



**PHILIPS**

Entertainment  
lighting

EMEA lighting and controls catalogue 2017



**Connected solutions**  
putting you in control

innovation ✨ you



At Philips Entertainment Lighting, we aspire to improve our customers' lives through meaningful innovation. We design every product to meet your professional entertainment lighting needs, and ultimately contribute to unforgettable experiences. We also enable people who facilitate these experiences; the lighting designers who use our products to inspire and innovate, and the dealers who share them.

The products and solutions in this catalogue vary from individual luminaires and controls to entire connected systems and intelligent networks. You can use them individually, or create combinations that work in harmony to enhance – but never upstage – your creative vision, whether you're illuminating a concert arena, a theater stage, a film and TV studio, a specialist exhibition space, or a mega club.

We continuously work to create innovative entertainment technology with quality end-user experiences. We are equally committed to providing quality customer experiences. We've refined our marketing to tie all four of our product ranges together, so you can easily navigate our offerings and find exactly what you need. This catalogue reflects the wider effort we've put into the redesigning of our website, and our continued commitment to improving every facet of the Philips Entertainment Lighting customer experience.

Grant Bales-Smith  
General Manager Entertainment Lighting EMEA





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We are a leading provider of professional entertainment luminaires, control and dimming for theater, television, events and concert touring. Our innovative products can be found on everything from the biggest global spectacles to the smallest school stages.

At Philips Entertainment Lighting we are dedicated to delivering end-user-driven products and solutions. From lighting fixtures to control and intelligent distributed networks, our thorough understanding of our customers' needs inspire every product. We strive to provide powerful yet discrete products that serve to enhance, yet never upstage, the creative vision. Our family of four industry-leading brands and product line is entirely compatible, offering a complete creative solution across all sectors, design requirements and budgets.

New lighting technologies such as LED, energy efficiency and sustainable manufacturing are at the forefront of our mission. Drawing on the heritage and expertise of our brands, our promise is to continue shaping and protecting the future of entertainment lighting.

## **PHILIPS** **VARI\*LITE**

Since introducing the modern automated luminaire more than 30 years ago, Philips Vari-Lite has become synonymous with spectacular rock and roll and large-scale event lighting.

We produce high performance, eco-friendly and internationally accessible tools that bring the creative vision of our customers to vibrant life across the globe.

With advanced optics, superior mechanics and unparalleled color mixing, our luminaires add subtle nuances and breath-taking effects to a broad spectrum of applications.

Today, Vari-Lite draws upon the vast resources of Philips Lighting and continues to develop pioneering products with unrivalled reputations.

## **PHILIPS** **Selecon**

The go-to lighting luminaires for the theater and specialised display lighting, Philips Selecon is dedicated to working towards a sustainable future whilst providing unparalleled creativity.

Our advanced range of tungsten and LED luminaires utilize proprietary Philips technology, balancing energy efficiency with truly stunning output. Selecon LED luminaires offer infinite color choices and unrivalled consistency, alongside super-smooth dimming and market leading optics.

Designers continually turn to Selecon to realise their creative visions.

**We love to be inspired by you,**  
understanding what makes you tick.  
Others may focus on innovation.  
**We focus on what it does for you.**

## PHILIPS

### Strand Lighting

One of the most significant names in the world of entertainment lighting and control, Philips Strand Lighting has continually shaped the lighting landscape since its inception a century ago.

Today, our much-loved brand is introducing a new chapter in the evolution of control with a highly innovative and exciting range of products.

These compact yet sophisticated tools are undeniably worthy successors to a proud history of iconic consoles, offering designers fast, accurate control solutions that develop alongside their ever-evolving needs.

### Showline

At the forefront of entertainment lighting, Showline are the ideal eye-candy or wash and effects tools to make your design pop.

At the heart of Showline's LED products is Philips harmonize calibration technology; a proprietary, advanced color-matching system that offers designers unparalleled consistency across the products and therefore a complete creative solution. This ensures our LED luminaires operate seamlessly, fixture-to-fixture, to match color, dimming and operation, whether washing a TV studio set with stunning color or delivering dynamic strobe effects in an immersive party environment.



# Understanding **delivering**



# your challenges solutions

Lighting design is an art form – the stage is the canvas and lighting is the tool with which each mood and scene is cast.

## **Theater**

Lighting influences and excentuates moods, feelings and emotions through color, direction, intensity, form and movement. It is an art form – creating both natural and unnaturalistic scenes and environments – guiding the audience seamlessly through a story.

## **Television**

Light in television sculpts, it adds depth and perspective to the scene. It is as critical in directing the audiences' attention or influencing their emotions, just as any camera movement, acting or editing does.

## **Live events**

Before the show, an audience experiences that thrilling moment just as the lights go down. From beginning to end, their heightened visual senses immerse and include them, making it a truly unforgettable experience.

## **Architainment**

Creating direction and interest, making people look and interpret objects in a different light, is an essential consideration. Visually enhancing static pieces of art and buildings. Transforming environments by manipulating surfaces, bringing them to life with color and movement.

# At Philips, we energy efficie

Through our integrated product portfolio and by inspiring individuals to make simple changes that can have profound results. We seek to facilitate new solutions for change to drive responsible practices and have long focused on the energy efficiency of our products and production processes.

## **Invent**

Together we share the drive to invent new solutions, and create new technologies. Our focus is creating energy saving, efficient, safe, intuitive tools that respond to the challenges of each project, effectively and responsibly.

## **Control**

Integration is the key to control – from the development of core technologies through to the delivery of complete solutions. We strive for a model of open innovation that puts our customers and their needs at the center of our design processes.



# meet the nyc challenge

## **Light**


Light is at the center of everything we do. We make light to engage, entertain, and inspire in galleries, museums, theaters, concert venues and retail spaces around the world.

## **Move**

Our collective goal is to deliver unsurpassed product and service experiences for our customers, so they can create unique and engaging experiences for their audiences.



# Embracing a new dawn



Philips has embraced LED technology to deliver unique energy-efficient solutions for all applications. Our LED luminaires are designed to meet the needs of any lighting designer, whether they desire clean, focused light for performers, subtle color washes for scenic and display elements, or color saturated show stopping effects.

Our luminaires deliver energy efficiency with lower power consumption and significant reductions in heat that affect the physical space, performers and all objects being illuminated; all without any decrease in performance.

“Philips Entertainment Lighting are continually investing in new technologies and product development, to offer customers products which are energy efficient, connective and of the highest performance specification.

We have a comprehensive product development schedule which will see new generation products being introduced to the market over the coming year. There are some exciting, cutting edge game changers which we believe will once again revolutionize the entertainment lighting industry - in the same way that Philips Vari-Lite did in the 1980s with the first automated lights - strengthening Philips Lighting’s position as the world’s number one lighting company.”


Alex Nicu

R&D Group Manager Global Entertainment



**Inspired**  
by light

**creating**  
great



Light is all around us in many forms – both natural and artificial. A simple sunrise or sunset can evoke a sense of optimism or calm; the magical Northern Lights; firework displays or live concerts where music and light immerse the audience – these are all forms of light which inspire us.

The Philips Entertainment Lighting team have been working closely with customers to understand what inspires them so we can inspire others by offering the ultimate tools to create great experiences.

# experiences

# Creating extraordinary

From the smallest of stages to the most ambitious of professional venues, Philips Entertainment Lighting is here to light up your show, helping you create a perfect performance.

That's why we've now brought together our renowned portfolio of luminaires, control and dimming systems at [philips.com/entertainmentlighting](http://philips.com/entertainmentlighting). As well as being your go-to resource for product info and latest news, you can now also search for lighting solutions by experience.

Whether it's proscenium, transverse or in the round 'On Stage' looks at the dynamic lighting of theater, stand-up comedy and fashion shows to name but a few. 'On show' - when architecture and entertainment intertwine to turn ordinary spaces into extraordinary projects. 'On air' explores on-location and studio film and television lighting around the world. The most prestigious concerts 'On tour', and renowned festivals are what makes our live event industry so vivid. 'On display' showcases how spaces like art galleries and museums ensure their works of arts are shown off in the best light. And finally 'In control', where we discuss the all-important connectivity of lighting that brings all of these experiences to life.

The site features all our portfolios. Philips Vari-Lite, a staple for large-scale rock concerts and able to deliver breathtaking effects. Philips Selecon, the perfect choice when you want to make a medium-sized theater or studio home to a big and memorable experience. Philips Strand Lighting is constantly evolving to build on its distinguished heritage in both luminaires and controls. If color consistency and luminosity is what you are looking for, Showline will always deliver.

You can see them all in action in our 'highlights' section – a collection of stunning in-use examples from Niagara Falls to Justin Bieber. Four choices, but one critical objective: perfect performance every time.



# experiences online



Discover more today at [philips.com/entertainmentlighting](http://philips.com/entertainmentlighting)

Key to symbols:

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Theaters



Stadia  
Arenas



TV and film studios  
On location



Building facades  
Foyers



Museums  
Showrooms



Shopping mall  
Retail park concourses



Clubs  
Bars



Places of worship

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# Stage lighting

Stage and theater lighting influences and accentuates moods, feelings and emotions through color, direction, intensity, form and movement. It is an art form – creating both natural and unnaturalistic scenes and environments – guiding the audience seamlessly through a story.

Zorba! New York City Center

Lighting designer: Ken Billington

Photography: Joan Marcus



# Selecon and Showline deliver crucial **LED versatility** on The Addams Family

Philips' innovative LED lighting swings play from delicate to flamboyant and from the moody to intimate in an instant.

Philips Selecon and Showline LED luminaires have performed a range of crucial lighting roles whilst complementing a traditional tungsten rig on macabre musical The Addams Family at the John McIntosh Arts Theatre in London.

The Wimbledon Light Operatic Society production was based on an original story by Jersey Boys authors Marshall Brickman and Rick Elice, which has been described as an 'off-beat take on 19th century gothic'. The plot line is a ghoulish romp, involving ancestors of the family making their annual visit from the grave only for chaos to ensue.

Lighting designer Paul Flook's theatrical brief was to differentiate between the living and dead characters using colored light. He added 10 Selecon PLprofile1 luminaires, four PLCyc1 luminaires and eight Showline SL WASH 180 movers to a basic rig, creating a versatile mix of traditional and LED fixtures.

"I wanted to be able to separate the ancestors from the rest of the 'live' cast as the action moved," explains Flook. "With the SL WASH 180's great optics I was able to track and focus wherever I needed with ease."



The Addams Family, John McIntosh Arts Theatre, London

Lighting designer: Paul Flook

Photography: David Croft

Each play and venue comes with challenges. For this musical, a large wing space and fly bar was needed to allow for major set changes, however, for this play lighting was used to convey location changes through his lighting whilst also tracking the actors' movements.

"With the SL WASH 180 fixtures I could split the visual picture during the course of the action. They allowed me to wash an area of the stage in traditional colors to evoke a particular setting whilst simultaneously highlighting the 'ancestors' in contrasting moody hues," continues Flook.

The Philips luminaires were also applied to create looks that swung from the moody and intimate to the bold and vibrant during some of the bigger musical numbers.


"The PL1 series allowed me to switch from delicate to flamboyant in an instant with its color pallet, which rivals traditional tungsten colorizing across the majority of hues," says Flook. "To apply a full rig of traditional lanterns in the same way as we used the Philips fixtures, would have been power, weight and space hungry, so adding LED to the mix was the ideal solution."



# Profiles




Variable or fixed beam, precise control and shaping of the beam using integral shutter masks. Excellent image pattern projectors.

	PLprofile1 MKII	PLprofile4 MKII
		
Source	LED	LED
Wattage	120W (max)	480W (max)
Lamp cap	–	–
CRI	>80 @ 4000K white LED only	>80 @ 4000K white LED only
Color temperature	2900-9060K	2900-9060K
Beam angle	18-34° 24-44°	–
Typical usable distance	4-6m	6-12m
Lens tubes	N/A	Fixed: 14° / 19° / 26° / 36° / 50° Zoomspots: 15-35° / 25-50°
Shutters	4 adjustable	4 rotatable
Lens size	N/A	N/A
Gobo size	M	B
Color frame size	125 x 125mm	158 x 158mm
Controls	DMX512-A / RDM	DMX512-A / RDM
Control modes	15 channels (16-bit) 9 channels (8-bit) 5 channels (8-bit)	15 channels (16-bit) 9 channels (8-bit) 5 channels (8-bit)
Cooling	Fan	Fan
Top box unit	Supplied with Philips intelligent cable management system. A single cable that connects to a yoke-mounted top box, with powerCON in & out and DMX in and out sockets	Supplied with Philips intelligent cable management system. A single cable connects to a yoke-mounted top box, with powerCON in and out and DMX in and out sockets
Cooling control	Quiet / normal / high	Quiet / normal / high
Accessories	18-34° lens tray 24-44° lens tray Spare top box assembly Rotatable gobo holder – steel gobos Rotatable gobo holder – glass gobos Iris	Spare top box assembly
Operating voltage	100-240VAC (auto-ranging)	100-240VAC (auto-ranging)
Frequency	50/60Hz	50/60Hz
Current draw	1.2A (120VAC) 0.6A (240VAC)	4.5A (120VAC) 2.3A (240VAC)
Total power consumption	140W	541W
Quiescent load	7W standby mode	20W standby mode <500mW power save mode
IP rating	IP20	IP20
Operating temperature	0-40°C	0-40°C
Finish	Black	Black
Construction	Extruded aluminium, sheet metal, and molded engineering grade plastic components	Extruded aluminium, sheet metal, and molded engineering grade plastic components
Dimensions H x W x L	405 x 310 x 665mm	414 x 328 x 835mm
Weight	8.5kg luminaire and top box	12.8kg luminaire and top box
Warranty	3 years	3 years





Acclaim Axial Zoomspot MKII	SPX Ellipsoidal
	
GKV / GLB tungsten (not supplied)	GKV / GLB tungsten (not supplied)
600W	600W / 800W
G9.5	G9.5
N/A	N/A
N/A	N/A
18-34° 24-44°	10° 14° 19° 26° 36° 50° 15-35° 25-50°
8-12m	8-28m
N/A	N/A
4 adjustable	4 rotatable
N/A	N/A
M	B
125 x 125mm	158 x 158mm
Dimmable	Dimmable
N/A	N/A
Convection	Convection
N/A	N/A
N/A	N/A
18-34° lens tray 24-44° lens tray Iris Rotatable pattern holder Lens safety mesh	Fixed beam lens tubes: 10° / 14° / 19° / 26° / 36° / 50° Zoomspot lens tubes: 15-35° / 25-50° Rotatable gobo holder: steel gobos / glass gobos Iris Lens safety mesh
220-240VAC	220-240VAC
50/60Hz	50/60Hz
N/A	N/A
600W	800W / 600W
N/A	N/A
IP20	IP20
N/A	N/A
Black	Black
Pressure die-castings and aluminium extrusions	Pressure die-castings, aluminium extrusions and engineering grade plastic components
365 x 300 x 520mm	412 x 327 x 700mm (max)
5.6kg	8.3kg
3 years	3 years

## Fresnels

Lens luminaire with a soft edged variable beam that blends easily with others for even, controlled area illumination.

	PLfresnel1 MKII	Rama LED Fresnel MKII	Acclaim Fresnel
			
Source	LED	LED	Tungsten (lamp not supplied)
Wattage	120W (max)	90W	500W / 650W
Lamp cap	–	–	GY9.5
CRI	>80 @ 4000K white LED only	96 94	N/A
Color temperature	2900–9060K	3100K 5600K	N/A
Beam angle	15–54°	7–50°	6–60°
Typical usable distance	Up to 5m	Up to 8m	6–8m
Lens tubes	N/A	N/A	N/A
Shutters	N/A	N/A	N/A
Lens size	Ø100mm	Ø175mm	Ø110mm
Gobo size	N/A	N/A	N/A
Color frame size	125 x 125mm	186 x 190mm	125 x 125mm
Controls	DMX512-A / RDM	DMX512-A / RDM	Dimmable
Control modes	15 channels (16-bit) 9 channels (8-bit) 5 channels (8-bit)	2 channels (16-bit) 1 channel (8-bit)	N/A
Cooling	Fan	Fan	Convection
Top box unit	Supplied with Philips intelligent cable management system. A single cable that connects to a yoke-mounted top box, with powerCON in and out and DMX in and out sockets	N/A	N/A
Cooling control	Quiet / normal / high	Quiet / normal / high	N/A
Accessories	Spare top box assembly Barndoor	Barndoor Pan / tilt pole operation kit	Barndoor Lens safety mesh
Operating voltage	100–240VAC (auto-ranging)	220–240VAC (auto-ranging)	220–240VAC
Frequency	50/60Hz	50/60Hz	50/60Hz
Current draw	1.2A (120VAC) 0.6A (240VAC)	0.5A (230VAC)	N/A
Total power consumption	140W	94.5W	500W / 650W
Quiescent load	7W standby mode	5W standby mode	N/A
IP rating	IP20	IP20	IP20
Operating temperature	0–40°C	0–40°C	N/A
Finish	Black	Black	Black
Construction	Extruded aluminium, sheet metal, and molded engineering grade plastic components	Die-cast aluminium and molded engineering grade plastic components	Pressure die-castings and aluminium extrusions
Dimensions H x W x L	342 x 208 x 445mm	434 x 296 x 431mm	298 x 217 x 326mm
Weight	5.2kg luminaire and top box	8.4kg	3.3kg
Warranty	3 years	3 years	3 years



Rama 150 Fresnel	Rama 175 HP Fresnel	Arena Fresnel	Arena HP Fresnel
			
Tungsten (lamp not supplied)	Tungsten (lamp not supplied)	Tungsten (lamp not supplied)	Tungsten (lamp not supplied)
1,000W / 1,200W	1,000W / 1,200W	2,000W 2,500W	2,000W 2,500W
GX9.5 G22	GX9.5 G22	GY16 G22	GY16 G22
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
7-50°	7-56°	7-60°	9-56°
8-12m	10-14m	12-20m	12-24m
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
Ø150mm	Ø175mm	Ø200mm	Ø250mm
N/A	N/A	N/A	N/A
186 x 190mm	186 x 190mm	245 x 245mm	280 x 305mm
Dimmable	Dimmable	Dimmable	Dimmable
N/A	N/A	N/A	N/A
Convection	Convection	Convection	Convection
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
Barndoor Lens safety mesh	Barndoor Lens safety mesh	Barndoor Lens safety mesh	Barndoor Lens safety mesh
220-240VAC	220-240VAC	220-240VAC	220-240VAC
50/60Hz	50/60Hz	50/60Hz	50/60Hz
N/A	N/A	N/A	N/A
1,000W / 1,200W	1,000W / 1,200W	2,000W / 2,500W	2,000W / 2,500W
N/A	N/A	N/A	N/A
IP20	IP20	IP20	IP20
N/A	N/A	N/A	N/A
Black	Black	Black	Black
Pressure die-castings and aluminium extrusions	Pressure die-castings and aluminium extrusions	Pressure die-castings and aluminium extrusions	Pressure die-castings and aluminium extrusions
405 x 290 x 370mm	405 x 290 x 370mm	450 x 365 x 400mm	450 x 365 x 464mm
5.3kg	5.3kg	10.3kg (max)	10.3kg
3 years	3 years	3 years	3 years

## PCs

Lens luminaire delivering a crisp edged beam which adjusts easily from a defined spot for dramatic highlights to flood beam for controlled area illumination.

	Acclaim PC	Rama 150 PC	Rama 175 HP PC
			
Source	Tungsten (lamp not supplied)	Tungsten (lamp not supplied)	Tungsten (lamp not supplied)
Wattage	500W 650W	1,000W 1,200W	1,000W 1,200W
Lamp cap	GY9.5	GX9.5 G22	GX9.5 G22
CRI	N/A	N/A	N/A
Color temperature	N/A	N/A	N/A
Beam angle	4-64°	5-60°	4.5-60°
Typical usable distance	Up to 12m	Up to 24m	Up to 26m
Lens size	Ø110mm	Ø150mm	Ø175mm
Color frame size	125 x 125mm	186 x 190mm	186 x 190mm
Control	N/A	N/A	N/A
Control modes	Dimmable	Dimmable	Dimmable
Cooling	Convection	Convection	Convection
Cooling control	N/A	N/A	N/A
Accessories	Barndoor Lens safety mesh	Barndoor Lens safety mesh	Barndoor Lens safety mesh
Operating voltage	220-240VAC	220-240VAC	220-240VAC
Frequency	50/60Hz	50/60Hz	50/60Hz
Current draw	N/A	N/A	N/A
Total power consumption	500W 650W	1,000W 1,200W	1,000W 1,200W
Quiescent load	N/A	N/A	N/A
IP rating	IP20	IP20	IP20
Operating temperature	N/A	N/A	N/A
Finish	Black	Black	Black
Construction	Pressure die-castings and aluminium extrusions	Pressure die-castings and aluminium extrusions	Pressure die-castings and aluminium extrusions
Dimensions H x W x L	298 x 217 x 358mm	405 x 290 x 480mm	405 x 290 x 480mm
Weight	3.5kg	6.9kg	7.2kg
Warranty	3 years	3 years	3 years

## Cycloramas

For color washes of cycloramas and backcloths; general area illumination.

### Arena PC



Tungsten (lamp not supplied)

2,000W  
2,500W

GY16  
G22

N/A

N/A

4.5-60°

Up to 32m

Ø200mm

245 x 245mm

N/A

Dimmable

Convection

N/A

Barndoor  
Lens safety mesh

220-240VAC

50/60Hz

N/A

2,000W  
2,500W

N/A

IP20

N/A

Black

Pressure die-castings and  
aluminium extrusions

450 x 365 x 476mm

10.3kg (max)

3 years

### PLcyc1 MKII



Source	RGBW LED
Wattage	120W
Lamp cap	–
CRI	>80 @ 4000K white LED only
Color temperature	2900-9060K
Beam angle	42° vertical 38° horizontal
Typical usable distance	Up to 5m
Lens size	N/A
Color frame size	N/A
Control	DMX512-A / RDM
Control modes	15 channels (16-bit) 9 channels (8-bit) 5 channels (8-bit)
Cooling	Fan
Cooling control	Quiet / normal / high
Accessories	–
Operating voltage	100-240VAC (auto-ranging)
Frequency	50/60Hz
Current draw	1.2A (120VAC) 0.6A (240VAC)
Total power consumption	140W
Quiescent load	7W standby mode
IP rating	IP20
Operating temperature	0-40°C
Finish	Black
Construction	Molded engineering grade plastic component, faceted aluminium reflector
Dimensions H x W x L	366 x 271 x 277mm
Optimum hanging centers	1.2m from cyc surface 1.2m on center spacing
Weight	3.4kg
Warranty	3 years

## Profiles: PLprofile1 MKII

The Philips Selecon PLprofile1 MKII is a variable beam luminaire combining precise high-output beam control and pattern projection using only 140W when at full output.

An innovative combination of LED source technology and precision optical design, the PLprofile1 MKII is available in 18–34° or 24–44° beam angles while offering the performance of a 500W profile fixture.



### Product specification

Light source	Color temp	Wattage	Beam	DMX modes	Shutters	Gobo size	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
LED	RGBW 2900-9060K	120W	18–34°	Simple 8-bit 8-bit 16-bit	4 adjustable	M	125 x 125mm	Black	405 x 310 x 665mm	8.5kg	PLZS1MKII-1834-03
LED	RGBW 2900-9060K	120W	24–44°	Simple 8-bit 8-bit 16-bit	4 adjustable	M	125 x 125mm	Black	405 x 310 x 665mm	8.5kg	PLZS1MKII-2444-03

### Accessories

	Finish	Order Code
18–34° lens tray	Black	15ACAX1834LT
24–44° lens tray	Black	15ACAX2444LT
Spare top box (interconnect) assembly		PLICB
Rotatable gobo holder – steel M sizes gobos	Black handle	15ACGH
Rotatable gobo holder – glass M sizes gobos	Black handle	15ACGHGL
Iris		15ACIRIS
USB luminaire software programing kit, c/w USB upload cable & carry bag		PEGASUS

### Features

- Delivers the performance of a 500W profile fixture with a maximum power consumption of 140W.
- Available in 18–34° or 24–44° beam angles.
- Interchangeable lens tray between medium and wide angle versions.
- Slot provided for iris, M-size pattern holder, or third party effect accessory.
- Infinite color choices from the RGBW engine and preset color temperatures.
- Homogenized fully mixed color output light, no multiple color shadows.
- Quick selection of warm white, cool white, and daylight.
- User-defined on-board presets states available to record your color composition.
- Color presets simplifies matching other light sources.
- Constant color balance down to very low light levels irrespective of intensity setting.
- DMX512-A / RDM input/output with 8 or 16-bit resolution and a simple 5-channel control.
- RDM controls and setup of fixture allows device settings to be configured remotely.
- On-board LCD menu is updated for ease of luminaire set-up and addressing.
- No ultra-violet (wavelengths of less than 400nm) – for UVA, B or C or the infrared spectrum (wavelengths of more than 775nm).
- powerCON in and DMX data in and through connectors included on the top box (PLICB).
- Three year limited warranty.

### Options available on request:

Finishes White

### Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)

# Profiles: PLprofile4 MKII

The Philips Selecon PLprofile4 MKII is a high output interchangeable modular profile luminaire base, supporting a wide range of rotatable lens tubes.

The innovative combination of LED source technology and precision optical design, allows for lens tubes with a range of both zoom and fixed angle options. The rotatable barrel gives 360° adjustment allowing shutter cuts and gobos to be orientated where desired. A newly introduced power feature enables the unit to save even more power when not in use, further reducing its carbon footprint.



## Product specification

Light source	Color temp	Wattage	Beam	DMX modes	Shutters	Gobo size	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
LED	2900-9060K	480W	–	Simple 8-bit 8-bit 16-bit	4 rotatable	B	158 x 158mm	Black	414 x 328 x 835mm	12.8kg	PLPF4MKII-03

## Lens tubes – order additionally

	Order Code
14° fixed beam lens tube	SPX14LT
19° fixed beam lens tube	SPX19LT
26° fixed beam lens tube	SPX26LT
36° fixed beam lens tube	SPX36LT
50° fixed beam lens tube	SPX50LT
15-35° zoomspot lens tube	SPX1535LT
25-50° zoomspot lens tube	SPX2550LT

## Accessories

	Finish	Order Code
Universal lens tube adapter (for other lens tube suppliers)		PLPF4ULTA
Spare top box (interconnect) assembly		PLICB
20 leaf iris		20IRIS
Gobo holder – metal B size gobos		SPXGHB
Gobo holder – glass B size gobos		SPXGHGB
Replacement color frame 158mm square	Black	19SPXCF
USB luminaire software programming kit, c/w USB dongle, QuickStart guide cable & carry bag		PEGASUS

## Features

- Four RGBW LED array deliver limitless color mixing and variable color temperature.
- Seven optical systems.
- All lens tubes are interchangeable and can be ordered separately. 360° barrel rotation.
- Infinite color choice from the RGBW engines supporting color temperatures from 2900K to 9060K in white.
- Homogenized fully mixed color output light, no multiple color shadows.
- Quick selection of warm white, cool white, and daylight.
- Color presets simplifies matching other light sources.
- User-defined on-board presets states available to record your color composition.
- Constant color balance down to very low light levels irrespective of intensity setting.
- DMX512-A / RDM input/output with RDM.
- On-board LCD menu for ease of luminaire set-up and addressing.
- No ultra-violet (wavelengths of less than 400nm) – for UVA, B or C or the Infrared spectrum (wavelengths of more than 775nm).
- powerCON in and DMX data in and through connectors included on the top box (PL1CB).
- Three year limited warranty.

## Options available on request:

Finishes White

## Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)

# Profiles: Acclaim Axial Zoomspot MKII

The Philips Selecon Acclaim Axial Zoomspot MKII is a 600W variable beam profile with precise beam control and pattern projection from a high output beam.

Easy to use, it offers efficiency, strength and performance with a choice of two beam angle ranges. Ideal for small to medium sized theaters.



## Product specification

Light source	Lamp cap	Wattage max.	Beam	Shutters	Gobo size	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	G9.5	600W	18-34°	4 adjustable	M	125 x 125mm	Black	365 x 300 x 520mm	5.6kg	12ACX1834
Tungsten	G9.5	600W	24-44°	4 adjustable	M	125 x 125mm	Black	365 x 300 x 520mm	5.6kg	12ACX2444

## Accessories

	Order Code
18-34° lens tray	15ACAX1834LT
24-44° lens tray	15ACAX2444LT
Iris	15ACIRIS
Rotatable pattern holder	15ACGH
Lens safety mesh	15ACSM

## Features

- Available in 18-34° or 24-44° beam angles.
- Interchangeable lens tray between medium and wide versions.
- Beam adjustable from smooth, flat beam for pattern projections to high intensity peak distribution for stage washes.
- Unique easy to use and precise adjustable beam peak-flat mechanism.
- Captive shutters offering wider degree of masking angles.
- Cool beam to protect color filters.
- Slot provided for iris or rotatable (35°) pattern holder.
- 'Swing-down' doors for easy access to lens cleaning.
- Mains isolation via micro-switch when back is removed for lamp changes.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Profiles: SPX Ellipsoidal

The Philips Selecon SPX Ellipsoidal is a precision ERS luminaire delivering the highest efficiency combined with performance excellence, user-friendly operational and integral safety features.

Optically versatile, can be transformed with a myriad of lens tubes and utilized in various large and small stage applications.



## Product specification

Light source	Lamp cap	Wattage max.	Beam	Shutters	Gobo size	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	G9.5	800W	10°	4	B	245 x 245mm	Black	410 x 330 x 886mm	12.5kg	SPX10
Tungsten	G9.5	800W	14°	4	B	158 x 158mm	Black	412 x 327 x 700mm	8.3kg	SPX14
Tungsten	G9.5	800W	19°	4	B	158 x 158mm	Black	412 x 327 x 610mm	8.3kg	SPX19
Tungsten	G9.5	800W	26°	4	B	158 x 158mm	Black	412 x 327 x 570mm	8.3kg	SPX26
Tungsten	G9.5	800W	36°	4	B	158 x 158mm	Black	412 x 327 x 550mm	8.3kg	SPX36
Tungsten	G9.5	800W	50°	4	B	158 x 158mm	Black	412 x 327 x 500mm	8.3kg	SPX50
Tungsten	G9.5	800W	15-35°	4	B	158 x 158mm	Black	412 x 327 x 670mm	8.3kg	SPX1535
Tungsten	G9.5	800W	25-50°	4	B	158 x 158mm	Black	412 x 327 x 580mm	8.3kg	SPX2550

## Accessories

	Finish	Order Code
14° fixed beam lens tube	Black	SPX14LT
19° fixed beam lens tube	Black	SPX19LT
26° fixed beam lens tube	Black	SPX26LT
36° fixed beam lens tube	Black	SPX36LT
50° fixed beam lens tube	Black	SPX50LT
15-35° zoomspot lens tube	Black	SPX1535LT
25-50° zoomspot lens tube	Black	SPX2550LT
20 leaf iris		20IRIS
Gobo holder – metal B size gobos		SPXGHB
Gobo holder – glass B size gobos		SPXGHGB
Lens safety mesh		19PACSMFB
Replacement color frame 158mm square	Black	19SPXCF

## Features

- Up to 27% more efficient than current industry benchmark units.
- Fully adjustable beam distribution from flat to true peak field.
- Seven optical systems: 15-35° and 25-50° zoomspots; 14°, 19°, 26°, 36° and 50° fixed beams.
- Interchangeable lens tubes which can be ordered separately.
- Designed to manage the power and heat from high output tungsten halogen 800W sources.
- More light and high contrast pattern projections - fully adjustable beam distribution from peak (3:1) to flat (2:1) using intuitive adjustment solution.
- Precise positioning with rigid molded yoke, shutter clamp lock, and reference scales on tilt, lens and lens tube angle settings.
- Compartmental heat management system exhausts the heat away from the critical lamp socket and cabling to minimise heat damage.
- Minimal light spill with enclosed front color frame / accessory holder.
- Dual accessory slots for simultaneous use of 'B' size gate patterns, rotators and irises.
- 360° barrel rotation.
- Mains isolation via micro-switch for maximum safety while re-lamping.
- Fitted safety bond.
- Ease of maintenance – full access to all lens surfaces for cleaning.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)

# Selecon PLprofile1 breathe life into **Madame Tussaud's New York**

At the Madame Tussaud's, New York City, lighting designer Herrick Goldman created a colorful and powerful design for the new "Music Experience" installation using thirteen PLprofile1 LED luminaires, stating that he chose the fixtures due to their tunable whites and how "they bring the figures to life".





# Fresnels: PLfresnel1 MKII

The Philips Selecon PLfresnel1 MKII is a general-purpose lighting fixture for theater, small studio and display lighting applications. It produces an adjustable cone of light with a soft edge, which blends easily with adjacent beams to provide even illumination.

Available with a 15–54° variable beam angle, the PLfresnel1 MKII delivers the performance of a 500W fresnel fixture with a power consumption of only 140W.



## Product specification

Light source	Color temp	Wattage	Beam	DMX modes	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
LED	RGBW 2900–9060K	120W	15–54°	Simple 8-bit 8-bit 16-bit	100mm	125 x 125mm	Black	342 x 208 x 445mm	5.2kg	PLFR1MKII-03

## Accessories

	Finish	Order Code
Spare top box (interconnect) assembly		PLICB
4 leaf barndoor	Black	20BDMF
USB luminaire software programming kit, c/w USB upload cable & carry bag		PEGASUS

## Features

- Delivers the performance of a 500W fresnel fixture with a maximum power consumption of 140W.
- Variable beam angle from 15–54°.
- Infinite color choice from the RGBW engine and color temperatures in white.
- Homogenized fully mixed color output light, no multiple color shadows.
- Quick selection of warm white, cool white, and daylight.
- User-defined on-board preset states available to record your color composition.
- Color presets simplifies matching other light sources.
- Constant color balance down to very low light levels irrespective of intensity setting.
- DMX512-A / RDM input/output with 8 or 16-bit resolution and a simple 5-channel control.
- RDM controls and setup of fixture allows device settings to be configured remotely.
- On-board LCD menu is updated for ease of luminaire set-up and addressing.
- No ultra-violet (wavelengths of less than 400nm) – for UVA, B or C or the infrared spectrum (wavelengths of more than 775nm).
- powerCON in and DMX data in and through connectors included on the top box (PL1CB).
- Three year limited warranty.

## Options available on request:

Finishes White

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Fresnels: Rama LED Fresnel MKII

The Philips Selecon Rama LED Fresnel MKII is our leading go to theatrical LED fresnel. Available in two color temperatures of 3100K and 5600K, the LED engine offers the benefit of significant energy efficiency savings over traditional 1kW tungsten fixtures, whilst not losing performance.

Its light source, with a soft edge and no multiple shadows or fringing allows it to be easily blended with adjacent beams to create even illumination.



## Product specification

Light source	Type	Color temp	Wattage	Beam	DMX modes	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
LED	Manual	3100K	90W	7-50°	8-bit 16-bit	175mm	186 x 190mm	Black	434 x 296 x 431mm	8.4kg	16RAFR175LED3100MO
LED	Manual	5600K	90W	7-50°	8-bit 16-bit	175mm	186 x 190mm	Black	434 x 296 x 431mm	8.4kg	16RAFR175LED5600MO

## Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDRA
Pan / tilt pole operation kit		RAMALEDPTYKIT

## Features

- Homogenized fully mixed white light with no multiple shadows or fringing.
- No need for lamp or color filter replacement.
- No need for dimmers, connect directly to mains supply.
- DMX512-A / RDM input/output with 8 or 16-bit resolution.
- Quiet active cooling system.
- On-board LCD menu for ease of addressing / setup / manual operation.
- Integrated safety bond.
- Adjustable yoke balance point.
- 'Swing-down' door for easy access for cleaning.
- Disconnects the mains power supply on opening.
- Smooth 'posi-slide' focus system, no metal to metal contact.
- Constructed from aluminium extrusion and moulded engineering plastics.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)

# Fresnels: Acclaim Fresnel

The Philips Selecon Acclaim Fresnel is a 6°-60° 500W / 650W general purpose fresnel with a 110mm diameter lens, for theater, small studio and display lighting applications. The fixtures produce an adjustable cone of light with a soft edge that is easily blended with adjacent beams to provide even illumination.



## Product specification

Light source	Lamp cap	Wattage	Beam	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	GY9.5	500W 650W	6-60°	110mm	125 x 125mm	Black	298 x 217 x 326mm	3.3kg	12ACFMS

## Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDMF
Lens safety mesh		15ACSM
Spare color frame		20CFMF

## Features

- Up to 40% more light output than other fresnels.
- Improved filter life through increased airflow.
- Cooler focus operation due to the use of engineering plastics on front (color frame mount) and rear.
- Adjustable yoke balance point.
- 'Swing-down' side door for easy access to lamp or for cleaning.
- Lamp life is enhanced through judder-free focus action of the captive lamp/reflector assembly which moves on Teflon-coated bearings.
- Heat-insulated rear grab-handle which doubles as handy storage for the 3ft cable length.
- Barndoor design, cool to focus maintaining settings through unique hinge tension design.
- Focusing is fast and safe using the large rear grab handle, heat protected focus knob and filter holder.
- Constructed of aluminium extrusion and moulded engineering plastics – robust, dependable, safe and easy to rig.
- Permanently attached integrated safety cable ensures that this important safety requirement is always on hand.
- Integral micro-switch provides automatic power disconnection to the fixture when opening to relamp, preventing a student or technician inserting a lamp into an electrically live fixture.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Fresnels: Rama 150 Fresnel and Rama 175 HP Fresnel

The Philips Selecon Rama 150 Fresnel & Rama 175 HP Fresnel have a strong heritage in theaters worldwide.

These tungsten source luminaires are stable workhorses providing the performance and aesthetic standards on which the LED versions were developed.



## Product specification

Light source	Type	Lamp cap	Wattage	Beam	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	Rama 150 Fresnel	GX9.5	1000W 1200W	7-50°	150mm	186 x 190mm	Black	405 x 290 x 370mm	5.3kg	16RAFR150
Tungsten	Rama 150 Fresnel	G22	1000W 1200W	7-50°	150mm	186 x 190mm	Black	405 x 290 x 370mm	5.3kg	16RAFR150G22
Tungsten	Rama 175 HP Fresnel	GX9.5	1000W 1200W	7-56°	175mm	186 x 190mm	Black	405 x 290 x 370mm	5.3kg	16RAFR175
Tungsten	Rama 175 HP Fresnel	G22	1000W 1200W	7-56°	175mm	186 x 190mm	Black	405 x 290 x 370mm	5.3kg	16RAFR175G22

## Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDRA
8 leaf barndoor	Black	20BDRA8
Spare color frame		20CFSF12
Safety lens mesh		20SM6

## Features

- Integrated safety bond rated for the fitting – maximum free length of 670mm.
- Adjustable yoke balance point.
- 'Swing-down' door for easy access to lamp or cleaning. Disconnects the mains power supply on opening.
- Smooth 'posi-slide' focus system, no metal to metal contact.
- Constructed of aluminium extrusion and molded engineering plastics.
- Cooler operation due to use of engineering plastics on front (color frame mount) and rear of luminaire.
- Heat-insulated rear grab-handle which doubles as handy storage for the 1m cable length.
- Tilt and focus scale is in real degrees allowing for accurate WSIYWG implementation.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Fresnels: Arena Fresnel and Arena HP Fresnel

The Philips Selecon Arena Fresnels are predominantly used in large theater spaces providing an excellent beam quality with a well controlled flat even field with a distinct white-blue tint.

The Arena HP Fresnel offers a superior light output, strength and industry leading performance.



## Product specification

Light source	Type	Lamp cap	Wattage	Beam	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	Arena Fresnel	GY16	2000W	7-60°	200mm	245 x 245mm	Black	450 x 365 x 400mm	10.4kg	10SF2020GY16
Tungsten	Arena Fresnel	G22	2000W 2500W	7-60°	200mm	245 x 245mm	Black	450 x 365 x 400mm	10.4kg	10SF2025G22
Tungsten	Arena HP Fresnel	GY16	2000W	9-56°	250mm	245 x 310mm	Black	450 x 365 x 464mm	10.3kg	10SF2520GY16
Tungsten	Arena HP Fresnel	G22	2000W 2500W	9-56°	250mm	245 x 310mm	Black	450 x 365 x 464mm	10.3kg	10SF2525G22

## Accessories

	Finish	Order Code
Arena Fresnel 4 leaf barndoor	Black	20BDSF2020
Arena HP Fresnel 4 leaf barndoor	Black	20BDSF2025
Lens safety mesh		20SM25

## Features

- Leading performance for a theater fresnel with 200mm or 250mm diameter lens.
- Wide range of beam angles 7-60° or 9-56°.
- Integrated safety bond.
- Flat even beam with very little spill allows clean masking with barndoor.
- Adjustable yoke balance point.
- Swing-down door for easy access to lamp or lens.
- 'Cool touch technology' – rear moldings and large rear grab handle.
- Choice of GY16 lamp socket for CP72, 2.0kW lamp or G22 lamp socket for CP91 2.5kW or CP92 2.0kW lamp.
- 'Posi-slide' focus system with no metal to metal contact provides smooth focus movement.
- Effective airflow maintains lower body temperature.
- Constructed from pressure die-castings and aluminium extrusion.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# PCs: Acclaim PC

The Philips Selecon Acclaim PC is a 500W / 650W fixture used for specific highlights in spot or general area illumination for short throws or the smaller stage.



## Product specification

Light source	Lamp cap	Wattage	Beam	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	GY9.5	500W 650W	4-64°	110mm	125 x 125mm	Black	298 x 217 x 358mm	3.9kg	12ACPCMS

## Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDMF
Lens safety mesh		15ACSM
Spare color frame		20CFMF

## Features

- Up to 50% more light output than comparative PCs.
- A wide range of beam angles from 4-64°.
- Integrated safety bond.
- Light texturing on the rear of lens obscures filament imaging retaining the characteristic PC beam clarity.
- Improved filter life through increased airflow.
- Cooler focus operation due to the use of engineering plastics on front (color frame mount) and rear.
- Adjustable yoke balance point.
- 'Swing-down' side door for easy access to lamp or for cleaning.
- Micro-switch automatically isolates the mains power supply when opened.
- Lamps are quickly and safely removed using ejector mechanism.
- Lamp life is enhanced through judder-free focus action of the captive lamp/reflector assembly which moves on Teflon-coated bearings.
- Heat-insulated rear grab-handle which doubles as handy storage for the 1m cable length.
- Barndoor design, cool to focus maintaining settings through unique hinge tension design - retro-fittable.
- Focusing is fast and safe using the large rear grab handle and heat protected focus knob and filter holder.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)

# PCs: Rama 150 PC and Rama 175 HP PC

The Philips Selecon Rama PCs provide a great alternative and complementary products to profiles and fresnels for small to medium size spaces. With a crisp beam and minimal light scatter PCs provide superior control and light quality when needed.



## Product specification

Light source	Type	Lamp cap	Wattage	Beam	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	Rama 150 PC	GX9.5	1000W 1200W	5-60°	150mm	186 x 190mm	Black	405 x 290 x 480mm	6.9kg	16RAPC150
Tungsten	Rama 150 PC	G22	1000W 1200W	5-60°	150mm	186 x 190mm	Black	405 x 290 x 480mm	6.9kg	16RAPC150G22
Tungsten	Rama 175 HP PC	GX9.5	1000W 1200W	4.5-62°	175mm	186 x 190mm	Black	405 x 290 x 480mm	7.2kg	16RAPC175
Tungsten	Rama 175 HP PC	G22	1000W 1200W	4.5-62°	175mm	186 x 190mm	Black	405 x 290 x 480mm	7.2kg	16RAPC175G22

## Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDRA
Spare color frame		20CFSF12
Safety lens mesh		20SM6

## Features

- Adjustable yoke balance point.
- 'Swing-down' door for easy access to lamp or cleaning.
- Smooth 'posi-slide' focus system, no metal to metal contact.
- Constructed of aluminium extrusion and molded engineering plastics.
- Cooler operation due to use of engineering plastics on front (color frame mount) and rear of fixture.
- Heat-insulated rear grab-handle which doubles as handy storage for the 3-foot fixture supply cable.
- Tilt and focus scale is in real degrees allowing for accurate WSIWYG implementation.
- Permanently attached integrated safety cable ensures that this important safety requirement is always on hand.
- Integral micro-switch provides automatic disconnection of power to the fixture when opening to relamp.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)



## PCs: Arena PC

The Philips Selecon Arena PC is a high performance 200mm lens fixture which delivers a narrow 4.5° spot beam to a medium flood of 60° making it an excellent addition to stage lighting rigs for large spaces.



### Product specification

Light source	Lamp cap	Wattage	Beam	Lens Ø	Color frame size	Housing	Overall dimensions H x W x L	Weight	Order Code
Tungsten	GY16	2000W	4.5-60°	200mm	245 x 245mm	Black	450 x 365 x 476mm	10.3kg	10SPC20GY16
Tungsten	G22	2000W 2500W	4.5-60°	200mm	245 x 245mm	Black	450 x 365 x 476mm	10.3kg	10SPC25G22

### Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDSF2020
Lens safety mesh		20SM25

### Features

- Well controlled 'punchy' PC beam with little spill.
- Wide range of beam angle from 4.5° to 60°.
- Adjustable yoke balance point.
- 'Swing-down' door for easy access to lamp or cleaning. Isolates the mains supply when opened.
- Choice of GY16 lamp socket for CP72, 2.0kW lamp or G22 lamp socket for CP91 2.5kW or CP92, 2.0kW lamp.
- Smooth focus movement by 'posi-slide' focus system. No metal to metal contact.
- Constructed of pressure die-castings and aluminium extrusion.
- Effective airflow maintains lower body temperature.
- Three year limited warranty.

### Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)

# Cycloramas: PLcyc1 MKII

The Philips Selecon PLcyc1 MKII delivers smooth, even cyc lighting in a compact lightweight design using only 120W to illuminate drops up to five meters high with 1.2 meter spacing centers.

Each LED PLcyc1 MKII can replace the equivalent of a traditional 4-color tungsten 500W cyc luminaire, reducing your energy, transportation and set-up costs.



## Product specification

Light source	Color temp	Wattage	Beam	DMX modes	Finish	Overall dimensions H x W x L	Weight	Order Code
LED	RGBW 2900-9060K	120W	42° vertical 38° horizontal	Simple 8-bit 8-bit 16-bit	Black	366 x 271 x 277mm	3.4kg	PLCYC1MKII

## Accessories

	Order Code
USB luminaire software programing kit, c/w USB upload cable & carry bag	PEGASUS

## Features

- Delivers the performance of a 500W cyclight with a maximum power consumption of 140W.
- Infinite color choice from the RGBW engine supporting variable white color temperatures of 2900-9060K.
- Homogenized fully mixed color output light, no multiple color shadows.
- Asymmetrical beam distribution for lighting cycloramas up to 5m (16') high.
- Integral dimmer (0-100%) reduces intensity with minimal color shift maintaining the selected color balance.
- Quick selection of warm white, cool white, and daylight.
- Color presets simplifies matching other light sources.
- Simple spacing system.
- Kick stand yoke for top or floor mounting.
- DMX512-A / RDM input/output with 8 or 16-bit resolution and a simple 5-channel control.
- RDM for easy setup.
- powerCON in and through connectors.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

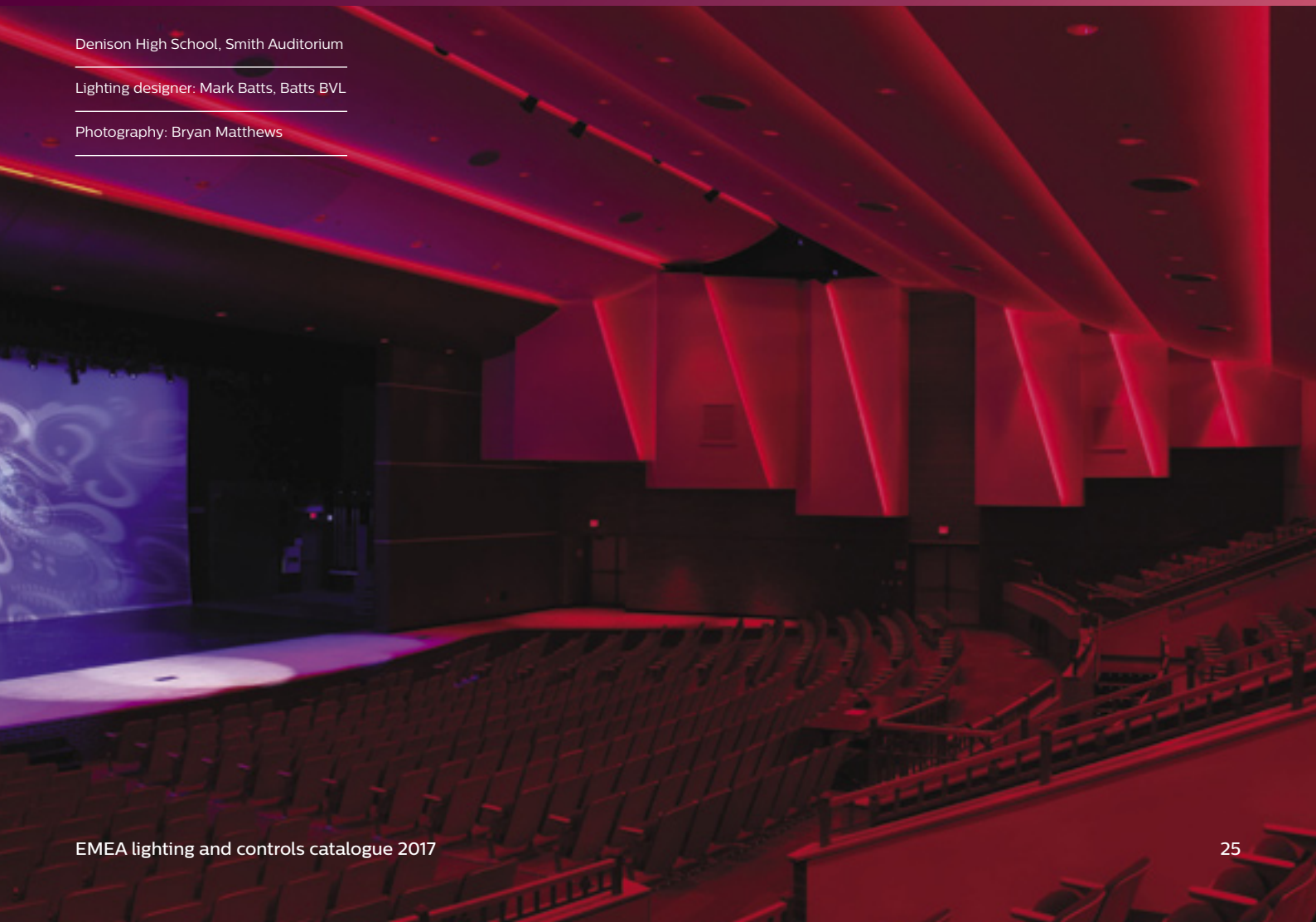
# House lights

Lights for illuminating the audience areas and transforming the ambient environment.

Denison High School, Smith Auditorium

Lighting designer: Mark Batts, Batts BVL

Photography: Bryan Matthews



# A complete creative solution **Smith Auditorium**

In many educational theater environments, students are confronted with the challenges of learning their craft on outdated equipment. But every so often, a school district gets the opportunity to create a performance space filled with the latest technologies available. Denison High School's newly created Smith Auditorium is a prime example, with its students now benefiting from a completely new lighting system comprising lighting, dimming and control from Philips Strand Lighting and Philips Selecon.

With funding for the project from the Smith Foundation in place, the school district called upon long-time and trusted supplier Batts AVL who curated and installed the complete package. This included control in the form of a Strand Lighting NEO console, R21 Raceways, an A21 Dimming Cabinet and an array of Philips PL series LED luminaires.

"When looking at the console for the new space, I knew the limitations of our old board and how we wanted things to be controlled differently," says Amy Jordan, Denison High School Theater Arts Department Chair. "Since we would be introducing quite a lot of LED intelligent lighting, it was imperative to find the right board that could not only run the new lighting system, but also not overwhelm the students at the same time."

Project Manager Mark Batts of Batts AVL agrees: "I personally love how easily the NEO handles intelligent LED functions, and it's much more intuitive than other consoles in organizing how you program these lighting technologies. In its control parameters, NEO is simply more expansive and it's a very impressive product."

"When I took the students into the booth to see the NEO for the first time, they were very eager to use it," continues Jordan. "They didn't necessarily want me to tell them how to use the desk, they just wanted to get in and use it for themselves. The NEO is that simple, yet powerful. The shortcuts are extremely intuitive and it doesn't take long to create extremely layered scenes."

With the lighting control in place, the focus turned to dimming, with the intention to provide Smith Auditorium the latest technology as well saving both valuable building space and installation costs.

Batts explained, "In the facility, The combination of the R21 distributive Dimming and the A21 Dimmer Rack seemed like a no-brainer because we were able to completely eliminate the need for a dimmer room, which saved on wiring costs and we were able to place the dimming in the performance area, saving us the 100-200 square feet that a traditional dimming closet would take up. In a new construction application where the value was approximately \$100 per square foot, the A21 dimming cabinet and R21 Raceways literally saved us thousands of dollars.

"We have six R21 Raceways in the design with two in the catwalk and then four more on stage. All of the R21 Raceways have mixed circuitry to control the dimming of conventional, switching of LED and Intelligent fixtures, and I really love the convenience of the focus button that is located on the strips. Plus, if needed in the future, we can change out modules from conventional to LED or Intelligent at any time."

Turning their attention to lighting the venue's myriad of performances, Batts decided to go all out with a full LED system that included PLprofile1, PLprofile4, PLcyc1 and PLfresnel1 luminaires.

"In the Smith Auditorium, the LED lighting is supplemented with traditional ellipsoidals and fresnels throughout the house and on stage," says Batts. "With the LED lighting, we needed to be able to color match with the traditional fixtures along with the automated luminaires, and the PLprofile4 with its tunable color temperature worked very well."

Jordan agrees, "I'm a designer by nature and I love the intensity of color from our new LED lighting. They are providing us with a power and vibrancy that we just don't get from traditional fixtures. We do a lot of isolated lighting, with pin spots and such, and the PLprofile4 luminaires work great for us doing exactly what we need. I also like to do deep colors with rich saturation and the LED colors really pop off the stage.

"In addition, the PLcyc1 luminaires have completely changed how we light our cyc and we no longer run out of gel, we just make the colors happen."

With the Smith Auditorium complete, the theater department at Denison High School now enjoys a beautiful and cutting-edge performance environment that also benefits the surrounding community.

# House lights

Lights for illuminating the audience areas and transforming the ambient environment.

## PL House Light LED MKII

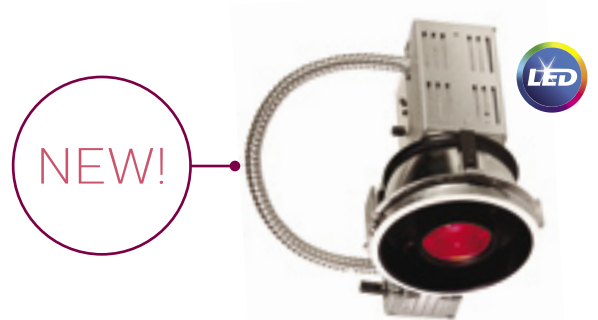


Source	RGBW LED
Wattage	120W (max)
Color temperature	2700-9000K
CRI	>80 @ 4000K white LED only
Beam angle	20-45°
Dimming	DMX512-A / RDM
DMX modes	15 channels (16-bit) 9 channels (8-bit) 5 channels (8-bit)
Cooling	Fan
Cooling control	Quiet / normal / full
Accessories	Slope adapter 5° Slope adapter 10° Slope adapter 15° Slope adapter 20° Slope adapter 25° Slope adapter 30°
Mounting	Recessed
Operating voltage	100-240VAC
Frequency	50/60Hz
Quiescent load	5W standby mode
Power draw	140W (max)
Ambient temperature	0-40°
IP Rating	IP20
Finish	White trim Black reflector
Construction	Aluminum and molded engineering grade plastic components, precision coated aspheric lenses
Dimensions D x H x W (maximum)	203 x 381 x 310mm
Weight	4.1kg
Warranty	3 years

# Downlights: PL House Light LED MKII

The Philips Selecon PL House Light LED MKII is a recessed downlight, with tunable color temperature 2700–9000K and full color mixing functionality.

Controllable via DMX and RDM, the PL House Light LED MKII complements the overall lighting design of a production giving designers the control and flexibility to immerse the audience in color.



## Product specification

Light source	Color temp	Wattage	Beam	DMX modes	Trim	Mounting	Overall dimensions Ø x H x D	Weight	Order Code
LED	2700–9000K	140W (max)	20–45°	Simple 8-bit 8-bit 16-bit	White	Recessed	203 x 381 x 310mm	4.1kg	PLHLIBMKII

## Accessories

	Order Code
5° slope adapter	PLHLSA5
10° slope adapter	PLHLSA10
15° slope adapter	PLHLSA15
20° slope adapter	PLHLSA20
25° slope adapter	PLHLSA25
30° slope adapter	PLHLSA30

## Features

- Fully tunable 2700K to 9000K.
- Adjustable 20–45° beam spread.
- Selection of slope adapters to suit various ceiling inclines.
- No ultra-violet (wavelengths of less than 400nm) – for UV – A, B or C on the infrared spectrum (wavelengths of more than 775nm).
- Full color mixing for creative flexibility.
- Complete color gamut with precise color mixing controls.
- Integral dimmer (0–100%) reduces intensity with minimal color shift maintaining the selected color balance.
- Quick selection of warm white, cool white and daylight color presets.
- RDM for easy setup.
- Universal input voltage 100–240VAC.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Studio and location lighting

Light in television sculpts, it adds depth and perspective to the scene. It's as critical in directing the audiences' attention or influencing their emotions, just as any camera movement, acting or editing does.

Thronecast, Sky TV

Lighting designer: Iain Davidson

Lighting supplier: Richard Martin Lighting



# Anchorman to actionman and everything inbetween lights for star quality

Philips Entertainment Lighting has an exciting new line-up of multi-talented fixtures for television studio and location lighting. Our strong heritage in producing camera ready fresnels and panel lights has extended to include softlights and weatherproof portable location fixtures. We have transitioned to LED technology but retained the required attributes and performance of tungsten.

Today's demands for camera ready lights has extended beyond the traditional studio or location set ups. More and more we are experiencing multi-platform transmissions – live opera and theater performances are now regularly recorded; the instantaneous, on the spot reporting with live streaming is now not only the norm but a given – this has all led to the need for fixtures which have excellent light quality, are versatile, adaptable, robust, economical and controllable.





## Panel lights

Adaptable, even light source that is versatile and functional, lightweight in construction and for the most part used for close-up, modelling and general lighting of subjects on camera.

## TV fresnels

Produce a fairly soft edged beam whose width is controlled by the spot/flood mechanism operated by moving the LED/reflector combination with respect to the lens. Used as a modelling light, keylight or backlight.

### Studio Panel MKII



Philips Selecon Studio Panel MKII is a compact, lightweight LED luminaire designed for both studio and location use. Available with a high TLCI rating in tunable white 3200-5600K or fixed whites 3200K and 5600K. The battery power input uses industry standard batteries and the Studio Panel MKII is available with a range of accessories.

### 200F



Philips Strand 200F is a medium power LED TV fresnel, providing the light output equivalent to a 1000W tungsten fresnel, designed specifically for TV broadcast lighting. A very high TLCI rating provides an excellent quality of light, perfect for the camera.

The range includes two color temperatures, 3200K and 5600K in both manual and pole operated formats. Perfect for studio use.

Source	LED	LED
Wattage	43W 41W 30W	180W (max)
Color temperature	3200K 5600K 3200-5600K	3200K 5600K
TLCI	94	96 95
Beam angle	50°	12-60°
Lens size	-	Ø175mm
Color filter size	-	Ø227mm
Dimming	Local DMX 8 or 16-bit	Local DMX 8 or 16-bit
Operating voltage	100-240VAC 12-24VDC (battery power)	220-240VAC (auto-ranging)
Frequency	50/60Hz	50/60Hz
Current draw	0.8 A (max.) @ 115V 0.4 A (max.) @ 230V	0.82A (max)
Power consumption	50W (max)	180W (max)
Ambient temperature	0-40°C	0-37°C
Cooling	Natural convection	Fan
Humidity	5-95% non-condensing	0-95% non-condensing
IP Rating	IP20	IP20
Finish	Black	Black
Construction	Die-cast aluminium	Aluminium extrusion and casting
Dimensions W x H x D (max.)	300 x 545 x 66mm	346 x 603 x 326mm
Weight	2.3kg	7.4kg (Manual operation) 7.9kg (Pole operation)
Warranty	3 years	2 years

## Softlights

Softlights are less controllable than fresnels but more subtle and less intense. They are designed to balance the lighting and to lessen the shadows on faces.

400F	150S	300S
 <p>NEW!</p> <p>Philips Strand 400F is a high power LED TV fresnel, providing the light output equivalent to a 2000W tungsten fresnel designed specifically for TV broadcast lighting. A very high TLCI rating provides an excellent quality of light, perfect for the camera.</p> <p>The range includes two color temperatures, 3200K and 5600K in both manual and pole operated formats. Perfect for larger studio use.</p>	 <p>NEW!</p> <p>Philips Strand 150S is a slimline LED studio softlight designed specifically for TV broadcast lighting. With a very high TLCI rating in excess of 94 and a consistent 3100K and 5600K soft, even, 50° beam output with quiet operation.</p>	 <p>NEW!</p> <p>Philips Strand 300S is a slimline, large LED studio softlight designed specifically for TV broadcast lighting. With a very high TLCI rating in excess of 94 and a consistent 3100K and 5600K soft, even, 50° beam output with quiet operation.</p>
LED	LED	LED
380W (max)	150W	300W
3200K 5600K	3100K 5600K	3100K 5600K
96 97	94 96	94 96
12-45°	50°	50°
Ø250mm	-	-
Ø320mm	585 x 238mm	555 x 415mm
Local DMX 8 or 16-bit	Local DMX 8 or 16-bit	Local DMX 8 or 16-bit
220-240VAC (auto-ranging)	220-240VAC (auto-ranging)	220-240VAC (auto-ranging)
50/60Hz	50/60Hz	50/60Hz
1.73A (max)	0.68A	1.36A
380W (max)	150W (max)	300W (max)
0-37°C	0-40°C	0-40°C
Fan	Natural convection	Natural convection
0-95% non-condensing	5-95% non-condensing	5-95% non-condensing
IP20	IP20	IP20
Black	Black	Black
Aluminium extrusion and casting	Aluminium extrusion and sheet	Aluminium extrusion and sheet
465 x 752 x 422mm	735 x 327 x 117mm	735 x 790 x 140mm
14.8kg (Manual operation) 17.4kg (Pole operation)	8.4kg (Manual operation) 9.5kg (Pole operation)	11.5kg (Manual operation) 15.0kg (Pole operation)
2 years	2 years	2 years

# Panel lights: Studio Panel MKII

Philips Selecon Studio Panel MKII is a compact, lightweight LED luminaire, designed for both studio and location use. They feature calibrated white color temperature settings of 3200K and 5600K, making them ideal for a wide range of lighting applications.

Requiring just 50 Watts, these luminaires operate on AC or DC voltage. The battery power input allows location operation using industry standard batteries. Additional holographic diffuser accessories provide beam angle control with minimal light loss.



## Product specification

Light source	Color temp	TLCI	Wattage	Beam	Dimming	Housing	Overall dimensions W x H x D	Weight	Order Code
LED	3200-5600K	94	30W	50°	Local / DMX	Black	300 x 545 x 66mm	2.3kg	PLSTUPNL-TW-03 MKII
LED	3200K	94	43W	50°	Local / DMX	Black	300 x 545 x 66mm	2.3kg	PLSTUPNL-3200-03 MKII
LED	5600K	94	41W	50°	Local / DMX	Black	300 x 545 x 66mm	2.3kg	PLSTUPNL-5600-03 MKII

## Accessories

	Finish	Order Code
2 leaf barndoor	Black	PLSTUPNLBD
40° standard spread lens		PLSTUPNLL40
60° standard spread lens		PLSTUPNLL60
Front mount accessory holder / adapter ring	Black	PLSTUADPTRG
Pistol grip handle		PLSTUPGH
16mm female stud adapter		PLSTUPNLSAF
16mm male stud adapter		PLSTUPNLSAM
Anton Bauer Gold Series battery mount		PLSTUABBH
V-lock style battery mount		PLSTUVLBH

## Features

- Compact lightweight design.
- 50 degree beam angle.
- 8 or 16-bit control from any DMX512-A control source.
- Local rotary control for intensity.
- Variable version features 9 built-in color temperature pre-sets including 3200K and 5600K.
- Variety of accessories (all accessories are sold separately).
- Battery or mains operated.
- Three year limited warranty.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# TV fresnels: 200F and 400F

Philips Strand 200F and 400F, broadcast-grade fresnels, provide a world class LED alternative to the traditional 1kW and 2kW tungsten fresnels, reducing the power consumption by approximately 80%.

Using an innovative optical and thermal design, the 400F's 10" lens, provides a 12-45° beam angle delivering more than 2000 lux at a 10m distance.

Equipped with a smart Strand control user-interface, the color LCD display with 8 soft keys and decoder wheel enables intuitive operation. A USB port also allows for future firmware upgrades or performance data file downloads.

Both the 200F and 400F LED TV fresnels consist of both a tungsten and daylight version. Either can be pole-operated or manually-operated, with a pole-operated focusing knob at the front and manual knob at the rear.



## 200F

### Product specification

Light source	Type	Color temp	TLCI	Wattage	Beam	Dimming	Housing	Overall dimensions W x H x D	Weight	Order Code
LED	Manual operation	3200K	96	180W	12-60°	Local / DMX	Black	326 x 603 x 326mm	7.4kg	200FTVTUNGMO
LED	Manual operation	5600K	95	180W	12-60°	Local / DMX	Black	326 x 603 x 326mm	7.4kg	200FTVDAYLTMO
LED	Pole operation	3200K	96	180W	12-60°	Local / DMX	Black	346 x 603 x 326mm	7.9kg	200FTVTUNGPO
LED	Pole operation	5600K	95	180W	12-60°	Local / DMX	Black	346 x 603 x 326mm	7.9kg	200FTVDAYLTPO



## 400F

### Product specification

Light source	Type	Color temp	TLCI	Wattage	Beam	Dimming	Housing	Overall dimensions W x H x D	Weight	Order Code
LED	Manual operation	3200K	96	380W	12-45°	Local / DMX	Black	435 x 752 x 422mm	14.8kg	400FTVTUNGMO
LED	Manual operation	5600K	97	380W	12-45°	Local / DMX	Black	435 x 752 x 422mm	14.8kg	400FTVDAYLTMO
LED	Pole operation	3200K	96	380W	12-45°	Local / DMX	Black	465 x 752 x 422mm	17.4kg	400FTVTUNGPO
LED	Pole operation	5600K	97	380W	12-45°	Local / DMX	Black	465 x 752 x 422mm	17.4kg	400FTVDAYLTPO

### Accessories

	Order Code
200F spare 4 leaf barndoor	200FTVBD
400F spare 4 leaf barndoor	400FTVBD

### Features

- High TLCI.
- Available as manual and pole operation.
- Shaft focus design, with manual knob at rear and angled pole operation cup at the front.
- 3 selectable fan modes for complete control – silent / brightness / on.
- Selectable LED or “tungsten” response.
- Built-in 3 tungsten dimmer curves for matching legacy lighting.
- Color LCD display.
- Easy “touch and turn” operation with 8 soft buttons and wheel.
- USB port for firmware upgrade and performance log file download.
- Local and DMX control.
- RDM setup.
- powerCON AC and 5-pin DMX in and thru connectors.
- Two year limited warranty.

### Supplied with:

Barndoor  
Color frame  
28mm spigot

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Softlights: 150S and 300S

Philips Strand 150S and 300S are new slimline LED studio softlights designed specifically for TV broadcast lighting. Higher than 90 TLCI and consistent cool white – 5600K and warm white – 3100K in a soft even output. Conventional cooling without fans to offer a quiet operation environment during TV program recording.

A large illuminance output area, 50° beam angle for a smooth even output to a far distant object. High performance optical system formed by a high quality PMMA convex lens and frost panel filter. With on board full color LCD display, all necessary data such as DMX address, Intensity, Cd value, CRI, LED/tungsten mode, Curve type, CCT and internal temperature can be viewed at all times. With the simple “touch and turn” design, all parameters can be easily adjusted.

The range complements the 200F and 400F LED TV fresnels.



## 150S

### Product specification

Light source	Type	Color temp	TLCI	Wattage	Beam	Dimming	Housing	Overall dimensions W x H x D	Weight	Order Code
LED	Manual operation	3100K	94	150W	50°	Local / DMX	Black	593 x 327 x 117mm	8.4kg	150S3100K
LED	Manual operation	5600K	96	150W	50°	Local / DMX	Black	593 x 327 x 117mm	8.4kg	150S5600K
LED	Pole operation	3100K	94	150W	50°	Local / DMX	Black	735 x 560 x 137mm	9.5kg	150S3100KPO
LED	Pole operation	5600K	96	150W	50°	Local / DMX	Black	735 x 560 x 137mm	9.5kg	150S5600KPO



## 300S

### Product specification

Light source	Type	Color temp	TLCI	Wattage	Beam	Dimming	Housing	Overall dimensions W x H x D	Weight	Order Code
LED	Manual operation	3100K	94	300W	50°	Local / DMX	Black	593 x 556 x 117mm	11.5kg	300S3100K
LED	Manual operation	5600K	96	300W	50°	Local / DMX	Black	593 x 556 x 117mm	11.5kg	300S5600K
LED	Pole operation	3100K	94	300W	50°	Local / DMX	Black	735 x 790 x 140mm	13.5kg	300S3100KPO
LED	Pole operation	5600K	96	300W	50°	Local / DMX	Black	735 x 790 x 140mm	13.5kg	300S5600KPO

### Accessories

	Order Code
150S 20° honeycomb	150SHC20
150S 36° honeycomb	150SHC36
300S 20° honeycomb	300SHC20
300S 36° honeycomb	300SHC36
150S 8 leaf barndoor	150SBD8L
300S 8 leaf barndoor	300SBD8L

### Features

- Fixed stable color temperature.
- High TLCI.
- No fans – silent cooling.
- Real time intensity display.
- Selectable LED or “tungsten” response.
- Color LCD display.
- Easy “touch and turn” operation.
- Local and DMX control.
- RDM setup.
- powerCON AC and 5-pin DMX in and thru connectors.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Intelligent lights / moving heads

Since the beginning, Vari-Lite has led the world in automated lighting technology; developing pioneering products with an unrivaled reputation. Today, lighting professionals in theater, television, concerts, motion pictures, corporate shows and advertising, look to Vari-Lite and Showline for inspiration and support for their productions.

AC/DC Rock or Bust tour

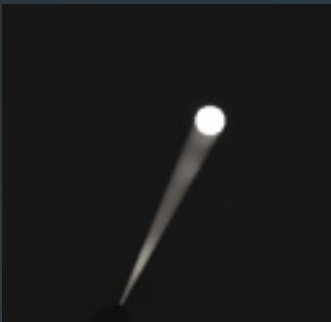
Lighting designer: Patrick Woodroffe

Photography: Ralph Larmann



Gobos and mid-air effects apertures can add an extra dynamic to any lighting show. Philips Vari-Lite and Showline products are packed with a variety of fabulous pre-loaded gobos. With access to the Vari-Lite library the choice is endless.

Illustrated are the pre-loaded wheels from the SL HYDRUS 350, SL LEDSPOT 300 and the impressive new VL6000 Beam. For more inspiration check out the extensive Vari-Lite library



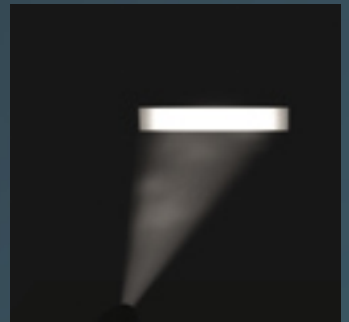
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SL HYDRUS 350 only  
Aperture - reducer medium



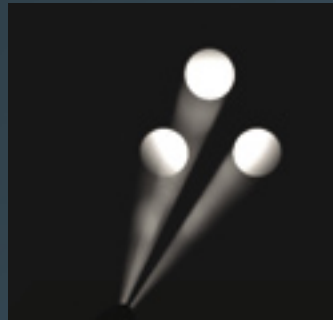
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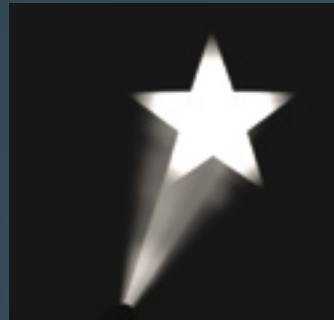
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SL HYDRUS 350 only  
Aperture - cross



SL HYDRUS 350 only  
Aperture - tri-dot



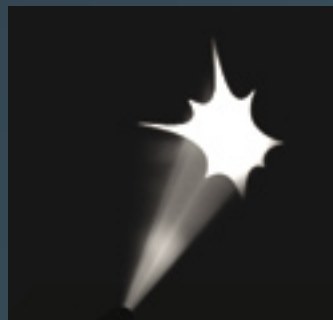
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Aperture - star



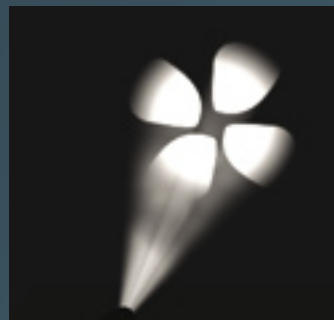
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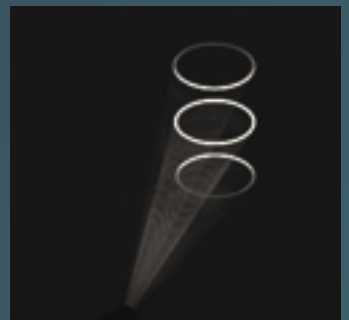
SL HYDRUS 350 only  
Aperture - bar breakup



SL HYDRUS 350 only  
Aperture - splat

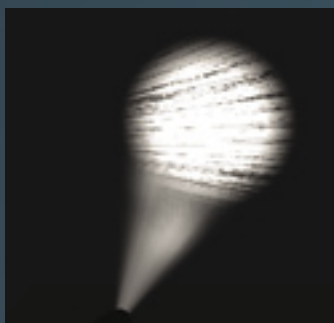


SL HYDRUS 350 only  
Aperture - clover



Stack of ovals

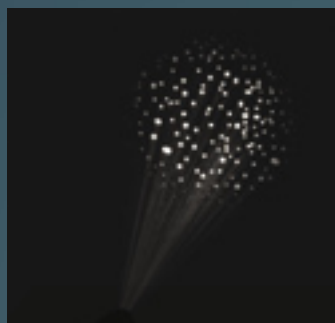




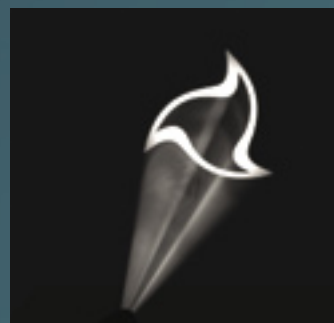
Alpha rays



Blades



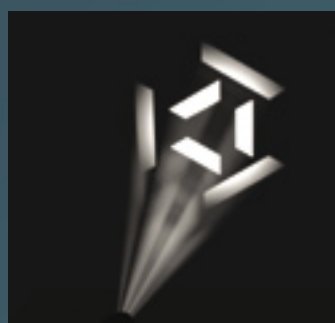
Night sky



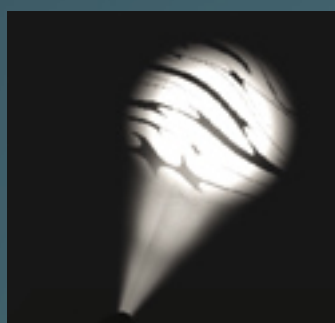
Wavy triangles



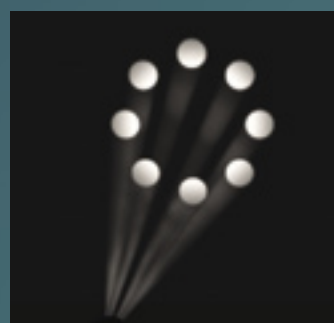
Gamma



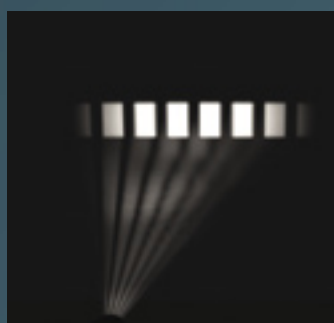
Sliced



Swirl



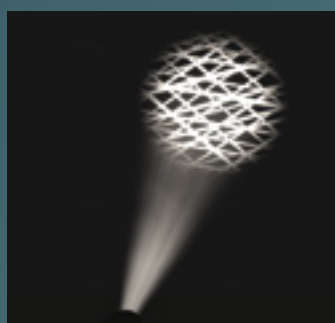
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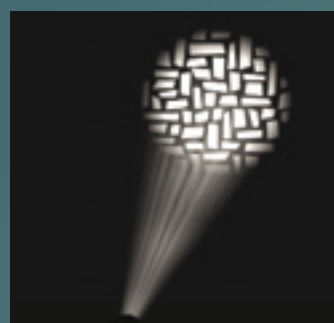
Punch card



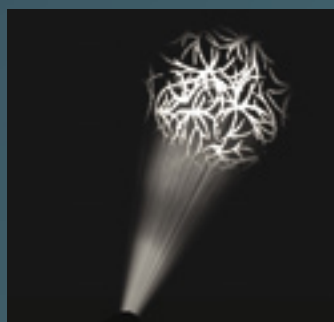
Cyclone spiral



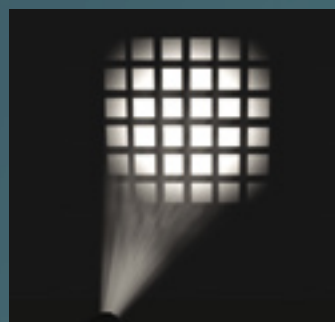
Lattice



Bricked out



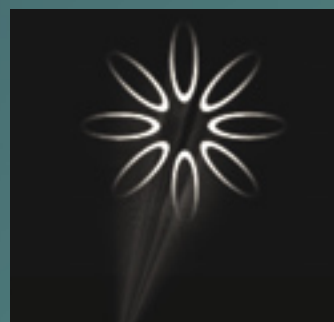
Tribal



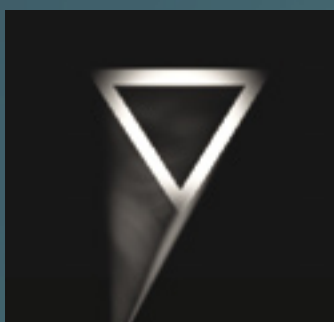
Grid



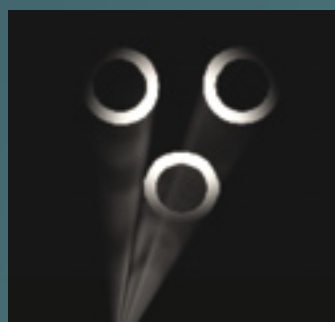
Honeycomb



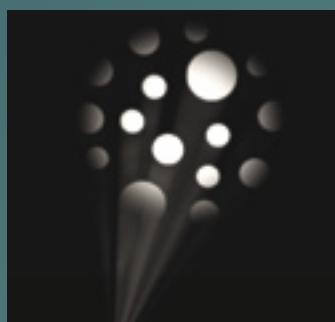
Circle of ovals



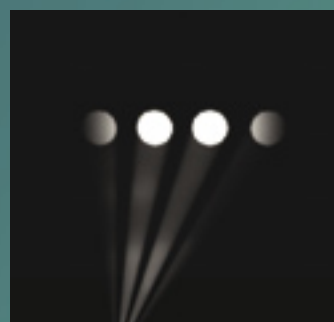
Medium triangle



Tri-cone



Ballz



4 hole ray

# ArenaVision LED Philips moving

Philips Lighting Arena Experience have recently completed the installation at Amsterdam ArenA. Being innovation partners of Philips Lighting, this world renowned soccer stadium and multi event venue has been equipped with the ArenaVision LED floodlight system, upgrading their pitch lighting into the highest UEFA 'A Elite' category. Included in the lighting system are 14 of our impressive new intelligent moving head Philips VL6000 Beam – a world premiere.

The Amsterdam ArenA is the base for Ajax soccer club – as well as being an ongoing event venue, hosting headlining concerts and shows throughout the year. It offers a spectacular combination of our dynamic LED pitch lighting in combination with Philips Vari-Lite VL6000 Beam to integrate or enhance any show.

# with integrated heads



Amsterdam Arena

Photography: Redshift Photography

# Beam

## VL 6000 BEAM



Source	PGJX50
Lamp cap	FastFit
Wattage	1500W
Lumen output (max.)	55,000
Color temperature	6300K
CRI	>80
Beam angle	6.4°
Pan / tilt	540° / 242°
Controls	DMX512-A / RDM
DMX channels	23
Color system	3 fixed color wheels
Gobo / effects	1 x 7 + open index / rotating wheel
Independent rotating prism	No
Independent frost	Yes
Dimmer / strobe	Mechanical glass wheel / dual independent strobe blades
Framing shutters / beam shaping	No
Color calibration	N/A
Accessories	N/A
Operating voltage	200-240VAC, 50/60Hz
IP rating	IP22
Operating temperature	-20-50°C non-condensing 33-50°C condensing
Construction	Metal frame, engineering plastic covers
Finish	Black
Dimensions L x H x W	660 x 605 x 600mm
Hanging centers	622mm
Weight	28kg
Warranty	2 years

# Beam: VL6000 Beam

Designed specifically as the market-leading mid-air effects fixture, the Philips Vari-Lite VL6000 Beam sets a new standard in its class.

A large 14inch (356mm) front aperture – using a new exclusive Philips ellipsoid reflector array system – produces a retro style searchlight effect, with a high output tight collimated shaft of light at 6.4°, which exceeds 55,000 lumens.

Its lightweight robust construction and stylish compact design, allows the fixture to transport and install easily, while its visual effects and weather guarded design - for limited protection from rain - offer something versatile and truly spectacular for arena applications.

The exclusive cloaked transition generator system can be used to create auto-timed fades between color combo to reduce programing time in transitioning colors.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
PGJX50	>80	26300K	1500W	6.4°	Black	IP22	660 x 605 x 600mm	28kg	20.9708.0001

## Accessories

	Order Code
Luminaire programing kit	PEGASUS

## Features

- Produce a high output tight collimated shaft of light at 6.4° which exceeds 55,000 lumens.
- 3 way color wheel system allows the VL6000 Beam to maintain its highest output at all times and gives the operator 18 direct slots to choose from as well as color mixing to achieve up to 55 full color combinations.
- Exclusive cloaked transition generator system can create auto-timed fades between color combo reducing programing time in transitioning colors.
- Cloud search mode for DMX free operational use.
- Includes 1500W short Arc lamp.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

# Spots

	VL440 Spot	SL LEDSPOT 300	VL2500 Spot	VL770 Spot	VL3015 Spot	VL3515 Spot
						
Source	MSR Gold	LED	MSR Short Arc	MSR Gold	MSR Short Arc	MSR Short Arc
Lamp cap	PGJX50	N/A	GY9.5	Mini FastFit	SFc10-4	SFc10-4
Wattage	400W	270W engine 420W total power	700W	700W	1500W	1500W
Lumen output (max.)	9000	11,500 standard mode 9,200 studio mode	14,500	15,100	27,000 peak field reflector	27,000 peak field reflector
Color temperature	6000K	6500K	5600K	6000K	6000K	6000K
CRI	>75	>65	>80	>75	>80	>80
Beam angle	15-36°	10-45°	18.5-42°, 14-55.5°	15-36°	10-60°	10-60°
Pan / tilt	540° / 260°	540° / 255°	540° / 270°	540° / 260°	540° / 270°	540° / 270°
Controls	DMX512-A	DMX512-A / RDM, Art-Net™	DMX512-A	DMX512-A	DMX512-A	DMX512-A
DMX channels	30	59	22	30	28	31
Color system	CMY, 8 + open fixed	CMY, CTO 5 + open fixed color wheel	CMY, 11 + open fixed	CMY, 8 + open fixed	CMY, 6 + open fixed + variable CTO	CMY, 6 + open fixed + variable CTO
Gobo / effects	7+open rotating / 10+10 fixed	9+open fixed, 6+open rotating / index	5 + open rotating	7 + open rotating	2 x 6 + open rotating 1 x 5 + open rotating	1 x 5 + open rotating 1 x 6 + open fixed
Independent rotating prism	3 facet round	3 facet round	No	3 facet round	No	No
Independent frost	Variable	Yes	No	Variable	No	No
Dimmer / strobe	Mechanical glass wheel / independent strobe dual strobe blades	Electronic 16-bit	Mechanical glass wheel / independent strobe dual strobe blades	Mechanical glass wheel / independent strobe dual strobe blades	Mechanical glass wheel / independent strobe dual strobe blades	Mechanical glass wheel / independent strobe dual strobe blades
Framing shutters / beam shaping	N/A	Yes	No	N/A	No	Yes
Iris	Yes	Yes	Yes	Yes	Yes	No
Color calibration	N/A	N/A	N/A	N/A	N/A	N/A
Accessories	Wireless solutions wireless DMX receiver. Lumen Radio wireless DMX receiver. City Theatrical wireless DMX receiver.	-	N/A	Wireless solutions wireless DMX receiver. Lumen Radio wireless DMX receiver. City Theatrical wireless DMX receiver.	-	-
Operating voltage	100-240VAC 50/60Hz	100-240VAC 50/60Hz	90-264VAC 50/60Hz	100-240VAC 50/60Hz	200-264VAC 50/60Hz	200-264VAC 50/60Hz
IP rating	IP20	IP20	IP20	IP20	IP20	IP20
Operating temperature	-29-50°C	45°C	-29-50°C	-29-50°C	-29-40°C	-29-40°C
Construction	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers
Finish	Black White	Black	Black	Black White	Black	Black
Dimensions H x W x L	480 x 616 x 565mm	443 x 441 x 666mm	478 x 660 x 479mm	480 x 616 x 565mm	828 x 508 x 610mm	828 x 508 x 610mm
Hanging centers	585mm	600mm	483mm	585mm	660mm	660mm
Weight	25kg	28kg	27kg	25kg	43kg	43kg
Warranty	2 years	2 years	2 years	2 years	2 years	2 years

VL4000 Spot	VL3015LT Spot	VLZ Spot	VLZ Profile	VL1100 Tungsten ERS and D ERS	VL1100 Arc ERS
					
MSR Gold	MSR Short Arc	LED	LED	Tungsten halogen	MSR
PGJX50	SF10-4	N/A	N/A	G22	G22
1200W	1500W	620W	620W	1000W	575W
33,000 standard mode 25,000 studio mode	41,400	25,000	24,000	10,000 (ERS) 10,000 (D ERS)	15,000
6000K	6000K	8000K source Variable CTO	8000K source Variable CTO	3200K	5900K
>75	>80	>70	>70	>90	>90
9-47°	6-60°	7-50°	8-50°	19-36-70°	19-36-70°
540° / 270°	540° / 270°	540° / 270°	540° / 270°	540° / 270°	540° / 270°
DMX512-A / RDM	DMX512-A	DMX512-A / RDM, Art-Net™	DMX512-A / RDM, Art-Net™	DMX512-A	DMX512-A
57 / 52	36	42	61	26+1 (ERS) 27 (D ERS)	27
CMY, variable CTO, 2 fixed color wheels 5 + open	CMY, variable CTO, 2 x 5 + open fixed color wheels	CMY, Variable CTO 2 x fixed color wheels 6 + open	CMY, Variable CTO 1 x fixed color wheels 6 + open	CMY	CMY
2 wheel (interchangeable) 6 + open rotatable 2 x independent animation wheels	3 x 4 + open rotating (interchangeable)	2 x rotating / indexing wheel 7+ open	1 x rotating / indexing wheel 7+ open, 1 x fixed gobo wheel 7 + open	1 x 5 + open rotating interchangeable	1 x 5 + open rotating interchangeable
3 facet round	Yes	3 facet round	2 facet round	No	No
Yes	Yes	3 way frost system	4 way frost system	Variable	Variable
Mechanical glass wheel / independent strobe dual strobe blades	Mechanical glass wheel / independent strobe dual strobe blades	Electronic 16-bit	Electronic 16-bit	N/A (ERS) On-board IGBT dimmer / no strobe (D ERS)	Mechanical glass wheel / no strobe
Yes	No	No	No	Yes (S versions)	Yes (S versions)
Yes	Yes	Yes	Yes	Yes (I version)	Yes (I version)
N/A	N/A	N/A	N/A	N/A	N/A
-	Followspot handle	-	-	-	-
200-240VAC 50/60Hz	200-264VAC 50/60Hz	100-240VAC 50/60Hz	100-240VAC 50/60Hz	200-240VAC 50/60Hz	100-240VAC 50/60Hz
IP20	IP20	IP20	IP20	IP20	IP20
-29-40°C standard mode -29-50°C studio mode	-29-40°C	-10-45°C	-10-45°C	-29-50°C	-29-50°C
Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame / engineering plastic covers
Black	Black	Black	Black	Black	Black
625 x 571 x 808mm	552 x 1034 x 774mm	458 x 316 x 809mm	458 x 316 x 796mm	445 x 876 x 660mm	445 x 876 x 660mm
635mm	788mm	600mm	600mm	635mm	635mm
40.9kg	52.3kg	44.0kg	42.4kg	32kg (ERS) 32.65kg (D ERS)	32kg (7.2kg ballast hangs separate)
2 years	2 years	2years	2 years	2 years	2 years

# Spots: VL440 Spot

The Philips Vari-Lite VL440 Spot provides brilliant color mixing through a three-wheel CMY color assembly, and also has one gobo wheel with seven rotatable and indexable positions, a second gobo wheel with ten fixed positions, powerful pan and tilt motors that provide smooth, fast time-controlled continuous motion capable of 0.3° resolution with a pan range of 540° and tilt of 260°, a zoom range from 15° to 36°, a mechanical iris for continuous beam size control, and built in mounting points on the front of the luminaire provide for easy attachment of after-market accessories such as top hats.

The VL440 Spot uses a 400W MSR Gold 400 Philips MinifastFit lamp to produce 9000 lumens of output. The luminaire is complete with eight standard colors on a fixed wheel, a coated glass dimmer wheel, a separate dual-blade strobe system, an independent armature with frost glass, and a second, independent armature with a rotating and indexable prism. The frost and prism glass are interchangeable.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
MSR Gold 400 MinifastFit	>75	6000K	400W	15-36°	DMX512-A	Black	IP20	480 x 616 x 565mm	25kg	20.9687.0002
MSR Gold 400 MinifastFit	>75	6000K	400W	15-36°	DMX512-A	White	IP20	480 x 616 x 565mm	25kg	20.9687.0002.02

## Accessories

	Order Code
Wireless solutions wireless DMX receiver	28.9687.0100
Lumen Radio wireless DMX receiver	28.9687.0101
City Theatrical wireless DMX receiver	28.9687.0102
USB luminaire programming kit	28.8500.0054

## Features

- 400W MSR Gold 400 MinifastFit lamp.
- 9,000 lumens
- Zoom from 15-36°.
- CMY color mixing.
- Fixed color wheel; 8 interchangeable dichroic filters.
- Rotating gobo wheel; seven indexable rotating positions; interchangeable gobos.
- Fixed gobo wheel; 10 gobo positions; interchangeable gobos.
- Independent, drop-in armature with frost glass.
- Independent, drop-in armature with rotating and indexable five facet prism.
- Independent dual strobe blades.
- Mechanical iris for beam size control.
- Coated glass dimmer wheel and separate, dual-blade strobe system.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)



## Spots: SL LEDSPOT 300

The Showline SL LEDSPOT 300 is a compact high performance moving head luminaire delivering a powerful output with fast and quiet movement. The precision framing system is a unique feature for a small compact luminaire, making the SL LEDSPOT 300 an ideal solution for designers with challenging space requirements, desiring total beam control.

The large zoom angle range, precision indexing four framing shutter system, frost flag and iris enable full beam control. Shape, size, and soften the beam as required and heighten the impact of your designs.

With six rotating/indexable and nine fixed gobos from the Vari-Lite Image Library and a rotating/indexable circular prism, the SL LEDSPOT 300 is ideal for creating dynamic and arresting visual effects.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	>65	6500K	270W engine 420W total power	10-45°	DMX512-A / RDM Art-Net™	Black	IP20	443 x 441 x 666mm	28kg	26-095-01115-00

### Features

- 11,000 lumens.
- 4 : 1 zoom.
- CMY color mixing.
- CTO.
- Framing and iris system in a compact fixture.
- 7 + open fixed color wheel.
- 6 + interchangeable rotating / index gobo wheel.
- 9 + open interchangeable fixed gobo.
- 3 facet prism.
- Iris.
- Framing system.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

# Spots: VL2500 Spot

The Philips Vari-Lite VL2500 Spot includes a five-position rotating gobo wheel and an 11-position fixed gobo wheel along with CMY color mixing, a coated glass dimmer wheel and a separate dual-blade strobe system that provides a smooth, super-fast strobe. Combined with an 11-slot fixed color wheel, the color options are practically limitless. The VL2500 Spot's pan and tilt motors are powerful and provide great torque while the beam size iris operates quietly.

The VL2500 Spot packs all these features into a small package while also including clear optics, exceptional zoom range, fast, smooth movement and powerful output, all at a most reasonable price.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
MSR Short Arc	>80	5600K	700W	18.5-42°	DMX512-A	Black	IP20	478 x 660 x 479mm	27kg	20.9676.0001

## Accessories

	Order Code
USB luminaire programing kit	28.8500.0054

## Features

- 700W MSR Short Arc lamp.
- 14,500 lumens.
- Zoom from 18.5-42°.
- CMY color mixing system.
- 5 position plus open rotating and indexing gobo wheel.
- 11 position plus open fixed gobo wheel.
- 11 position plus open fixed color wheel.
- Mechanical Iris for beam size control.
- Separate dual-blade strobe system.
- Coated glass dimmer wheel.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

## Spots: VL770 Spot

The Philips Vari-Lite VL770 Spot luminaire provides brilliant color mixing through a three-wheel CMY color assembly, and also have one gobo wheel with seven rotatable and indexable positions, a second gobo wheel with ten fixed positions, powerful pan and tilt motors that provide smooth, fast time-controlled continuous motion capable of 0.3° resolution with a pan range of 540° and tilt of 260°, a zoom range from 15° to 36°, a mechanical iris for continuous beam size control, and built in mounting points on the front of the luminaire provide for easy attachment of after-market accessories such as top hats.

The VL770 Spot uses an industry-standard 700W MSR Gold Philips MiniFastFit lamp to produce an impressive output of 15,100 lumens. Each luminaire is complete with eight standard colors on a fixed wheel, a coated glass dimmer wheel, a separate dual-blade strobe system, an independent armature with frost glass, and a second, independent armature with a rotating and indexable prism. In all the fixtures the frost and prism glass are interchangeable.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
MSR Gold 700 MiniFastFit	>75	6000K	700W	15-36°	DMX512-A	Black	IP20	480 x 616 x 565mm	25kg	20.9687.0003
MSR Gold 700 MiniFastFit	>75	6000K	700W	15-36°	DMX512-A	White	IP20	480 x 616 x 565mm	25kg	20.9687.0003.02

### Accessories

	Order Code
Wireless solutions wireless DMX receiver	28.9687.0100
Lumen Radio wireless DMX receiver	28.9687.0101
City Theatrical wireless DMX receiver	28.9687.0102
USB luminaire programing kit	28.8500.0054

### Features

- 700W MSR Gold 700 MinifastFit lamp.
- 15,100 lumens
- Zoom from 15-36°.
- CMY color mixing.
- Fixed color wheel; 8 interchangeable dichroic filters.
- Rotating gobo wheel; seven indexable rotating positions; interchangeable gobos.
- Fixed gobo wheel; 10 gobo positions; interchangeable gobos.
- Independent, drop-in armature with frost glass.
- Independent, drop-in armature with rotating and indexable five facet prism.
- Mechanical Iris for beam size control.
- Coated glass dimmer wheel and separate, dual-blade strobe system.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

## Spots: VL3015 Spot

The Philips Vari-Lite VL3015 Spot Luminaire provides the increased output of a 1500W lamp in a luminaire that offers the same famous features as the 1200W VL3000 Spot. Standard dual reflectors allow users to choose either a peaked or flat field beam.

The VL3015 Spot features 6:1 zoom optics, CMY color mixing, variable CTO color temperature correction, a six-position color wheel, three gobo/effects wheels, a beam-size iris and separate dimmer and ultra-fast strobe mechanisms. A standard palette of gobos, effects and colors is provided with the unit. Custom gobos, effects and colors are available.

It also allows users to operate its single lamp at three different wattages via either a control channel setting or a lamp menu option. With only a setting adjustment, the fixture will run its short arc lamp at 900W, 1200W or 1650W without any detrimental effects on the lamp.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
MSR Short Arc	>80	6000K	1500W	10-60°	DMX512-A	Black	IP20	828 x 508 x 610mm	43kg	20.9676.0001

### Features

- 1500W MSR Short Arc lamp.
- 27,000 lumens peak filed reflector.
- 6:1 zoom range 10 to 60°.
- Peak or flat field refractor user changeable.
- CMY color mixing.
- Variable CTO.
- 6 + open Interchangeable fixed colors.
- Iris.
- 3 rotating gobo wheels 2 x 6 + open rotating 1 x 5 + open rotating.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

## Spots: VL3515 Spot

Using a 1500W double-ended short arc lamp, the Philips Vari-Lite VL3515 Spot also features 6:1 zoom optics, CMY color mixing, variable CTO color temperature correction, a six-position color wheel, two gobo/effects wheels, a shutter and separate dimmer, and ultra-fast strobe mechanisms.

The VL3515 Spot has an added feature of a four-blade shutter mechanism that allows the blades to be operated independently or in unison on two planes for a clear and crisp image.

Two reflectors are standard on the luminaire allowing users to choose between either a peaked or flat-field beam. In the peaked beam, the fixture provides 27,000 lumens of output, and in the flat field beam, an output of 22,000 lumens is achieved. Reflectors are easily changed, and whichever one is not chosen rides securely inside the luminaire on a specially designed mount.

The VL3515 Spot is complete with a palette of Vari-Lite gobos, effects and colors, while custom gobos, effects and colors are also available. Additionally, the fixture is similarly sized in comparison to all other Series 3000 products providing a consistent hang configuration and appearance, no matter which luminaire is required.

The VL3515 Spot allows users to operate its single lamp at three different wattages via either a control channel setting or a lamp menu option. With only a setting adjustment, the fixture will run its short arc lamp at 900W, 1200W or 1650W without any detrimental effects on the lamp.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
MSR Short Arc	>80	6000K	1500W	10-60°	DMX512-A	Black	IP20	828 x 508 x 610mm	43kg	20.9679.0002

### Features

- 1500W MSR Short Arc lamp.
- 27,000 lumens peak field reflector, 22000 flat field refactor.
- 6:1 zoom range 10 to 60°.
- Peak or flat field refactor user changeable.
- CMY color mixing.
- Variable CTO.
- 6 + open Interchangeable fixed colors.
- Framing system .
- 3 rotating gobo wheels 2 x 6 + open rotating 1 x 5 + open rotating.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

## Spots: VL4000 Spot

Every aspect of the Philips Vari-Lite VL4000 Spot luminaire has been designed with performance in mind using a Philips 1200W lamp to produce 33,000 lumens in standard mode (25,000 studio mode) and high resolution optics to ensure remarkable center-to-edge focusing, with a 5:1 zoom that covers an amazing 9 to 47 degrees without sacrificing output or clarity.

The VL4000 Spot also features dual rotating gobo wheels, dual animation wheels, the chromatically tuned Dichro\*Fusion effect, a four-blade shutter system and mechanical iris. But if that wasn't enough, an independent prism with divergence control and variable frost are also implemented into the luminaire.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
MSR Gold FastFit	>75	6000K	1200W	9-47°	DMX512-A / RDM	Black	IP20	625 x 571 x 808mm	40.9kg	20.9704.0001

### Features

- 1200W Philips MSR Gold FastFit lamp.
- Infinity CMY cross fading system.
- 2 fixed color wheels; five positions each.
- Variable CTO color temperature correction.
- Two gobo wheels; seven rotatable, indexable positions plus open.
- Dual coated glass dimmer flags.
- Dual blade strobe system.
- Beam size iris.
- 33,000 lumens (standard mode).
- 25,000 lumens (studio mode).
- Two animation wheels; rotating indexable patterns with variable motion control.
- Zoom range from 9° to 47°.
- 5:1 zoom optics system.
- 3 facet prism with divergence control.
- Variable frost.
- 4 frame blade system with individually indexable frames and simultaneous focus on all blades.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

## Spots: VL3015LT Spot

The Philips Vari-Lite VL3015LT Spot provides unprecedented output from a 1500W lamp in a luminaire that offers an incredible zoom range optimized for long throw applications along with a vast array of powerful features.

Using a 1500W double-ended short arc lamp to produce 41,400 lumens of output, the VL3015LT Spot features 10:1 zoom optics, CMY color mixing, variable CTO wheel, two five-position color wheels, three gobo/effects wheels, a beam size iris, and separate dimmer and ultra-fast strobe mechanisms. A standard palette of gobos, effects and colors is provided with the unit. Custom gobos, effects, and colors are also available.

Additionally, the light contains an independent rotating and indexing 3-facet prism as well as an independent frost glass. The zoom range of 6° to 60° allows for use in a multitude of applications from stadiums to theaters.

The VL3015LT Spot allows users to operate its single lamp at three different wattages via either a control channel setting or a lamp menu option. With only a setting adjustment, the fixture will run its short arc lamp at 900W, 1200W or 1650W without any detrimental effects on the lamp.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
MSR Short Arc	>80	6000K	1500W	6-60°	DMX512-A	Black	IP20	552 x 1034 x 774mm	52.3kg	20.9698.0001

### Features

- 1500W MSR Short Arc lamp.
- 41,400 lumen output.
- Designed for long throw applications 10:1 zoom range 6 to 60 degree zoom range.
- CMY color mixing system with variable CTO.
- 5 fixed color wheel 5 + open.
- Independent 3 facet rotating prism.
- Separate frost flag.
- 2 color wheels 5 + open color on each wheel continuous spin mode.
- Iris.
- Follow spot mode and handle accessory.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

# Spots: VLZ Spot

The Philips Vari-Lite VLZ Spot is a dedicated spot luminaire utilizing the latest high output white LED sources to produce a staggering 25,000 lumens projected from a 180mm (7") front lens.

The familiar CMY-CTO color system creates stunning, seamless mixed colors. The dual fixed color wheel with linear control gives access to Vari-Lite colors and split color combinations. Color shake and color wheel spin control have also been added to the mix.

Dual rotating and indexable gobo wheels produce stunning mid-air and break up effects. The high contrast flat field wide zoom range and iris will cover beam control from the narrowest shafts of light to a hard focused wide projection. Multiple beam effects can be produced using the 3 faceted linear prism. Hard to soft edge focusing is attained via the 16-bit focus control channel, and focus zoom tracking can be selected remotely via a console. The beam softness can be adjusted via the 3 way frost control.

The combination of the color and beam control makes the VLZ Spot the go-to professional moving spot luminaire.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
LED	>70	8000K source Variable CTO	620W	7-50°	DMX512-A / RDM	Black	IP20	458 x 316 x 809mm	44.0kg	26-105-0001-00

## Features

- 25,000 lumens.
- 7-50° zoom.
- Large visual impact 180mm (7") front lens.
- High output White Light LED light source engine to maintain constant high output light levels.
- Wide zoom range.
- 16-bit dimmer control with 4 sectable curves.
- Color mixing system CMY + CTO color control.
- 12 fixed color - 2 color wheels 6 + open with color shake and wheel spin functions.
- 2 fully rotating and indexing gobo wheel loaded interchangeable mid-effect and breakup gobos.
- 3 frost for beam softening.
- 3 facet prism.
- Iris for beam size reduction.
- Fast, accurate and repeatable movement on all functions.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)



## Spots: VLZ Profile

The Philips Vari-Lite VLZ Profile is a dedicated profile luminaire utilizing the latest high output white LED sources to produce a staggering 24,000 lumens projected from a 180mm front lens.

The familiar CMY-CTO color system creates stunning, seamless mixed colors. The dual fixed color wheel with linear control gives access to Vari-Lite colors and split color combinations. Color shake and color wheel spin control have also been added to the mix.

Both mid-air and high quality projection of images is achieved by the 2 gobo wheels loaded with Vari-Lite exclusive gobo patterns. An additional continuously indexing or rotatable animation wheel further enhances the projected effect.

Fitted with both an iris and a 4-blade framing system, giving the operator full beam-shaping control.

Hard to soft edge focusing is achieved via the 16-bit focus control channel and focus zoom. racking can be selected remotely via the lighting console.

The beam softness can be controlled via the 3-way frost control.

The combination of the color and beam control will make this the go-to professional moving profile luminaire



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
LED	>70	8000K source Variable CTO	620W	8-50°	DMX512-A / RDM	Black	IP20	458 x 316 x 796mm	42.4kg	26-105-0002-00

### Features

- 24,000 lumens.
- 8-50° zoom.
- High quality image projection via 140mm (5 1/2") front lens.
- High output white light LED light source engine to maintain constant high output light levels.
- Wide zoom range.
- 16-bit dimmer control with 4 sectable curves.
- Color mixing system CMY + CTO color control.
- 6 fixed color - 1 color wheels 6 + open with color shake and wheel spin functions.
- 1 fully rotating and indexing gobo wheel 7 + open.
- 1 fixed rotating gobo wheel 7 + open loaded with interchangeable glass mid-air effect and breakup gobos.
- 3-way frost control.
- 3 facet prism.
- Iris for beam size reduction.
- Fast, accurate and repeatable movement on all functions.
- Animation wheel with continuous indexable /rotation.
- Framing shutter system 4 blade with independent control and frame rotation +/- 50 degree either side of center.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

# Spots: VL1100 Tungsten ERS and D ERS

The Philips Vari-Lite VL1100 luminaires have a 50kHz drive system that quiets the operation of all two-phase motors in the fixtures during movement and while in static positions. They also have three-phase, ultra quiet stepper motors that provide a smooth, timed continuous pan and tilt motion. Additionally, a central bearing system in the gobo wheel reduces noise and ensures smooth operation.

Automated functions include CMY color mixing, rotating gobos, variable diffusion, and a zoom lens that ranges from 19° to 36° for normal imaging and a super zoom function that ranges to 70°.



## Product specification

Light source	Version	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
Tungsten halogen	TS	3200K	1000W	19-70°	DMX512-A	Black	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.02
Tungsten halogen	TS	3200K	1000W	19-70°	DMX512-A	White	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.02.02
Tungsten halogen	TI	3200K	1000W	19-70°	DMX512-A	Black	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.03
Tungsten halogen	TI	3200K	1000W	19-70°	DMX512-A	White	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.03.02
Tungsten halogen	TSD	3200K	1000W	19-70°	DMX512-A	Black	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.32
Tungsten halogen	TSD	3200K	1000W	19-70°	DMX512-A	White	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.32.02
Tungsten halogen	TID	3200K	1000W	19-70°	DMX512-A	Black	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.33
Tungsten halogen	TID	3200K	1000W	19-70°	DMX512-A	White	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.33.02

## Accessories

	Order Code
USB luminaire programming kit	28.8500.0054

## Features

- 1000W tungsten lamp.
- 10,000 lumens.
- Excellent imaging projection 19-36°.
- Wide zoom range continuously variable field angle in imaging range from 19° to 36°, super zoom angles to 70°.
- Super zoom function 36-70°.
- Excellent imaging projection 19-36°.
- Near silent operation.
- CMY color mixing system.
- Rotating gobo wheel 5 + open (gobo sold separately).
- Framing shutter (S version) four blade system can frame and crop beam field and gobos. Each individual shutter is capable of translating to beam center while also rotating ±35°. Entire shutter rotates ±45°.
- Beam size control iris (I version) In addition to the zoom optics, a mechanical iris provides continuous beam size control for both rapid changes and smooth timed beam angle changes.
- Convection cooled lamp housing for quiet operation.
- Integrated IGBT dimmer on VL1100 Tungsten D ERS version.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

# Spots: VL1100 Arc ERS

The Philips Vari-Lite VL1100 Arc ERS combines the advantages of an ellipsoidal reflector spotlight with the versatility of an automated luminaire.

Coupled with cool color tones, brightness and intensity, the versatility of the VL1100 Arc ERS is further enhanced with either the mechanical iris or 4-blade shutter system. The VL1100 Arc ERS has a 50kHz drive system that quiets the operation of all two-phase motors in the fixtures during movement and while in static positions. Three-phase, ultra quiet stepper motors provide for smooth, timed continuous pan and tilt motion. Additionally, a central bearing system in the gobo wheel reduces noise and ensures smooth operation.

When the production calls for cool color tones and bright, intense light, designers turn to the VL1100 Arc ERS. The VL1100 Arc ERS luminaire's quiet operation and affordable price make it ideal for budget-conscious productions.



## Product specification

Light source	Version	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W x L	Weight	Order Code
MSR	AS	5900K	575W	19-36-70°	DMX512-A	Black	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.12
MSR	AS	5900K	575W	19-36-70°	DMX512-A	White	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.12.02
MSR	AI	5900K	575W	19-36-70°	DMX512-A	Black	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.13
MSR	AI	5900K	575W	19-36-70°	DMX512-A	White	IP20	445 x 876 x 660mm	32.0kg	20.9664.0001.13.02

## Accessories

	Order Code
USB luminaire programming kit	28.8500.0054

## Features

- 575W arc lamp.
- More than 15,000 lumens.
- Near silent operation.
- Separate ballast can be mounted remotely from fixture.
- Arc lamp gives extended life over tungsten version.
- Wide zoom range continuously variable field angle in imaging range from 19-36°, super zoom angles to 70°.
- CMY color mixing system.
- Rotating gobo wheel 5 + open (gobo sold separately).
- Framing shutter (S version) four blade system can frame and crop beam field and gobos. Each individual shutter is capable of translating to beam centre while also rotating ±35°. Entire shutter rotates ±45°.
- Beam size control iris (I version).
- In addition to the zoom optics, a mechanical iris provides continuous beam size control for both rapid changes and smooth timed beam angle changes.
- Convection cooled lamp housing for quiet operation.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)



# VL4000 series **exceeds all expectations** on Rush R40 Live tour

With more than 40 million records sold worldwide, the Rock and Roll Hall of Fame inductee trio of Rush first hit the music scene in the early 1970s and is one of the most iconic rock bands today. Longtime tour lighting designer Howard Ungerleider of Production Design International Toronto, was once again charged with creating the lighting spectacle that would be seen by the multitude of sold-out houses.



After a collaborative process with the production team, Ungerleider turned to Solotech to provide him with the innovative lighting technology to best accentuate the R40 Live tour which included VL4000 BeamWash, VL4000 Spot, VL3500 Wash FX and VL3500 Spot luminaires from Philips Vari-Lite. "Our designs always begin with a full production team collaboration and brainstorming session," began Ungerleider. "For this particular tour, an evolution concept was conceived about going back in time and deconstructing Rush from their earliest beginnings to present day. With our concept in mind we then turned to Solotech to be our tour provider for lighting and video along with their sister-company 4U2C. Once the backbone was all in play, I started putting my lighting design in place which would be filled primarily by VL4000 Spot and VL4000 BeamWash luminaires." Having worked with Rush for over 40 years through 26 tours, Ungerleider knew exactly the type of design that both the band and their passionate fans would want to see. So as he started to look at the automated luminaires to use in the design, he got an intriguing tip that would put in motion the solidification of his Vari-Lite rig. "I really like to use saturated colors in concert lighting and because of this my programmer Tim Grivas told me I needed to take a look at the VL4000 series of fixtures," explained Ungerleider. "When I got to see the VL4000 BeamWash and VL4000 Spot, my decision became a no-brainer. These fixtures are truly fantastic because they are multi-faceted and I love their saturated color."

"I think the most attractive attribute of the VL 4000 series fixtures is a combination of their power and color," concluded Ungerleider. "The color coming out of the VL4000 BeamWash and VL4000 Spot is superior to anything that's been released in the last decade, and their sheer power is amazing. The crispness of their beams is refreshing and lighting designers should give them a look because it's a new paradigm for Philips Vari-Lite to release fixtures of this nature. This tour was pretty much an all Vari-Lite rig and these lights exceeded all my expectations."

# Washes

	SL BEAM 100	SL BEAM 300fx	SL BEAM 500fx
		 NEW!	 NEW!
Source	LED	RGBW LED	RGBW LED
Qty of LED cells	7	19	37
Lamp cap	–	–	–
Lumen output (max.)	1500	4500	15,500
Wattage	150W	350W	1200W
Color temperature	2800-5800K	2800-5800K	2700-5800K
CRI	>90	>90	>90
Color mixing	RGBW	RGBW	RGBW
Beam angle	5-45°	4-40°	5-36°
Pan / tilt	540° / 230°	540° / 230°	540° / 220°
Controls	DMX512-A / RDM, master / slave	DMX512-A / RDM, Art-Net™, master / slave	DMX512-A / RDM, Art-Net™, master / slave
Pixel / zone control	3	Pixel control	Pixel control
DMX modes	HSIC, simple 8-bit RGBW, 8-bit RGBW, 16-bit RGBW	HSIC, simple 8-bit RGBW, 8-bit RGBW, 16-bit RGBW, pattern	HSIC, simple 8-bit RGBW, 8-bit RGBW, 16-bit RGBW, pattern
Dimming	Electronic 8 and 16-bit	Electronic 8 and 16-bit	Electronic 8 and 16-bit
Macro effects	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control
Accessories	–	–	–
Operating voltage	100-240VAC	100-240VAC	100-240VAC
IP rating	IP21	IP20	IP20
Operating temperature	-29-40°C	-29-40°C	-20-40°C
Construction	Metal frame and engineering plastic covers	Metal frame and engineering plastic covers	Metal frame and engineering plastic covers
Finish	Black	Black	Black
Dimensions L x H x W	397 x 229 x 210mm	335x 480 x 290mm	475 x 605 x 396mm
Hanging centers	230mm	500mm	620mm
Weight	7.6kg	14.5kg	29.0kg
Warranty	2 years	2 years	2 years

VL550 Tungsten / VL550D Tungsten	VL2500 Wash	VLZ Wash	VL3500 Wash
			
Tungsten	MSR	LED	MSR
1200W 120V 1000W 230V	N/A	N/A	N/A
–	–	–	SFc10-4
6010	14,700	25,000	>70,000
1200W	700W	620W	1500W
3200K	5600K	8000K source Variable CTO	6000K
>90	>80	>70	>80
Dicho*Tune	CMY 1 + open fixed colors	CMY, variable CTO 2x fixed color wheels	CMY, 2 5 + open fixed color wheels, variable CTO
6-24° lamp and lens dependent	14-55°	78-50°	24-50° 9.5° zoom by pass
540° / 270°	540° / 270°	540° / 270°	540° / 270°
DMX512-A	DMX512-A	DMX512-A / RDM, Art-Net™	DMX512-A
N/A	N/A	52	N/A
8 channel, 13 channel	1	1	1
External or (D) intergrated IGBGT dimmer	Mechanical glass wheel / dual independent strobe blades	Electronic 16-bit	Mechanical glass wheel / dual independent strobe blades
No	No	No	No
Clear lens (VNSP) Stipple lens (NSP) standard with fixture 8 row lenticular lens (MFL) 10 row lenticular lens (MFL) 12 row lenticular lens (WFL) Buxom lens (VWFL)	–	–	ULTRA clear front lens Stipple front lens Fresnel front lens
100-240VAC, 50/60Hz	200-264V, 50/60Hz	100-240VAC 50/60Hz	200-264V, 50/60Hz
IP20	IP20	IP20	IP20
-29-40°C	-29-40°C	10-45°C	-29-40°C
Metal frame and engineering plastic covers	Metal frame and engineering plastic covers	Metal frame and engineering plastic covers	Metal frame and engineering plastic covers
Black White (to special order)	Black	Black	Black
421 x 454 x 431mm	701 x 477 x 490mm	458 x 316 x 796mm	508 x 838 x 686mm
482mm	483mm	600mm	711mm
19.5kg	26.1kg	39.0kg	44.0kg
2 years	2 years	2 years	2 years

## Washes: SL BEAM 100

The Showline SL BEAM 100 utilizes the Harmonize Color Calibration system. This revolutionary process ensures color matching not only between luminaires, but also between individual pixels of each and every luminaire. Armed with 3 zone control for visual effects, seamless color changes, powerful output, a useful zoom range and creative programming possibilities.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	>90	2800-5800K	150W	5-45°	Electronic 8 and 16-bit	Black	IP21	397 x 229 x 210mm	7.6kg	88-095-5592-36

### Features

- Zoom range of 5-45°.
- Delivers over 1500 lumens of output.
- Up to 3 zones of individual LED control for visual effects.
- Simple user interface.
- Configure remotely via RDM, or locally through the comprehensive Showline LCD menu system.
- DMX512-A control via 5 pin XLRs.
- Built-in color pre-sets, chases and special effects.
- 8 or 16 bit smooth stepless fades.
- Remote configuration available via RDM.
- Extremely compact design.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)



# Washes: SL BEAM 300fx

The Showline SL BEAM 300fx is a high performance moving head luminaire with a difference, that is bright, fast and quiet. The 19 RGBW LEDs deliver exceptional output, and the versatile and effective precision optical design allows the SL BEAM 300fx to function both as a beam as well as a wash luminaire.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
RGBW LED	>90	Variable	350W	4-40°	Electronic 8 and 16-bit	Black	IP20	335x 480 x 290mm	14.5kg	88-095-6182-36

## Accessories

	Order Code
3 way flight case	24-021-0001-00

## Features

- Over 4500 lumens.
- Less than 15kg.
- Delivers 4500 lumens output.
- Crisp tightly collimated beam.
- Powerful blended washes of colour.
- Create entrancing fluid lighting effects with the rotating lens and effects wheel.
- Configure remotely via RDM, or locally through the comprehensive Showline LCD menu system.
- Choice of DMX512-A control via 5-pin XLRs or over Ethernet.
- Pattern mode with 32 dynamic moving animations.
- Harmonize Color Calibration Technology.
- Indexing counter rotating lens and effect wheel.
- Low ambient noise level.
- Fast, accurate movement of all functions including pan/tilt and lenses.
- New effect features.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

# Washes: SL BEAM 500fx

Pumping up the performance of the SL BEAM range, the Showline SL BEAM 500fx is a superb moving-head luminaire that delivers an exceptional output from its 37 RGBW LEDs. Just like its partner in this category, the SL BEAM 500fx is fast and quiet and extremely versatile.

The effective precision optical design allows the SL BEAM 500fx to function as a beam and as a wash luminaire. However, where the luminaire really stands out is through its individual pixel mapping and animation, together with a rotating front lens for multi-beam effects.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	>90	Variable	1200W	5-36°	Electronic 8 and 16-bit	Black	IP20	475 x 605 x 396mm	29.0kg	88-095-6902-36

## Features

- 15,500 lumens of output.
- Crisp tightly collimated beam.
- Powerful blended washes of color.
- Large aperture front lens with 37 fused optics.
- Create entrancing fluid lighting effects with the rotating lens and effects wheel.
- Configure remotely via RDM, or locally through the comprehensive Showline LCD menu system.
- Choice of DMX512-A control via 5 pin XLRs or over Ethernet.
- Pattern mode with 32 dynamic moving animations
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

# Washes: VL550 Wash

The Philips Vari-Lite VL550 Wash features the innovative DICHRO\*TUNE radial color mixing system which employs three sets of 16 radially mounted dichroic filters - magenta, blue and amber - designed to produce smooth, full-spectrum color crossfades.

Available with pastel versions of the standard colors, the pastel colors offer a softer, "Broadway-type" color palette often used in live theater.

Designed with convection cooled lamps and internally cooled electronics which utilize on-demand low velocity, low noise micro-fans. The most economical and lightweight version of the luminaire, the VL550 offers the warm 3200K of the tungsten lamp source, along with weight and space efficiency.



## Product specification

Light source	Type	CRI	Color temp	Wattage max.	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
Tungsten	Standard color dichroic glass	>90	3200K	1200W	6-24° lamp and lens dependent	DMX512-A	Black	IP20	421 x 454 x 431mm	19.5kg	20.9683.0001
Tungsten	Pastel color dichroic glass	>90	3200K	1200W	6-24° lamp and lens dependent	DMX512-A	Black	IP20	421 x 454 x 431mm	19.5kg	20.9683.0011

## Accessories

	Order Code
Clear lens (VNSP)	42.9685.0201
Stipple lens (NSP) standard with fixture	42.9685.0207
8 row lenticular lens (MFL)	42.9685.0203
10 row lenticular lens (MFL)	42.9685.0206
12 row lenticular lens (MFL)	42.9685.0204
Buxom lens (VWFL)	42.9685.0205
USB luminaire programming kit	28.8500.0054

## Features

- Optional 1200W or 1000W tungsten lamp.
- More than 6,000 (120V) or 4,700 (230V) lumens (dependent upon lamp and lens type).
- Pastel and satuarate Dicho\*tune color system.
- Field angle from 13-43.3° (dependent upon lamp and lens type).
- 16 radially mounted diffuser planes to control beam spread.
- Fanless fixture silent running.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

# Washes: VL550D Wash

The Philips Vari-Lite VL550D Wash luminaire features the innovative DICHRO\*TUNE radial mixing system, that employs three sets of 16 radially mounted dichroic filters - magenta, blue and amber - designed to produce smooth, full spectrum color crossfades.

Available with pastel versions of the standard colors. The pastel colors offer a softer, theater color palette often used in live theater. Designed with convection cooled lamps and internally cooled electronics which utilize on-demand low velocity, low noise micro-fans.

The VL550D Wash is most advantageous for those productions that have a limited number of dimmer circuits available. It retains a warm 3200K, and with only a slight increase in weight, provides on-board IGBT dimming without requiring any additional cabling.



## Product specification

Light source	Type	CRI	Color temp	Wattage max.	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
Tungsten	Standard color dichroic glass		3200K	1200W	6-24° lamp and lens dependent	DMX512	Black	IP20	421 x 454 x 431mm	21.8kg	20.9683.0003
Tungsten	Pastel color dichroic glass		3200K	1200W	6-24° lamp and lens dependent	DMX512	Black	IP20	421 x 454 x 431mm	21.8kg	20.9683.0013

## Accessories

	Order Code
Clear lens (VNSP)	42.9685.0201
Stipple lens (NSP) standard with fixture	42.9685.0207
8 row lenticular lens (MFL)	42.9685.0203
10 row lenticular lens (MFL)	42.9685.0206
12 row lenticular lens (MFL)	42.9685.0204
Buxom lens (VWFL)	42.9685.0205
USB luminaire programming kit	28.8500.0054

## Features

- Optional 1200W or 1000W tungsten lamp.
- More than 6,000 (120V) or 4,700 (230V) lumens (dependent upon lamp and lens type).
- Pastel and satuarate Dicho\*tune color system.
- Field angle from 13-43.3° (dependent upon lamp and lens type).
- 16 radially mounted diffuser planes to control beam spread.
- Fanless fixture silent running.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

# Washes: VL2500 Wash

The Philips Vari-Lite VL2500 Wash is an exceptional CMY color mixing system, fast and powerful pan/tilt functions and an impressive zoom range are what set the VL2500 Wash luminaire apart. The VL2500 Wash features a glass dimmer wheel and dual strobe blades providing designers with smooth, even dimming capability and lightning fast strobe.

The VL2500 Wash luminaire is a valuable tool for any project, no matter what type of event it is. It combines small size and quick movement with features one would normally expect in a much larger luminaire.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W	Weight	Order Code
Short Arc	>80	5600K	700W	14-55°	Mechanical glass wheel / dual independent strobe blades	Black	IP20	701 x 477 x 490mm	26.1kg	20.9676.0002

## Accessories

	Order Code
700W Short Arc lamp	71.2528.0700
3200K color correction filter	41.6006.0390
USB luminaire programming kit	28.8500.0054

## Features

- 700W short arc lamp.
- 14,700 lumens.
- Zoom from 14-55.5°.
- Fast color change 0.14second for color snap.
- Flat even color washes.
- Fast zoom speed 1.8s full range zoom.
- CMY color mixing system.
- 11-slot fixed color wheel.
- Separate dual-blade strobe system.
- Coated glass dimmer wheel.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

## Washes: VLZ Wash

The Philips Vari-Lite VLZ Wash is a dedicated wash luminaire utilizing the latest high output LED light engine and a familiar CMY-CTO color system to produce stunning colors. The dual fixed color wheel with linear control gives access to Vari-Lite colors and split color combinations. Color shake and color wheel spin control have also been added to the mix.

All of this is bundled into a luminaire that produces a staggering 25,000 lumens projected from a large 155mm (6") lens.

In addition to the wide zoom range, Beam-Shaping control can be achieved via 3 different systems used independently of each other; a lenticular lens can change the beam from round to oblong; 4 different beam softness grades are achievable using the beam softening control; a set of internal barndoors shape the beam even further.

The combination of the color and beam control makes the VLZ Wash the go-to professional moving wash luminaire.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	.70	8000K source Variable CTO	620W	78-50°	Electronic 16-bit	Black	IP20	458 x 316 x 796mm	39kg	26-105-0003-00

### Features

- 25,000 lumen output.
- 155mm large aperture wash lens.
- High output white light LED light source engine to maintain constant high output light levels.
- Wide zoom range.
- 16-bit dimmer control with 4 selectable curves.
- Color mixing system CMY + CTO color control.
- 12 fixed color - 2 color wheels 6+ open with color shake and wheel spin functions.
- Indexing and rotatable beam shaping system.
- 4 selectable beam edge softness.
- Masking barndoor system with 4 blades frame rotation +/- 50 degree either side of center.
- Fast, accurate and repeatable movement on all functions.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: VL3500 Wash

The Philips Vari-Lite VL3500 Wash luminaire is the high intensity wash tool in the Vari-Lite Series 3000 family of luminaires. With an output that exceeds 70,000 lumens, as well as varied new options for color and beam control, this has become the standard by which all wash lights are measured.

The VL3500 Wash luminaire features internal zoomable beam optics with either fresnel or buxom options, an interchangeable front lens system, and a five-position aperture wheel. The fixture provides CMY color mixing, variable CTO color temperature correction, dual five position color wheels, a separate dimmer, and an independent dual blade strobe mechanism.

In conjunction with its zoomable optics system is the Vari\*Brite mode – from virtually any zoom position, this mode can be engaged to offer a tight column of remarkably intense light.



### Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions H x W	Weight	Order Code
MRS	>80	6000K	1500W	24-50° 9.5° zoom by pass	DMX512-A	Black	IP20	508 x 838 x 686mm	44.0kg	20.9686.0001

### Features

- >70,000 lumens.
- Zoom range 24-40°.
- CMY color mixing system.
- Large aperture front lens.
- Rotatable appature wheel for big size adjustment and continous scroll for unique effects.
- Unqiue Vari-Brite lens system for great beam control.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)



# Philips Lighting Steps into the Light

Celebrated lighting designer Michel Suk has pushed the boundaries of light art once again, selecting 30 Showline SL HYDRUS 350 hybrid luminaires for his latest creation ‘Step into the Light’ – a beautifully immersive piece which joined almost 40 other installations at light art and architecture festival GLOW 2016 in Eindhoven.

Now in its eleventh year, GLOW was originally founded by Philips and the city’s official marketing body Eindhoven365. The festival is produced by the GLOW Foundation Eindhoven, with support from a number of high profile sponsors including Philips Lighting. As visitors from all over Europe meander down the city center and University of Technology walking routes, their journey is punctuated with breathtaking installations, sculptures, projections and performances.

Michel Suk has been involved in the festival since 2006 and doesn’t believe in resting on his laurels, challenging himself to create something uniquely innovative year on year: “Many audiences have seen it all before. Even with the impressive rate that lighting technology is developing, new effects and applications quickly lose their impact. It’s never an easy task to construct a piece that will evoke emotion and please the eye but I relish the opportunity to sharpen my artistic skills.”

For the 2016 edition of the festival, Suk was inspired by the exact location of his piece in the city – Witte Dame, which translates to ‘White Lady’. His concept was therefore to manipulate the pure white beams to create a graceful interplay of light; evoking the movements of a dancer. The Showline SL HYDRUS 350 were positioned in a circle four meters in the air, creating an entrancing effect whether the visitor was standing in the epicenter of the piece gazing up, watching from close by or perceiving it from a great distance.

“The installation had to be relatively high in structure and comprise a large amount of units in order to achieve multiple patterns of light from separate groups,” explains Suk. “I knew I needed a fixture that would work well in outdoor conditions, offering beam shaping capabilities and a very powerful output. The SL HYDRUS 350 fit the bill and presented the chance to use one of the latest fixtures on the market.”





Step into the Light, GLOW 2016, Eindhoven

Lighting designer: Michel Suk

Photography: Frank van Beek

# at GLOW 2016

Suk goes on to say he is impressed by the SL HYDRUS 350's in-built features: "the gobo package is interesting and it has a fantastic zoom ratio. All in all it was a wonderful tool with which to realize my vision. I'd like to thank Philips Lighting for sponsoring my project with these fixtures and providing the missing link in the chain to bring it to life."

Colin Kavanagh, Business Leader for Philips Entertainment Lighting said, "We were thrilled to be involved in the GLOW festival and its celebration of light art. It was an honor to support Michel Suk in his project and we were highly impressed with the beautiful and ingenious way in which he made use of the Philips SL HYDRUS 350 fixtures."



# Hybrids

	SL HYDRUS 350	VL3500 Wash FX	VL4000 BeamWash
	 		
Source	Platinum 17RA	MRS	MSR
Lamp cap	N/A	SFc10-4	PGJX50
Wattage	350W lamp 500W total power	1500W	1200W
Lumen output (max.)	15,000	>50,000	43,000 standard mode 35,000 studio mode
Color temperature	7000K	6000K	6000K
CRI	85	>80	>75
Beam angle	2-22° beam mode 2-25° spot mode 9-37° wash mode	24-50°	10-60° wash mode 4-40° beam mode 4° shaft mode
Lens options	N/A	PC ultra clear PC stipple fresnel	N/A
Pan / tilt	540° / 270°	540° / 270°	540° / 270°
Controls	DMX512-A, Art-Net™	DMX512-A	DMX512-A / RDM
DMX channels	25	22	46 / 41
Color system	Color wheel 10 + open	CMY, 2 5 + open fixed color wheels, variable CTO	CMY, variable CTO 2 color wheel 5 + open
Gobo / effects	12 + open fixed aperture wheel, 6 + open indexing / rotating	4 + open rotating	2 Gobo wheel 6 + open rotating 1 x Index / rotating animation wheel
Independent rotating prism	4 facet linear 8 facet round	No	5 facet linear
Independent frost	Wash mode	No	N/A
Dimmer / strobe	Mechanical	Mechanical glass wheel / independent dual strobe blades	Mechanical glass blades / independent dual strobe blades
Framing shutters / beam shaping	–	N/A	Lenticular lens
Iris	No	No	Yes
Color calibration	N/A	N/A	N/A
Accessories	–	ULTRA clear front lens Stipple front lens Fresnel front lens	–
Operating voltage	100-240VAC, 50/60Hz	200-264VAC, 50/60Hz	200-264VAC, 50/60Hz
IP rating	IP20	IP20	IP20
Operating temperature	45°C	-29-40°C	-29-40°C standard mode -29-50°C studio mode
Construction	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers	Metal frame, engineering plastic covers
Finish	Black	Black	Black
Dimensions L x H x W	421 x 432 x 656mm	508 x 838 x 686mm	5667 x 890 x 735mm
Hanging centers	600mm	711mm	762mm
Weight	24kg	44kg	45.8kg
Warranty	2 years	2 years	2 years

# Hybrids: SL HYDRUS 350

The Showline SL HYDRUS 350 is a hybrid beam / spot / wash moving luminaire designed for special event, television, and concert lighting applications.

Powered by the Philips Platinum 17RA lamp, the luminaire delivers powerful output, great color control and a comprehensive beam effects system in a compact sized luminaire.

The SL HYDRUS 350 is a master of producing fast changing bright colors while still maintaining its high output.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
Philips Platinum 17RA	85	7000K	500W	2-20° 2-25° 9-37°	DMX512-A Art-Net™	Black	IP20	421 x 432 x 656mm	24kg	26-095-0110-00

## Accessories

	Order Code
2 way flight case	24-021-0003-00

## Features

- Beam, spot and wash modes for maximum design flexibility.
- Fixed color wheel with open slot, split color mode and effect mode.
- Fixed gobo / aperture wheel.
- Indexable / rotating gobo wheel with images from the Vari-Lite library.
- Animation wheel for dynamic effects.
- Two rotating beam prisms.
- Choice of DMX512-A or Art-Net™ control.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

# Hybrids: VL3500 Wash FX

The Philips Vari-Lite VL3500 Wash FX has an output that exceeds 70,000 lumens as well as varied options for color and beam control making it the standard by which all wash lights are measured.

The VL3500 Wash FX luminaire features internal zoomable beam optics with either Fresnel or Buxom options, an interchangeable front lens system, and four position plus open rotating FX pattern wheel. The fixture provides CMY color mixing, variable CTO color temperature correction, dual five-position color wheels, a separate dimmer, and an independent dual blade strobe mechanism.

In conjunction with the zoomable optics system is the Vari-Brite mode. From almost any zoom position, this mode can be engaged to offer a tight column of remarkably intense light making the VL3500 Wash FX a versatile wash luminaire.

The VL3500 Wash FX allows users to operate its single lamp at three different wattages via either a control channel setting or a lamp menu option. With only a setting adjustment, the fixture will run its short arc lamp at 900W, 1200W or 1650W without any detrimental effects on the lamp.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
MSR Gold Fastfit	>80	6000K	1500W	24-50°	DMX512-A	Black	IP20	508 x 838 x 686mm	44kg	20.9686.0011

## Accessories

	Order Code
ULTRA clear front lens	21.9686.1617
Stipple front lens	21.9686.0617
Fresnel front lens	21.9686.0619

## Features

- >50,000 lumen output.
- Zoom range of 24-50°.
- Interchangeable front lenses.
- Vari-Brite zoom bypass for narrow 9.5° beam.
- Rotating mid-air effects.
- CMY + variable CTO color mixing.
- 2 fixed color wheel 5 + open
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)

# Hybrids: VL4000 BeamWash

The Philips Vari-Lite VL4000 BeamWash is designed to provide designers, rental companies, venues and productions with a complement of fixtures offering unlimited design possibilities.

Without the need to change lenses, the VL4000 BeamWash combines stunning wash capabilities with intense beam functionality and the ability to produce a powerful collimated shaft of light. Producing 43,000 lumens in standard mode (35,000 studio mode), the VL4000 BeamWash uses a Philips 1200W lamp to provide incredible point-of-source imagery through its 10inch (254mm) front lens.

When used in wash mode, the luminaire provides a 10 to 60 degree zoom range. By simply adjusting a DMX value, the VL4000 BeamWash can shift to an intense beam luminaire with an amazing 4 to 40 degree beam angle, or a Shaft fixture for a powerful, collimated ray of light where the 4 degree beam angle can be further reduced to near zero.



## Product specification

Light source	CRI	Color temp	Wattage	Beam	Dimming	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
MSR Gold Fastfit	>75	RGBW	1200W	10-60° wash mode 4-40° beam mode 4° shaft mode	DMX512-A / RDM	Black	IP20	5667 x 890 x 735mm	45.8kg	20.9704.0002

## Features

- 1200W Philips MSR Gold FastFit lamp.
- Swap from wash to beam with no lens change.
- Image projection is sharper than standard beam fixtures.
- Studio mode for quitter application uses.
- Multiple hanging rail points.
- Dual opposing color wheels.
- Infinity CMY cross fading system.
- 2 fixed color wheels; five positions each.
- Variable CTO color temperature correction.
- Two gobo wheels; seven rotatable, indexable positions plus open.
- Dual coated glass dimmer flags.
- Dual blade strobe system.
- Beam size iris.
- 43,000 lumens (standard mode), 35,000 lumens (studio mode).
- One animation wheel; rotating indexable pattern with variable motion control.
- Wash mode zoom range from 10-60° (6:1 optics system).
- Beam mode zoom range from 4-40° (10:1 optics system).
- Shaft mode zoom range from 4° to near 0°.
- 5 facet step prism.
- Beam and shaft mode indexing and rotating lenticular effect.
- Wash mode indexing and rotating beam shaping.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/vari-lite](http://philips.com/vari-lite)



The Cranberries European Tour 2010

Lighting designer: Sean Burke

# Washes and PARs

Washes and PAR luminaires produce substantial, flat light.

Our range of LED washes and PARs ensure consistent color mixing across all ranges of luminaires, flat even washes and deep saturated colors with a high output punch.



13th Annual Latin Grammy Awards, Las Vegas

Lighting designer: Carlos Colina





# Deep and intense color delivered on A Streetcar Named Desire

Lighting designer Jon Clark has specified Showline SL BAR 640 luminaires on account of their 'impressive' range of colors and clean aesthetic for Benedict Andrew's production of A Streetcar Named Desire at The Young Vic, starring Gillian Anderson.

The 1947 Tennessee Williams classic was staged in the round and broadcast live to over 550 UK cinemas and many more worldwide as part of National Theatre Live. Clark's lighting design consisted of deliberate, uniform systems, which were used to continually re-inform the performance space and the entire room.






"The SL BAR 640 luminaires are rigged in two parallel lines on an exposed grid above the main playing space, embedded in a uniformly hung, 88 Par Can toplight," says Clark. "Often the aesthetic attributes of a unit are almost as significant in an exposed rig as the light it throws, and that was the case with the design of the SL BAR 640 luminaires. Their clean, ordered round lenses sit dynamically within the Par Cans."

The action takes place on a continually revolving open-plan apartment room, designed by Magda Willi. The set is always in motion, and as such the entire stage area is treated as one environment, which the revolving set inhabits. The challenge was to explore this large voluminous space with light, whilst still giving focus to the revolving object travelling through it. This is where the power and intensity of the SL BAR 640 luminaires came in, with Clark choosing them to colorize not only the stage area but the entire auditorium.

"The SL BAR 640 luminaires allow us to achieve a deep and intense color saturation of the space," continues Clark. "The range of colors the units can accurately reproduce is impressive; from dirty, sickly yellows and greens to deeply saturated reds and low frequency blues."

"It's fair to say that a large part of the visual aesthetic of the lighting design is defined by the intensity and colorization that the Showline units deliver," says Clark. "I'm a big fan of the SL BAR 640, alongside the SL STRIP 400, so much so, I've specified both luminaires on the upcoming West End production of Made in Dagenham The Musical."

## Washes

	SL BAND 300	SL STRIP 400	SL SUNLED 10	SL eSTRIP 10	SL STRIP 10 IP
					
Source	RGBW LED TW LED	RGBW LED TW LED	Fixed white LED	RGBW LED	RGBW LED
Qty of LED cells	36	36	10	10	10
Lumen output (max.)	2200 RGBW 1957 TW	2350 RGBW 2570 TW	6000	2721	2240 RGBW
Color temperature	2700-6500K RGBW 2850-6000K TW	2700-6500K RGBW 2850-6000K TW	2700K	2700-6500K RGBW	2700-6500K RGBW
CRI	>90	>90	80	>60	>90
Beam angle	10°	10°	15°	22°	6° 15°, 25°, 11 x 38° diffuser lens
Tilt	–	–	–	–	–
Controls	DMX512-A / RDM, local control, master / slave	DMX512-A / RDM, Art-Net™, local control, master / slave	DMX512-A / RDM, local control	DMX512-A / RDM, local control	DMX512-A / RDM, local control
Dimming control	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit
Pixel / zone control	1	1	1 / 2 / 5 / 10	1 / 2 / 5 / 10	1 / 2 / 5 / 10
DMX modes	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit	8-bit, 16-bit	RGBW 8-bit, RGBW 16-bit	RGBW 8-bit, RGBW 16-bit
Macro effects	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set chases	Pre-set color chases	Pre-set color chases
Color mixing	–	–	–	–	–
Color calibration	Yes	Yes	No	No	No
Software updates	Via PEGASUS	Via PEGASUS	Via PEGASUS	Via PEGASUS	Via PEGASUS
Accessories	Barndoor 20° diffuser (included)	–	–	Barndoor	Diffuser lens kit 15°, 25°, 11 x 38° (included)
Operating voltage	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	110-240VAC, 50/60Hz	100-240VAC, 50/60Hz
Wattage (max.)	65W	90W	150W	150W	150W
IP rating	IP20 or IP65	IP20 or IP65	IP20	IP20	IP65
Cooling	Silent convection cooling	Silent convection cooling	Silent convection cooling	Silent convection cooling	Silent convection cooling
Cooling control	–	–	–	–	–
Operating temperature	-20-40°C	-20-40°C	-20-40°C	40°C	-20-40°C
Mounting position	Any	Any	Any	Any	Any
Finish	Black, white	Silver	Black	Black	Black
Construction	Metal	Metal	Metal	Metal	Metal
Dimensions L x H x W	352 x 152 x 180mm	1000 x 92 x 133mm	1082 x 146 x 130mm	1082 x 130 x 139mm	1076 x 201 x 120mm
Hanging centers	200mm	505mm	545mm	542mm	550mm
Weight	5.0kg	6.0kg	8.8kg	9.0kg	7.55kg
Warranty	2 years	2 years	2 years	2 years	2 years

SL BAR 620	SL BAR 640	SL BAR 660	SL BAR 720ZT	SL BAR 510	SL BAR 520
					
RGBW LED	RGBW LED	RGBW LED	RGBW LED	RGBW LED	RGBW LED
12	24	36	6	4	6
6581 RGBW (30°) 6897 RGBW (60°)	13,360 RGBW (60°)	20,000 RGBW (60°)	5000	2870 RGBW (28°) 3347 RGBW (60°)	6415 RGBW
2700-6500K RGBW	2700-6500K RGBW	2700-6500K RGBW	2700-6500K RGBW	2700-6500K RGBW	2700-6500K RGBW
>90	>90	>90	>90	>90	>90
30° 60°	30° 60°	30° 60°	5.5-38° 9.5-54° field	28° 60°	8°
–	–	–	220° @ 2.4s	–	–
DMX512-A / RDM, local control, master / slave	DMX512-A / RDM, local control, master / slave	DMX512-A / RDM, local control, master / slave	DMX512-A / RDM, Art-Net™, local control	DMX512-A / RDM, local control, master / slave	DMX512-A / RDM, local control, master / slave
Electronic 16-bit	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit
1 / 2 / 3 / 6	1 / 2 / 3 / 4 / 6 / 12	1 / 2 / 3 / 4 / 6 / 12	1 / 6	1 / 2 / 4	1 / 2 / 3 / 6
RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC
Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control
–	–	–	–	–	–
Yes	Yes	Yes	Yes	Yes	Yes
Via PEGASUS	Via PEGASUS	Via PEGASUS	Via PEGASUS	Via PEGASUS	Via PEGASUS
–	–	–	–	Yoke plate (included)	–
100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz
250W	500W	750W	420W	110W	300W
IP20	IP20	IP20	IP20	IP20	IP20
Quiet active cooling	Quiet active cooling	Quiet active cooling	Forced air	Quiet active cooling	Quiet active cooling
Auto / off	Auto / off	Auto / off	Auto / off	Auto / off	Auto / off
-20-40°C	-20-40°C	-20-40°C	0-40°C	-20-40°C	-20-40°C
Any	Any	Any	Any	Any	Any
Black	Black	Black	Black	Black	Black
Metal	Metal	Metal	Metal	Metal	Metal
609 x 227 x 180mm	1219 x 227 x 180mm	1829 x 227 x 180mm	780 x 129 x 354mm	390 x 263 x 103mm	780 x 263 x 103mm
310mm	615mm	920mm	780mm	195mm	390mm
9.0kg	18.0kg	23.0kg	19.0kg	6.9kg	8.8kg
2 years	2 years	2 years	2 years	2 years	2 years

## Washes: SL BAND 300

The Showline SL BAND 300 is a compact rugged luminaire available in either an IP20 or an IP65 model for outdoor applications.

Available in tunable white or full color mixing RGBW models, the SL BAND 300 delivers exceptional light output. The luminaire accepts a range of standard beam spread accessories to adjust the standard 10° beam spread and hanging hardware suitable for any installation.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	65W	10°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	352 x 152 x 180mm	5.0kg	88-095-4122-31
RGBW LED	>90	2700-6500K	65W	10°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP65	352 x 152 x 180mm	5.0kg	88-095-4252-31
TW LED	>90	2850-6000K	65W	10°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	352 x 152 x 180mm	5.0kg	88-095-4122-71
TW LED	>90	2850-6000K	65W	10°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP65	352 x 152 x 180mm	5.0kg	88-095-4252-71

### Accessories

	Finish	Order Code
20° diffuser		28-095-0016-00
4 leaf barndoor	Black	89-095-4120-01

### Features

- 10° beam angle.
- 2200 lumens (RGBW).
- 36 high power LEDs.
- 20° diffuser accessory.
- Integrated accessory slot for tool free insertion of accessories.
- Color gel filter pre-set.
- Chase - strobe + duration effect engine.
- LED and tungsten curves selection.
- CRI/CQS: >90 (RGBW).
- DMX512-A / RDM.
- Local LCD control.
- HSIC, 8-bit RGBW, and 16-bit RGBW.
- Choice of IP65 or IP20 versions
- Two year limited warranty.

### Options available on request

Finishes White

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: SL STRIP 400

The Showline SL STRIP 400 LED luminaire is a compact linear wash luminaire delivering a bright narrow beam.

A wide choice of options makes the SL STRIP 400 suitable for a diverse variety of lighting design applications. Choose the RGBW LED option for washes of color, or the tunable white option for selective grazing and uplighting. For wet applications and outdoor environments, select the IP65 models.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	90W	10°	RGBW 8-bit RGBW 16-bit	Silver	IP20	1000 x 92 x 133mm	6.0kg	88-095-4264-31
RGBW LED	>90	2700-6500K	90W	10°	RGBW 8-bit RGBW 16-bit	Silver	IP65	1000 x 92 x 133mm	6.0kg	88-095-4174-31
TW LED	>90	2850-6000K	90W	10°	RGBW 8-bit RGBW 16-bit	Silver	IP20	1000 x 92 x 133mm	6.0kg	88-095-4264-71
TW LED	>90	2850-6000K	90W	10°	RGBW 8-bit RGBW 16-bit	Silver	IP65	1000 x 92 x 133mm	6.0kg	88-095-4174-71

### Features

- 10° fixed beam angle range.
- 2350 lumens (RGBW).
- 36 high power LEDs.
- Choice of tunable white or RGBW.
- Low power consumption - 90W maximum.
- Choice of IP65 or IP20 versions.
- Color gel filter pre-set.
- Chase - strobe + duration effect engine.
- LED and tungsten curves selection.
- CRI/CQS: >90 (RGBW).
- DMX512-A / RDM.
- Local LCD control.
- 8-bit RGBW, and 16-bit RGBW.
- Slimline construction.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: SL SUNLED 10

The Showline SL SUNLED 10 has ten cells of fixed white LEDs to deliver a blended wash of warm white light. Similar to the traditional and popular halogen strip light effect, the SUNLED 10 offers reduced power consumption, low heat output, and minimal maintenance. A tungsten mimic option shifts the color temperature as the luminaire dims, providing the distinctive warm tungsten feel at lower light levels. The SL SUNLED 10 can easily replace the halogen striplight effect in your designs without compromising the look and feel of your production.

Silent passive cooling ideal for studio environments. Multiple mounting points allows innovative hanging positions.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
Fixed white LED	80	2700K	150W	15°	8-bit 16-bit	Black	IP20	1082 x 146 x 130mm	8.8kg	88-095-5662-76

### Features

- Delivers 6000 lumens of output.
- 15° beam angle.
- Up to ten zones of LED control.
- Low power consumption - 150W maximum.
- Simple cost effective MR16 strip light replacement.
- Multiple mounting points allows for a variety of rigging positions.
- Rugged construction.
- Configure remotely via RDM, or locally through a simple Showline LCD menu system.
- DMX512-A control via 5 pin XLRs.
- Comprehensive Showline LCD menu system.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: SL eSTRIP 10

The Showline SL eSTRIP 10 has ten cells of homogenized RGBW LEDs that deliver a blended wash of color.

The RGBW color mixing and fade control allows you to color mix and create an additional halogen strip light effect. Control each cell individually for maximum flexibility, or in groups for applications requiring simpler control.

With its rugged construction, internal power supply and simple operating system, the SL eSTRIP 10 is an ideal replacement for conventional MR16 strip lights for all entertainment applications.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>60	2700-6500K	150W	22°	RGBW 8-bit RGBW 16-bit	Black	IP20	1082 x 130 x 139mm	9.0kg	88-095-5642-36

### Accessories

	Finish	Order Code
Barndoor	Black	89-020-5640-00

### Features

- 22° beam angle.
- 2721 lumens.
- 10 homogenized RGBW LED units.
- Low power consumption - 150W maximum.
- Simple cost effective MR16 strip light replacement.
- 8 or 16-bit smooth stepless fades.
- Simple user interface.
- Remote configuration available via DMX512-A / RDM.
- Multiple mounting points allows for a variety of rigging positions.
- Optional barndoor accessory for masking control.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: SL STRIP 10 IP

The Showline SL STRIP 10 IP is the ideal choice for outdoor entertainment applications, and wet environments.

Ten cells of homogenized RGBW LEDs deliver a blended wash of color, emulating the traditional halogen strip light effect, with reduced power consumption, lower heat output, and minimal maintenance.

Control each cell individually for maximum flexibility, or in groups for applications requiring simpler control. Choose the appropriate dimming curve, utilize the in-built chase programs, and adjust the beam angle by inserting one of the included holographic diffuser lenses.

With its rugged construction, internal power supply and simple operating system, the SL STRIP 10 IP is an ideal replacement for conventional MR16 strip lights for all outdoor entertainment applications.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	150W	6° 15°, 25°, 11 x 38° diffuser lenses	RGBW 8-bit, RGBW 16-bit	Black	IP65	1076 x 201 x 120mm	7.55kg	88-095-5822-36

### Accessories

	Order Code
Replacement holographic diffuser lens kit – 15°, 25°, 11 x 38°	89-020-5820-00
DMX input cable (male 5-pin XLR to female IP data connector)	17-017-0729-00
DMX Input cable to cable (female IP data connector to male 5-pin XLR)	17-017-0753-00
Power input cable (bare end to female IP power connector)	17-017-0756-00
DMX input cable IP (male IP power connector to bare end)	17-017-0755-00

### Features

- 6° native beam angle.
- 2240 lumens (RGBW).
- Low power consumption - 150W maximum.
- Supplied complete with 15°, 25° and 11 x 38° holographic diffuser lenses.
- Rugged construction.
- 10 pcs high quality LEDs for exceptional output and color.
- IP65 for wet locations and outdoor use.
- Use inside or outside - effective passive cooling design delivers uncompromised saturated color performance.
- 8 or 16-bit DMX512-A operation – 1 pixel / 2 pixel / 5 pixel / 10 pixel.
- On-board LCD menu system for address and set-up.
- Remote configuration via DMX512-A / RDM.
- 5 pin DMX512-A / RDM in and thru connections.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)



## Washes: SL BAR 620

A powerful 2-foot RGBW LED linear wash luminaire which offers unprecedented output and exceptional color clarity ideal for any entertainment application.

The Showline SL BAR 620 can be used for either illumination or direct view purposes to make a bold statement in any production. Whether used in place of R40 strips, border-lights, foot-lights, cyc-lights or for exciting animations, this luminaire provides incredible coverage and color washing abilities.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	250W	60°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	609 x 227 x 180mm	9.0kg	88-095-4942-37
RGBW LED	>90	2700-6500K	250W	30°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	609 x 227 x 180mm	9.0kg	88-095-5172-38

### Features

- 60° or 30° beam angle models.
- 6897 lumens (RGBW 60°).
- 12 RGBW LEDs.
- Exceptional output from a powerful blended beam.
- Compact overall dimensions allow installation in tight spaces.
- Color gel filter pre-set.
- Strobe + duration effect engine.
- LED and tungsten curves selection.
- Harmonize color calibration.
- CRI/CQS: 90 (RGBW).
- DMX512-A / RDM.
- Color LCD intuitive menu system.
- HSIC, 8-bit RGBW, and 16-bit RGBW control.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: SL BAR 640 and SL BAR 660

The Showline SL BAR 640 4-foot and SL BAR 660 6-foot luminaires are powerful RGBW linear washes which deliver exceptional light output and endless creative possibilities.

Whether used as a wash or as a direct-view linear bar, the homogenized output of the Showline SL BAR 640 and 660 will add to any production. With independent module control of the pixels and simple batten connections that provide maximum flexibility and originality.



### SL BAR 640

#### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	500W	60°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	1219 x 227 x 180mm	18.0kg	88-095-4162-37
RGBW LED	>90	2700-6500K	500W	30°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	1219 x 227 x 180mm	18.0kg	88-095-5182-38



### SL BAR 660

#### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	750W	60°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	1829 x 227 x 180mm	23.0kg	88-095-4242-37
RGBW LED	>90	2700-6500K	750W	30°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	1829 x 227 x 180mm	23.0kg	88-095-5192-38

#### Features

- 60° or 30° beam angle models.
- SL BAR 640 13,360 lumens (RGBW 60°), SL BAR 660 20,000 lumens (RGBW 60°).
- Exceptional output from a powerful blended beam.
- Ideal for general illumination of medium and large sized venues.
- Exciting pre-set effect color chases enable the quick creation of dynamic direct view looks.
- Excellent active cooling design performs quietly without compromising output.
- Color gel filter pre-set.
- Strobe + duration effect engine.
- LED and tungsten curves selection.
- Harmonize color calibration.
- CRI/CQS: 90 (RGBW).
- DMX512-A / RDM.
- Color LCD intuitive menu system.
- HSIC, 8-bit RGBW, and 16-bit RGBW control.
- Two year limited warranty.

#### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

# Washes: SL BAR 720ZT

The SL BAR 720ZT is a high performance linear wash and effect luminaire.

DMX motorized zoom and tilt combined with powerful output make the SL BAR 720ZT an ideal solution for blended linear washes and distinctive dynamic beam effects.



## Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	420W	5.5-38° 9.5-54° field	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	780 x 129 x 354mm	19.0kg	88-095-6682-36

## Features

- 5000 lumens.
- Low power consumption - 420W maximum.
- 5.5-30° zoom range.
- High output saturated colors mid-air effects.
- Designed to withstand the riggers of the entertainment industry.
- Easy install utilizing detachable 1/2 turn Omega clamps for quick swap over from floor to hang.
- Easy removable front lens for infield cleaning.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: SL BAR 510

The Showline SL BAR 510 offers greater creative freedom by delivering exceptional output from multiple blended sources. Each of the four homogenized RGBW LED cells deliver flat, even, fully blended washes of color.

This high output LED luminaire easily adapts to any production environment as it retains a traditional light source appearance. The SL BAR 510, SL BAR 520 and SL NITRO 510 can all be interconnected.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	110W	60°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	390 x 263 x 103mm	6.9kg	88-095-5892-37
RGBW LED	>90	2700-6500K	110W	28°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	390 x 263 x 103mm	6.9kg	88-095-5772-36

### Features

- 60° or 28° beam angle.
- 3347 lumens (RGBW 60°).
- Quick connect system retains perfect pixel pitch.
- Quick connect system enables luminaires to be joined together side to side and top to bottom.
- Quick connect system compatible with SL BAR 520 and SL NITRO series.
- Compact overall dimensions allow installation in tight spaces.
- Harmonize color calibration.
- Built-in color pre-sets, effects and chases.
- 8 or 16-bit smooth stepless fades.
- Simple user interface.
- Remote configuration available via RDM.
- Quick connect system.
- Pixel control.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## Washes: SL BAR 520

The Showline SL BAR 510 offers greater creative freedom by delivering exceptional output from multiple blended sources. Each of the six homogenized RGBW LEDs cells deliver flat, even, fully blended washes of color.

The high output LED luminaire easily adapts to any production environment as it retains a traditional light source appearance. The SL BAR 510, SL BAR 520 and SL NITRO 510 can all be interconnected.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	300W	8°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	780 x 263 x 103mm	8.8kg	88-095-4442-36

### Features

- 8° beam angle.
- 6415 lumens.
- 6 independent control cells.
- Powerful narrow beam.
- Quick connect system enables luminaires to be joined together side to side and top to bottom.
- Quick connect system compatible with SL BAR 510 and SL NITRO series.
- Compact overall dimensions allow installation in tight spaces.
- Color gel filter preset.
- Strobe + duration effect engine.
- LED and tungsten curves selection.
- Harmonize color calibration.
- CRI/CQS: 90 (RGBW).
- DMX512-A / RDM.
- Color LCD intuitive menu system.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

# Showline floods **Seven Brides for**



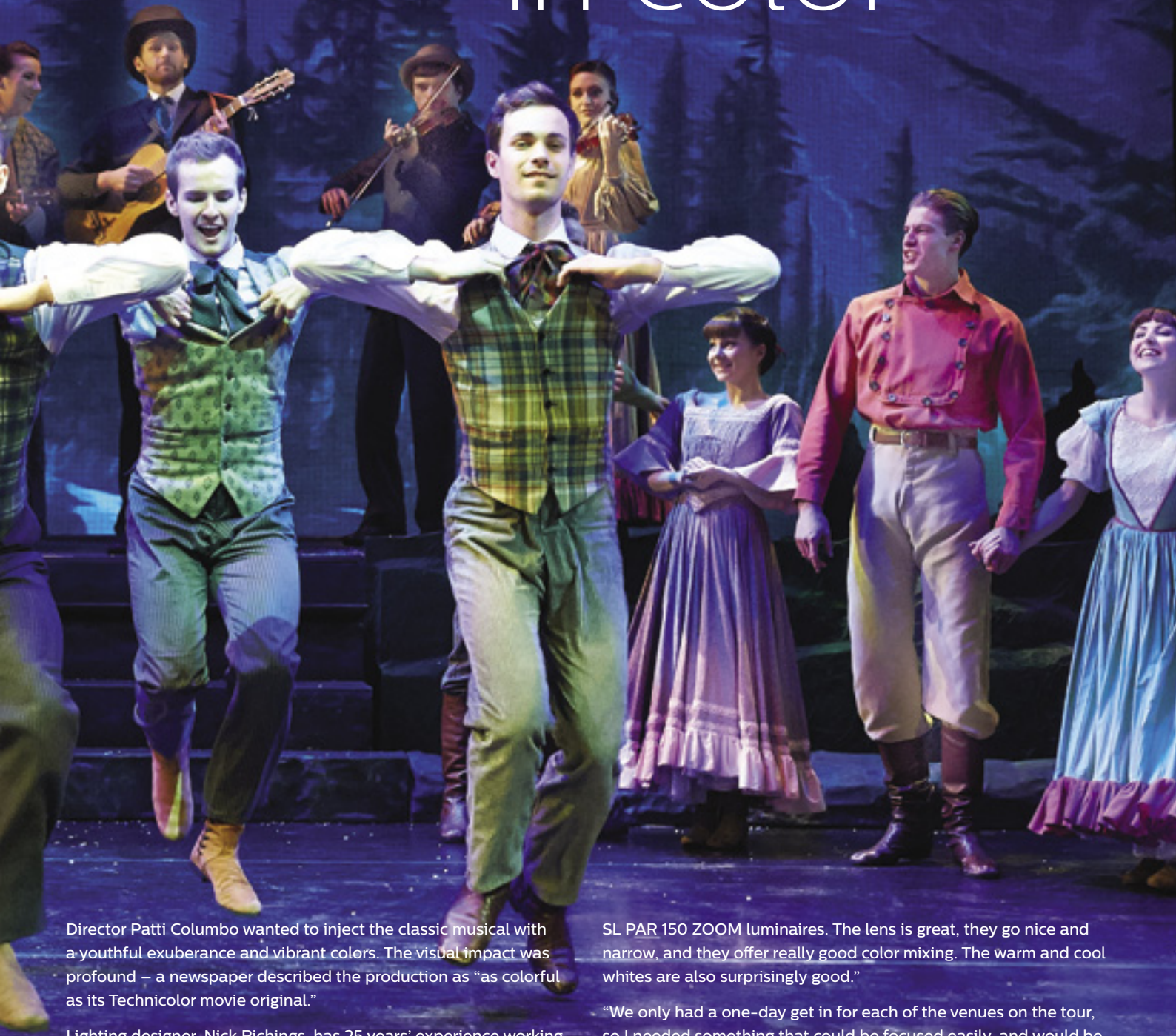
When a new stage version of *Seven Brides for Seven Brothers* hit the UK, the Showline high-output SL PAR 150 ZOOM was brought in to match the production's vivacious energy.

Seven Brides for Seven Brothers, The Social Dance

Lighting designer: Nick Richings

Photography: Geriant Lewis

# Seven Brothers in color







Director Patti Columbo wanted to inject the classic musical with a youthful exuberance and vibrant colors. The visual impact was profound – a newspaper described the production as “as colorful as its Technicolor movie original.”

Lighting designer, Nick Richings, has 25 years’ experience working in theater lighting in the West End and Broadway. He used the Philips Showline SL PAR 150 ZOOM to wash the stage in bright, dynamic colors. “I’m really impressed with the light output of the

SL PAR 150 ZOOM luminaires. The lens is great, they go nice and narrow, and they offer really good color mixing. The warm and cool whites are also surprisingly good.”

“We only had a one-day get in for each of the venues on the tour, so I needed something that could be focused easily, and would be reliable and rugged. The SL PAR 150 ZOOM luminaires performed great in all those aspects.”

## PARs

	SL ePAR 180	SL PAR 150 ZOOM	SL PAR 155 ZOOM	SL PUNCHLITE 220
				
Source	RGBW LED	RGBW LED	RGBW LED	RGBW LED
Qty of LED cells	19	9	9	18
Lumen output (max.)	4400	2340	3200	3500
Color temperature	2700-6500K	2700-6500K	2700-6500K	2700-6500K
CRI	>90	>90	>90	>90
Beam angle	21°	15-70°	8-40°	8-40°
Tilt	–	–	–	–
Controls	DMX512-A / RDM, local control	DMX512-A / RDM, local control	DMX512-A / RDM, local control	DMX512-A / RDM, local control
Dimming control	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit	Electronic 16-bit
Pixel / zone control	1	1	1	3 / 6
DMX modes	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC	RGBW 8-bit, RGBW 16-bit, HSIC
Macro effects	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control	Pre-set filter colors, color chases, strobe and duration control
Color mixing	–	–	–	–
Color calibration	Yes	Yes	Yes	Yes
Software updates	Via PEGASUS	Via PEGASUS	Via PEGASUS	Via PEGASUS
Accessories	–	Barndoor	Barndoor	Barndoor Barndoor mounting kit Snoot
Operating voltage	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz
Wattage (max.)	180W	150W	150W	230W
IP rating	IP20	IP20	IP20	IP65
Cooling	Quiet active cooling	Quiet active cooling	Quiet active cooling	Silent convection cooling
Cooling control	Auto / off	Auto / off	Auto / off	–
Operating temperature	-20-40°C	-20-40°C	-20-40°C	-20-40°C
Mounting position	Any	Any	Any	Any
Finish	Black	Black	Black	Black
Construction	Metal	Metal	Metal	Metal
Dimensions L x H x W	281 x 310 x 234mm	317 x 274 x 413mm	317 x 274 x 413mm	320 x 254 x 252mm
Hanging centers	175mm	160mm	160mm	200mm
Weight	4.5kg	8.0kg	8.0kg	10.4kg
Warranty	2 years	2 years	2 years	2 years



## PARs: SL ePAR 180

The Philips Showline SL ePAR 180 uses 19 homogenized RGBW LEDs to produce 4,400 lumens of output.

With its uniform color, high output and excellent reliability, the SL ePAR 180 is an ideal energy saving replacement for halogen PAR luminaires.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700-6500K	180W	21°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	281 x 310 x 234mm	4.5kg	88-095-5212-37

### Features

- 21° beam angle.
- 4,400 lumens.
- 19 high power RGBW LEDs.
- Powerful blended output.
- Simple fixed beam angle for uniform performance.
- Compact lightweight construction.
- Color gel filter pre-set.
- Chase - strobe + duration effect engine.
- LED and tungsten curves selection.
- Harmonize color calibration.
- DMX512-A / RDM.
- Local LCD menu system.
- HSIC, 8-bit RGBW, and 16-bit RGBW control.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## PARs: SL PAR 150 ZOOM and 155 ZOOM

The Showline SL PAR 150 ZOOM and SL PAR 155 ZOOM are die-cast aluminium LED luminaires producing 2340 and 3200 lumens of output respectively. The manual zoom allows the luminaires to quickly adjust beam angle from spot to flood, while the split yoke bracket allows for easy hanging or floor mounting.

The SL PAR 150 ZOOM has a useful 15–70 degree beam angle range – the wide angle flood is ideal for short throw washes. The SL PAR 155 ZOOM has a useful 8–40 degree beam angle range – the narrow angle for tightly focused spot on performer.



### SL PAR 150 ZOOM

#### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700–6500K	150W	15–70°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	317 x 274 x 413mm	8.0kg	88-095-4182-36

### SL PAR 155 ZOOM

#### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700–6500K	150W	8–40°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP20	317 x 274 x 413mm	8.0kg	88-095-4182-37

#### Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDRA

#### Features

- SL PAR 150 Zoom 15–70° beam angle.
- SL PAR 155 Zoom 8–40° beam angle.
- SL PAR 150 Zoom 2340 lumens.
- SL PAR 155 Zoom 3200 lumens.
- Harmonize color calibration.
- Built-in color pre-sets, effects and chases.
- 8 or 16-bit smooth stepless fades.
- Simple user interface.
- Remote configuration available via RDM.
- Solid robust construction.
- Two year limited warranty.

#### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## PARs: SL PUNCHLITE 220

The Showline SL PUNCHLITE 220 is a high performance luminaire, delivering a powerful blended beam.

Rated for outdoor use, the SL PUNCHLITE 220's motorized zoom ensures full IP65 rating while delivering focus flexibility – ideal for large outdoor stages and permanent outdoor applications.

The innovative and large motorized zoom range of 8–40° delivers flexibility to your lighting design. The honeycomb lens design maximizes the light emitting surface and delivers a powerful blended output. Beam control can be further managed with optional barndoor or snoot accessories. The effective passive cooling design delivers uncompromised saturated color performance.

Ideal to highlight performers, objects or building elements with a narrow shaft of light, or flood a wide area with a powerful wash of color.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x H x W	Weight	Order Code
RGBW LED	>90	2700–6500K	230W	8–40°	RGBW 8-bit RGBW 16-bit HSIC	Black	IP65	320 x 254 x 252mm	10.4kg	88-095-6092-36

### Accessories

	Finish	Order Code
4 leaf barndoor	Black	20BDSF2020
Barndoor mounting kit	Black	89-020-6090-00
Snoot	Black	28-002-1450-00
DMX input cable (male 5-pin XLR to female IP data connector)		17-017-0729-00
DMX Input cable to cable (female IP data connector to male 5-pin XLR)		17-017-0753-00
Power input cable (bare end to female IP power connector)		17-017-0756-00
DMX input cable IP (male IP power connector to bare end)		17-017-0755-00

### Features

- Delivers 3500 lumens of output.
- 8–40° beam angle.
- Rugged construction.
- 18 pcs high quality LEDs for exceptional output and color.
- IP65 for wet locations and outdoor use.
- Motorized optical system, featuring unmatched zoom (8°–40°) and delivering fully blended even light.
- 8 or 16-bit DMX512-A operation.
- On-board LCD menu system for address and set-up.
- Remote configuration via RDM.
- 5-pin DMX512-A / RDM in and thru connections.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)



National Theatre River Stage, London

Lighting designer: Huw Llewellyn

Photography: James Bellorini

# FX lights

Our Showline FX fixtures empower you to deliver diverse and exciting designs.

Bring an extra edge to your lighting design with a range of FX luminaires with innovative features, allowing you to excite and engage your audience. Connect multiple luminaires to form unique designs and realise your creative goals.

WHITE Dubai

Lighting designer: Dave Parry

Photography: WHITE Dubai



## Philips FX lights – key benefits

- Harmonizing color calibration technology ensures consistent color matching between all Philips Showline luminaires.
- Unique quick connect system allows easy horizontal or vertical joining of multiple units.
- Unlimited continuous on and continuous strobe operation.
- Comprehensive pre-programmed special effects for fast programming.
- Color gel filter pre-sets for fast color matching.
- 8 or 16-bit DMX512-A operation for smooth stepless fades.
- Fast accurate movement for pan, tilt and zoom.
- Intuitive user interface for fast configuration.



CHVRCHES, Brixton Academy

Lighting designer: Louis Oliver & James Scott, Okulus



Photography: Giles Smith

“The SL NITRO 510C was perfect for the stabbing strobe effects during the show. They use a fraction of the power compared to our previous strobes and double up as a wash unit which is fantastic.”



Louis Oliver

# FX lights

Excite, engage and release you creative goals.

	SL eSTROBE 130	SL NITRO 510
		
Source	LED	LED
Qty of LEDs	576	1350
Lumen output (max.)	28000	>68000
Color temperature	6500K	6500K
CRI	>90	>90
Beam Angle	120°	120°
Tilt	270°	180°
Controls	DMX 512A (RDM) Local LCD control	DMX 512A (RDM) Local LCD control Master / slave
Dimming control	Electronic 16-bit	Electronic 16-bit
Pixel / zone control	1 / 4 zones	1 / 6 zones
DMX modes	3 channels 4 channels 16-bit control Zone mapping	Classic 1, 3, & 4 channel 16-bit control 16-bit zone mapping
Variable strobe	0-650 ms	0-650 ms
Strobe rate	0-30 flashes/second	0-30 flashes/second
Blinder effect	Full on capability of nearly unlimited duration without any loss of output	Full on capability of nearly unlimited duration without any loss of output
Special effects	Ramp up, ramp down, ramp up-down, random flash, single flash, zone chases & shapes	Ramp up, ramp down, ramp up-down, random flash, single flash, zone chases & shapes
Color calibration	-	-
Software updates	Via PEGASUS	Via PEGASUS
Cooling	Fan	Fan
Cooling control	Auto	Auto / OFF
Accessories	-	-
Operating voltage	100-240VAC	100-240VAC
Operating temperature	1-40°C	-20-40°C
Wattage max.	150W	360W
IP Rating	IP20	IP20
Finish	Black	Black
Mounting position	Any	Any
Hanging centers	175mm	195mm
Dimensions L x W x H	235 x 218 x 302mm	390 x 263 x 103mm
Weight	5.5kg	8.0kg
Warranty	2 years	2 years



SL NITRO 510C	SL PARBLAZER 100 UV
	
LED	LED
264 RGB 264 white	40
>24000 RGB >48000 white	22000mW
RGBW 2700-6500K	UV 395nm
>90	-
120°	20°
180°	270°
DMX 512A (RDM) Local LCD control Master / slave	DMX 512A (RDM) Local LCD control
Electronic 16-bit	Electronic 16-bit
1 / 6 zones	-
Full RGB & W Expanded RGB & W 16-bit RGB & W 8-bit RGB & W 6 channel mode 16-bit mapping	8-bit 16-bit
0-650 ms	-
0-30 flashes/second	-
Full on capability of nearly unlimited duration without any loss of output	-
Ramp up, ramp down, ramp up-down, random flash, single flash, zone chases & shapes Color zone chases, white zone chases, random white flash on color background	-
DMX / manual	-
Via PEGASUS	Via PEGASUS
Fan	Convection
Auto / OFF	-
-	-
100-240VAC	100-240VAC
-20-40°C	-20-40°C
360W	100W
IP20	IP65
Black	Black
Any	Any
195mm	200mm
390 x 263 x 103mm	352 x 276 x 202mm
8.0kg	8.1kg
2 years	2 years

# FX lights: SL eSTROBE 130

The Showline SL eSTROBE 130 blasts 28,000 lumens of bright white light from 576 LEDs. The compact size and four individual zones of control allow for exciting and dynamic strobe effects.



## Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	>90	6500K	150W	120°	3 channels 4 channels 16-bit control Zone mapping	Black	IP20	235 x 218 x 302mm	5.5kg	88-095-5302-50

## Features

- 120° beam angle.
- 28,000 lumens.
- 576 of 6500K LEDs.
- Excellent active cooling design performs quietly and allows extended operation in full on mode - can be used as a flood.
- Chase - strobe + duration effect engine.
- LED and tungsten curves selection.
- Exciting multi zone macro chases enable the quick creation of dynamic strobe effects.
- DMX512-A / RDM.
- Local LCD menu system.
- 1 channel, 3 channels, 4 channels, 16-bit, and zone mapping control.
- Compact lightweight construction
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## FX lights: SL NITRO 510

The Showline SL NITRO 510 is a cutting-edge, LED- based strobe that provides intense bursts of light and dynamic effects with over 1300 high-powered LEDs which produce 68,000 lumens of output.

The fixture also includes features such as continuous-on, continuous full strobe, plus a built-in quick-connect system that allows units to easily connect together in both horizontal and vertical orientations, maintaining a perfect pixel pitch alignment of each fixture's six programable zones.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	>90	6500K	360W	120°	Classic 1, 3, & 4 channel 16-bit control 16-bit zone mapping	Black	IP20	390 x 263 x 103mm	8.0kg	88-095-4492-50

### Features

- 120° beam angle.
- >68,000 lumens.
- Six independent zones.
- Quick-connect system enables luminaires to be joined together side to side and top to bottom.
- Quick-connect system compatible with SL NITRO series and SL BAR 520.
- Exciting multi zone macro chases enable the quick creation of dynamic effects.
- Unlimited continuous on and continuous strobe operation.
- 1350 high power white SMD LEDs.
- Variable strobe: 0-650 ms.
- Strobe rate: 0-30 flashes/second.
- Pre-programed special effects.
- DMX512-A / RDM.
- Color LCD intuitive menu system.
- "Classic" 1, 3, and 4 channel, 16-bit, and zone mapping control.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## FX lights: SL NITRO 510C

The Showline SL NITRO 510C RGB & W LED strobe follows the success of the original SL NITRO 510 as it provides high output white along with RGB capabilities in the same compact luminaire.

Continuous on/strobing abilities, six independent zones and a unique quick-connect system make the SL NITRO 510C stand out on any stage.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	>90	RGB 6500K	360W	120°	Full RGB & W Expanded RGB & W 16-bit RGB & W 8-bit RGB & W 6 channel mode 16-bit mapping	Black	IP20	390 x 263 x 103mm	8.0kg	88-095-4492-30

### Features

- 120° beam angle.
- >50,000 lumens.
- Six independent zones.
- Separate white emitters deliver a true white strobe effect without compromising performance.
- Unlimited continuous on and continuous strobe operation.
- Quick-connect system enables luminaires to be joined together side to side and top to bottom.
- Quick-connect system compatible with SL NITRO series and SL BAR 520.
- 264 high power white SMD LEDs.
- 264 high power RGB color SMD LEDs.
- Variable strobe: 0-650 ms.
- Exciting multi-zone macro chases enable the quick creation of dynamic color and strobe effects.
- Strobe rate: 0-30 flashes/second.
- Pre-programed special effects.
- DMX512-A / RDM.
- Local LCD menu system.
- 8-bit and 16-bit RGB and W control; 6 channel mode.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)

## FX lights: SL PARBLAZER 100 UV

The Showline SL PARBLAZER 100 UV is a high performance UV PAR luminaire that delivers a powerful output. It generates 395nm UV light from 40 LED emitters, and produces the distinctive visible glow that brings reactive materials and objects leaping into life.



### Product specification

Light source	CRI	Color temp	Wattage max.	Beam	DMX modes	Housing	IP rating	Overall dimensions L x W x H	Weight	Order Code
LED	–	UV	100W	20°	8-bit 16-bit	Black	IP65	352 x 276 x 202mm	8.1kg	88-095-6382-77

### Features

- 22000mW.
- Rugged construction.
- 40 high quality LEDs.
- UV 395nm.
- IP65 for wet locations and outdoor use.
- Optical system narrow 20° beam (38° field).
- Flicker free.
- 8 or 16-bit DMX512-A operations.
- On-board LCD menu system for address and set-up.
- Remote configuration via RDM.
- 5pin DMX- (RDM) in and thru connections
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/showline](http://philips.com/showline)



# Showline delivers output on

Lighting designers Willie Botha and Matthew Meyer employed an array of Showline SL NITRO 510 LED strobes to give extra eye candy and punch to the tenth edition of Rocking the Daisies festival.

One of South Africa's biggest music events, the festival takes place at the Cloof Wine Estate in Darling over four days and sees a line up of international artists and DJs. The 12 SL NITRO 510 strobes, supplied by event producer and supplier Kilowatt AV, were rigged at the 'Electronic Dome' EDM stage.

"Our concept was to immerse the crowd in a high-octane visual experience," explains Botha. "We wanted it to feel as if the action started on the stage and then stretched out over and around the crowd." Meyer and Botha therefore positioned the strobes behind the DJ booth, up into the stage's domed roof and over the audience. They worked alongside more than a hundred LED panels that surrounded the stage and dance floor to create a plethora of crowd-mesmerizing looks.

"The immense output from these little beasts meant they had no problem keeping up with the rest of the lighting or even the LED screens," continues Botha. "Their versatility



# immense Rocking the Daisies

combined with the positioning meant that we could either submerge the crowd in a strobe effect or use them as mind-blowing blinders from the front.”

The SL NITRO 510 LED strobe luminaires tightly packed array of more than 1300 high power LEDs ensures maximum output of more than 68,000 lumens. Its six zones of control allow ultimate flexibility while unique built-in chases aid in creativity and simplicity.

“In single flash mode the chase possibilities are endless, while using the zone mapping at lower intensities made for some interesting eye candy effects,” says Botha. “Not to mention, Rocking the Daisies is well known for being a green festival so the pressure is always on to keep the power consumption to a bare minimum. When compared to traditional strobe and blinder fixtures the SL NITRO 510 draws barely any power and this definitely counted in its favor.”

Rocking the Daisies Festival, South Africa

Lighting designer: Willie Botha & Matthew Meyer

CHVRCHES, Brixton Academy

Lighting designer: Louis Oliver & James Scott, Okulus

Photography: Giles Smith





# Display lighting

Philips display luminaires extend our theatrical heritage to the art of display lighting. “Theater on the inside” is a recurring theme that our design and optical engineers have applied to every display product where we design each product around our core principles of precision, performance, simplicity and safety. Our display luminaires include secure settings to maintain your project’s design parameters over extended periods of time and are designed for ease of maintenance and operation.

Newport Street Gallery, London

Lighting designer: Rupert Barth von Wehrenalp  
Fine Art Lighting



# Selecon creates spectacle at

Hundreds of original Stones' artefacts were showcased in all their glory by Philips Selecon, over two floors of the Saatchi Gallery. EXHIBITIONISM charts the Rolling Stones' 50-year music career.



# rock 'n' roll Exhibitionism

White Light oversaw the entire lighting installation for the ground-breaking exhibition, collaborating with lighting designers, Woodroffe Bassett, and the exhibition's producers, IEC, to create something visually stunning yet practical. The design included 65 Accent LED BeamSpots and 122 Accent LED BeamShapers.




White Light spent two weeks pre-rigging at its Wimbledon base before spending three weeks on site at the Saatchi Gallery, west London. For Simon Needle, preparation was crucial given the huge amount of work involved for such a large-scale, high-profile installation: "One of our many tasks was to devise an intricate series of rigging plots, diagrams, schedules and time-sheets to ensure that we were always on schedule."

"The lighting for the exhibition had to be very specific," explains Simon Needle, White Light's Special Projects Director. "Firstly, it had to be track mountable. Secondly, it was important that we used as much LED as possible. The exhibition was open every day and there was limited power within the gallery, therefore LED was the most energy efficient."



The challenge was complicated by having to create a lighting set-up that could also be taken on a four-year tour across 11 cities after the exhibition: "The brief was to not only create something that could get the most out of the unique displays, but would also be tourable, ensuring every single city gets the best experience possible," adds Needle.



# Spotlights

	Accent LED BeamSpot	Accent LED BeamShaper	SDP
			
Source	LED	LED	LED
Wattage	13W	13W	41W
Lamp cap	—	—	—
Color temperature	2700K / 702 3000K / 822 4000K / 848	2700K / 252 @ 23° 3000K / 267 @ 23° 4000K / 309 @ 23°	2700K 3000K 4000K
CRI / color consistency	95 / within 2-step MacAdam ellipse	95 / within 2-step MacAdam ellipse	95 / within 2-step MacAdam ellipse
Beam angle	26° 34° 42°	24-39°	16-35° 30-50°
Rotation / tilt	350° / 135°	350° / 135°	350° / 135°
Dimming	Local DALI	Local DALI	Local DALI
Gobo size	—	E	E
Filter size	Ø50mm	Ø50mm	Ø93mm
Filters	Dichroic UV glass Cross prismatic Frosted Industrex Skytex linear Obscure Sandblasted Solite soft Colored glass Anti-glare honeycomb	Dichroic UV glass Cross prismatic Frosted Industrex Skytex linear Obscure Sandblasted Solite soft Colored glass Anti-glare honeycomb	Medium diffusion glass
Accessories	Barndoor Snoot - available in black, white or black interior/white exterior	—	Color frame for plastic filters
Mounting	Universal 3-circuit track adapter Global or Eutrac Ceiling mount rose Flexible mains cable with C-clamp	Universal 3-circuit track adapter Global or Eutrac Ceiling mount rose Flexible mains cable with C-clamp	Universal 3-circuit track adapter Global or Eutrac Ceiling mount rose Flexible mains cable with C-clamp
Operating voltage	220-240V	220-240V	220-240V
Frequency	50/60Hz	50/60Hz	50/60Hz
Current draw	0.35A @ 240V	0.35A @ 240V	0.12A @ 240V
Total power consumption	13W	13W	41W
Life	50,000hrs (L70)	50,000hrs (L70)	50,000hrs (L70)
Ambient temperature	Max. TA =25°C	Max. TA =25°C	Max. TA =25°C
IP Rating	IP20	IP20	IP20
Finish	White (PANTONE® 11-4800 - Blanc de Blanc) Matt Charcoal Black	White (PANTONE® 11-4800 - Blanc de Blanc) Matt Charcoal Black	White (PANTONE® 11-4800 - Blanc de Blanc) Matt Charcoal Black
Dimensions D x H x W (maximum)	130 x 172 x 124mm	322 x 172 x 159mm	325 x 230 x 151mm
Weight	1.10kg	1.90kg	2.94kg
Warranty	3 years	3 years	3 years

## Wall washers

Accent BeamSpot	Fresco LED Wall Washer
	
Tungsten or LED MR16	LED
50W max.	13W 19W
MR16	—
—	3000K / 769 3000K / 1173
—	95 / within 3-step MacAdam ellipse
—	Wash
350° / 135°	350° / 135°
Mains Local DALI	Local DALI
E	—
Ø50mm	—
Dichroic UV glass Cross prismatic Frosted Industrex Skytex linear Obscure Sandblasted Solite soft Colored glass Anti-glare honeycomb	—
BeamShaper attachment Barndoor Snoot - available in black, white or black interior/white exterior	Barndoor
Universal 3-circuit track adapter Global or Eutrac Ceiling mount rose Flexible mains cable with C-clamp	Universal 3-circuit track adapter Global or Eutrac Ceiling mount rose Flexible mains cable with C-clamp
220-240V	220-240V
50/60Hz	50/60Hz
0.20A @ 240V	0.35A @ 240V
20-50W	17W
50,000hrs (L70)	50,000hrs (L70)
Max. TA =25°C	Max. TA =25°C
IP20	IP20
White (PANTONE® 11-4800 - Blanc de Blanc) Matt Charcoal Black	White (PANTONE® 11-4800 - Blanc de Blanc) Matt Charcoal Black
130 x 172 x 124mm	155 x 155 x 45mm
1.10kg	1.20kg
3 years	3 years



Secrets Exhibition, Auckland Museum

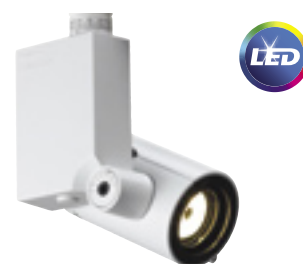
Lighting designer: Francois Roupinian

Photography: Krzysztof Pfeiffer, Auckland Museum

# Spotlights: Accent LED BeamSpot

The Philips Selecon Accent LED BeamSpot is a specialist lighting tool for display and commercial lighting applications. Utilising high quality fixed white LED sources, the luminaire provides excellent light control and features.

With several accessories available, and a choice of beam angles and color temperatures, the Accent BeamSpot delivers on the Philips Selecon brand promise for performance (efficient optical system), precision (accurate beam shaping, locking focus adjustments), and simplicity (intuitive operation).



## Product specification

Light source	Lamp cap	Color temp	Wattage	Beam	Dimming	Housing	Track mount	Overall dimensions D x H x W	Weight	Order Code
LED	–	2700K	13W	26°	Local	White	Global	130 x 172 x 124mm	1.1kg	ACNTLED22LDG01
LED	–	2700K	13W	34°	Local	White	Global	130 x 172 x 124mm	1.1kg	ACNTLED23LDG01
LED	–	2700K	13W	42°	Local	White	Global	130 x 172 x 124mm	1.1kg	ACNTLED24LDG01
LED	–	2700K	13W	26°	Local	White	Eutrac	130 x 172 x 124mm	1.1kg	ACNTLED22LDT01
LED	–	2700K	13W	34°	Local	White	Eutrac	130 x 172 x 124mm	1.1kg	ACNTLED23LDT01
LED	–	2700K	13W	42°	Local	White	Eutrac	130 x 172 x 124mm	1.1kg	ACNTLED24LDT01

## Features

- Three fixed optical systems: 26°, 34°, and 42°.
- High CRI fixed white delivers excellent color rendering.
- Hinged opening body for easy cleaning and tool free accessory mounting.
- Superior glare control and no light spill.
- Multiple accessory slots with safety retention system.
- Engineered from aluminium pressure die castings and injected moulded engineering plastic.
- Positive pan and tilt adjustment, with Allen key lock off.
- Reference scales for pan/tilt adjustments.
- Multiple/integrated accessory and filter mounting slots, to carry Ø50mm color filter, one of which can be up to 4mm thick.
- Three year limited warranty.

## Options available on request:

<b>Finishes</b>	Black
<b>Accessories</b>	Barndoor Snoot
<b>Diffuser glass</b>	Cross prismatic Frosted Industrex Skytex linear Obscure Sandblasted Solite soft
<b>Diffuser glass</b>	Dichroic UV
<b>Mounting</b>	Universal 3-circuit track adapter. Ceiling mount plate, ridged Ø80mm x 20mm deep. 1m cable tail from top of yoke mount spindle. Half coupler for 48/51mm OD pipe.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Spotlights: Accent LED BeamShaper

The Philips Selecon Accent LED BeamShaper delivers accurate shaping of the beam and precise pattern / logo projection.

A sophisticated lighting instrument of timeless appearance, with Allen key lock-offs and reference scales for all adjustments offers the means to effectively assure the integrity of the original lighting design.



## Product specification

Light source	Lamp cap	Color temp	Wattage	Beam	Dimming	Housing	Track mount	Overall dimensions D x H x W	Weight	Order Code
LED	–	2700K	13W	24-39°	Local	White	Global	322 x 172 x 159mm	1.9kg	ACNTLED2BSLDG01
LED	–	3000K	13W	24-39°	Local	White	Global	322 x 172 x 159mm	1.9kg	ACNTLED3BSLDG01
LED	–	4000K	13W	24-39°	Local	White	Global	322 x 172 x 159mm	1.9kg	ACNTLED4BSLDG01
LED	–	2700K	13W	24-39°	Local	White	Eutrac	322 x 172 x 159mm	1.9kg	ACNTLED2BSLDT01
LED	–	3000K	13W	24-39°	Local	White	Eutrac	322 x 172 x 159mm	1.9kg	ACNTLED3BSLDT01
LED	–	4000K	13W	24-39°	Local	White	Eutrac	322 x 172 x 159mm	1.9kg	ACNTLED4BSLDT01

## Features

- High quality zoom optical system (24°-39°).
- High CRI fixed white delivers excellent color rendering.
- Improved beam control and zoom adjustment.
- Reference scales for pan/tilt and zoom adjustments.
- Improved gobo installation and projection.
- Easy mount E size pattern holder included with every luminaire.
- Superior glare control and no light spill.
- Four captive shaping shutters with integrated shutter lock system.
- Hinged opening body for easy cleaning of lenses.
- Multiple/integrated accessory and filter mounting slots, to carry Ø50mm color filter, one of which can be up to 4mm thick.
- Engineered from precision aluminium pressure die-castings and injection moulded engineering plastic.
- Three year limited warranty.

## Options available on request:

<b>Finishes</b>	Black
<b>Dimming</b>	DALI
<b>Mounting</b>	Universal 3-circuit track adapter Ceiling mount plate, ridged Ø80mm x 20mm deep. 1.0m cable tail from top of yoke mount spindle. Half coupler for 48/51mm OD pipe.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)



# Spotlights: SDP

The Philips Selecon Display LED Profile (SDP) delivers accurate shaping of the beam and precise pattern / logo projection.

A sophisticated lighting instrument of timeless appearance. The SDP delivers on the Selecon brand promise for performance (efficient optical system; high quality pattern projections); precision (accurate beam shaping; locking focus adjustments) and simplicity (intuitive operation).

Allen key lock-offs and reference scales for all adjustments offers the means to effectively assure the integrity of the original lighting design.



## Product specification

Light source	Lamp cap	Color temp	Wattage	Beam	Dimming	Housing	Track mount	Overall dimensions D x H x W	Weight	Order Code
LED	–	2700K	41W	16-35°	Local	White	Global	325 x 230 x 151mm	2.94kg	SDPLED2MLDG01
LED	–	2700K	41W	30-50°	Local	White	Global	325 x 230 x 151mm	2.94kg	SDPLED2WLDG01
LED	–	2700K	41W	16-35°	Local	White	EuTrac	325 x 230 x 151mm	2.94kg	SDPLED2MLDT01
LED	–	2700K	41W	30-50°	Local	White	EuTrac	325 x 230 x 151mm	2.94kg	SDPLED2WLDT01

## Features

- High light output for a LED luminaire of this size.
- Condenser optics provide a very flat beam distribution ideal for pattern projection and precise illumination.
- Engineered from precision aluminium pressure die-castings.
- Two zoom optical systems: 16°-35° and 30°-50°.
- All adjustable parameters are lockable using Allen key tool, including:
  - pan and tilt
  - rotatable lens tube +/- 45°
  - zoom lens adjustments
- Reference scales for all adjustments.
- Internal pattern holder with external image alignment.
- Shutters can be locked in position.
- Two front accessory slots for Ø93mm colored and UV glass filters; plastic filter holder.
- User made transparency film gobos can be used.
- Three year limited warranty.

## Options available on request:

<b>Finishes</b>	Black
<b>Color temp</b>	3000K 4000K
<b>Accessories</b>	Color frame for plastic filters. Spare pattern holder - complete two piece assembly. Medium diffusion glass. Allen key hand tool.
<b>Dimming</b>	DALI
<b>Mounting</b>	Ceiling mount plate. Half coupler.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Spotlights: Accent BeamSpot

The Philips Selecon Accent LED BeamSpot delivers on Philips Selecon's brand promise for performance (efficient optical system; high quality pattern projections); precision (accurate beam shaping; locking focus adjustments) and simplicity (intuitive operation).

Allen key lock-offs and reference scales for all adjustments offers the means to effectively assure the integrity of the original lighting design. Available in high quality Architectural White (PANTONE® 11-4800 - Blanc de Blanc) or black epoxy paint finishes.

Addition of the accessory converts the standard Accent BeamSpot to a framing projector.



## Product specification

Light source	Lamp cap	Color temp	Wattage	Beam	Dimming	Housing	Track mount	Overall dimensions D x H x W	Weight	Order Code
–	MR16	–	50W max.	–	Local	White	Universal	130 x 172 x 124mm	1.1kg	ACNTTHLEDLOCDT01
–	MR16	–	50W max.	–	Mains	White	Universal	130 x 172 x 124mm	1.1kg	ACNTTHLEDMAINDT01
–	MR16	–	50W max.	–	DALI	White	Eutrac	130 x 172 x 124mm	1.1kg	ACNTTHLEDDALIEUT01



An accessory complete with 7W LED which converts the standard Accent BeamSpot to a framing projector.

## Accessory

Light source	Lamp cap	Color temp	Wattage	Beam	Dimming	Housing	Track mount	Overall dimensions Ø x W	Weight	Order Code
LED	–	3000K	7W	24–39°	–	White	–	Ø80 x 192mm	0.8kg	ACNTLEDBS01

## Features

- Hinged opening body for easy re-lamping and accessory mounting.
- Superior glare control and no light spill.
- Multiple accessory slots with safety retention system.
- Engineered from aluminium pressure die castings and injected moulded engineering plastic.
- Positive pan and tilt adjustment, with Allen key lock off.
- Reference scales for pan/tilt adjustments.
- Integrated accessory and filter mounting slots, to carry Ø50mm color filter, one of which can be up to 4mm thick, diffuser or honeycomb grill as well as anti-glare snoot, barn-door or BeamShaper lens tube.
- Three year limited warranty.

## Options available on request:

<b>Finishes</b>	Black
<b>Accessories</b>	Barndoor and snoot, available in black, white or black interior/white exterior
<b>Filters</b>	Dichroic colors 50mm (2inch) round or square. Colored glass. Anti-glare honeycomb
<b>Mounting</b>	Universal 3-circuit track adapter. Ceiling mount rose. Flexible mains cable. Flexible mains cable with C-clamp.

## Suggested uses:



For more information visit [philips.com/selecon](http://philips.com/selecon)

# Wallwashers: Fresco LED Wall Washer

The Philips Selecon Fresco LED Wall Washer is a specialist lighting tool for display and commercial lighting applications.

Providing an even wash of light, the Fresco LED Wall Washer is the ideal wall washer or subject flood.



## Product specification

Light source	Lamp cap	Color temp	Wattage	Beam	Dimming	Housing	Track mount	Overall dimensions D x H x W	Weight	Order Code
LED	–	3000K	19W	Wash	Local	White	Eutrac	155 x 155 x 45mm	1.2kg	FRSLED2LDT01

## Features

- The body is engineered from a combination of aluminium pressure die-castings.
- All power cables are internal to mount and body.
- Visually smooth asymmetric beam. Fully blended light source – no fringing.
- LED engine and precision designed reflector are recessed into the luminaire housing for best glare control commensurate with the beam angles provided.
- Minimal power consumption (13W) and lower maintenance requirement than traditional halogen sources.
- Passively cooled – no fans for silent operation.
- Positive, precise pan and tilt adjustment with Allen lock off. Reference scales to record / duplicate focus position.
- Four flap barndoors to shape / mask the light beam, available to match luminaire color or with the flap interior finished in black.
- Three year limited warranty.

## Options available on request:

<b>Finishes</b>	Black
<b>Accessories</b>	Barndoor
<b>Dimming</b>	DALI
<b>Mounting</b>	Universal track 3-circuit track adapter. Ceiling plate, ridged Ø80 x 20mm 1m cable tail. 50mm half coupler and 1m cable tail.

## Suggested uses:



For more information visit [philips.com/selection](http://philips.com/selection)



National Military Museum, The Netherlands

Lighting designer: Pelle Herfst

Photography: Rapenburg Plaza/Jeffrey Steenberg

EMEA lighting and controls catalogue 2017

# Controls, distribution & power

Our controls encompass everything from sophisticated networks, that share and distribute data providing integrated solutions, through to sophisticated mixing of colors, positioning and focusing of luminaires in simple and efficient ways to simple basic everyday controllers.

Reliable and easy-to-use, these control systems provide solutions that will meet the creative needs of facilities of any size.

Intuitive operation, simplified set-up.

Denison High School, Smith Auditorium

Lighting designer: Mark Batts, Batts BVL

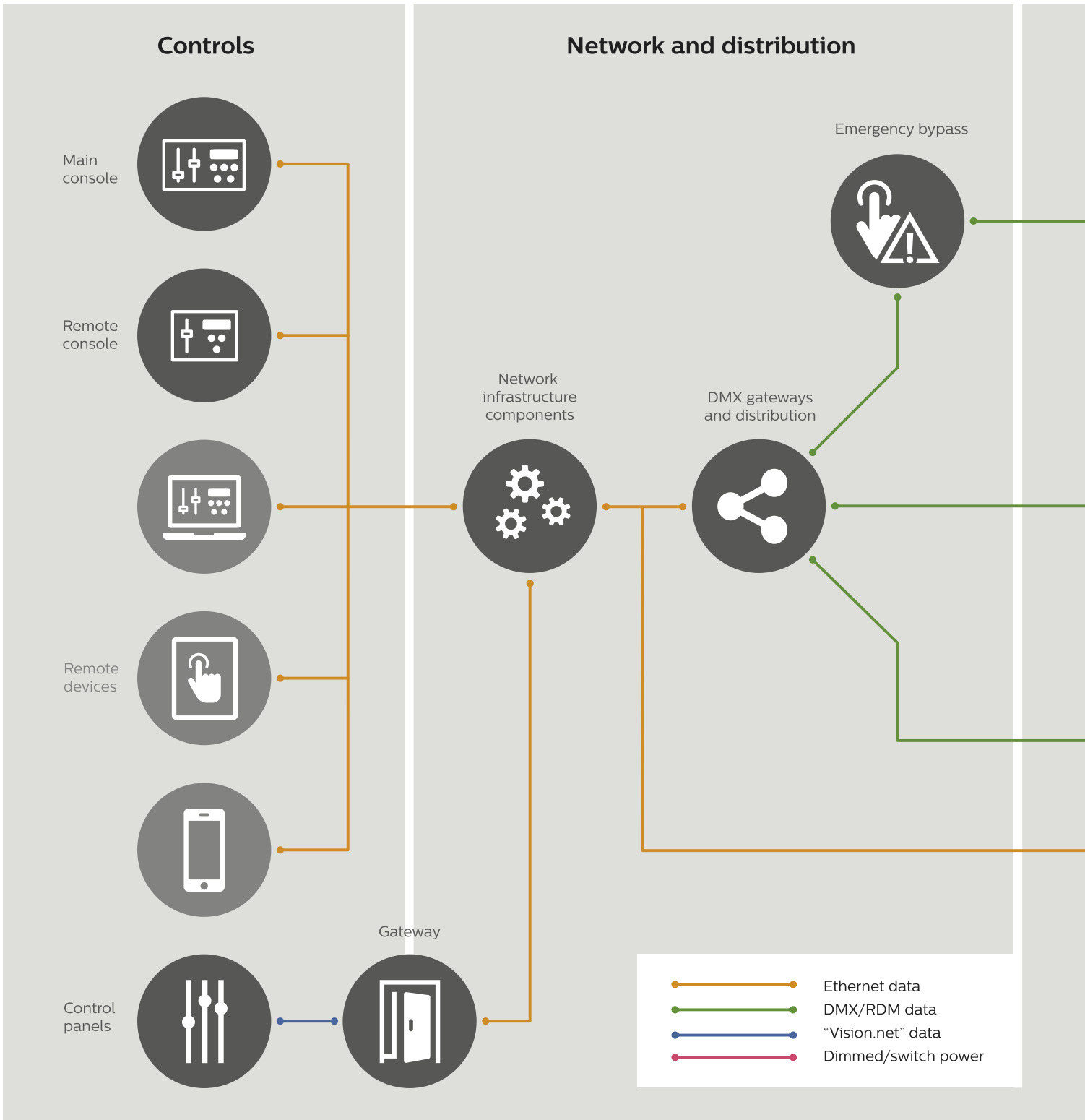
Photography: Bryan Matthews



# Networking Solutions

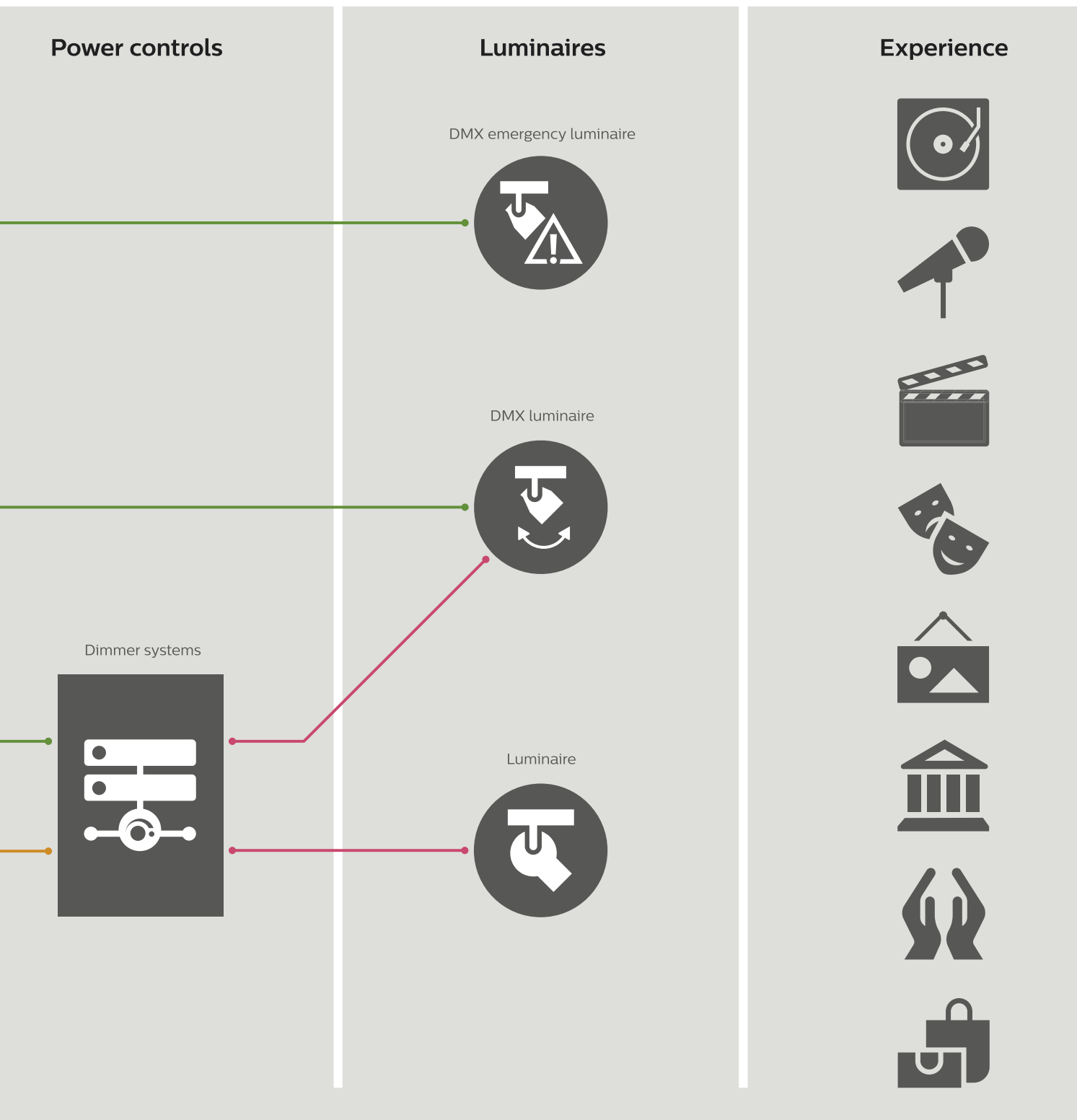
Philips Strand Lighting introduced the use of ethernet systems for the distribution of lighting data with the ShowNet suite of networking protocols in 1994.

Thanks to this pioneering work, the use of networking for the transmission of lighting levels between control consoles and dimmers is now standard practice within the entertainment lighting industry. Strand's widespread experience of networking has led it to be the natural choice for keynote events such as the ground-breaking Sydney Olympics opening ceremony.



Today, the use of networking within the Philips Entertainment product range has expanded significantly with systems supporting a variety of protocols, including ShowNet, E1.31 Streaming ACN, DMX, Pathport and Art-Net™.

These solutions help minimise capital costs and increase inter-operability and are further enhanced with support for protocols that control Philips Color Kinetics data enablers, allowing Philips Entertainment Lighting consoles to communicate with what is probably the widest variety of devices and dimmers in the market.





# Controls

## NEO system

	NEO Control Console	NEO Submaster Wing
		
Submaster faders	10	20
Playback faders	5	–
Theater playback	1	–
Time fader	1	–
Cue list	Unlimited	–
DMX ports	4	–
RDM	Supported	–
Midi	In / out	–
SMPTE	In / out	–
Ethernet	2x gigabit	–
USB ports	9	2x USB 2.0 output (type A); 1x USB 2.0 input (type B)
Internal monitor	–	–
External monitor	3	–
Ethernet protocols	Art-Net™ / ShowNet / sACN / CK Net Vision.net / Telnet	–
File shares	Windows networking	–
Operating system	Windows 7	–
Form factor	Single tier desktop design	–
External triggers	Midi / DMX in / SMPTE / Line input MySQL / Vision.net / Volt-free contacts	–
Internal display screens	4x color screens	5x color screens
PDA support	iOS / Android	–
Encoders	4x indented encoders	–
Level wheel	Indented level wheel	–
Media playback formats	MPEG-1 layer I and layer II AAC and Dolby digital audio MPEG-1 and MPEG-2 video	–
Protocols / connectivity	ShowNet / E1.31 (Streaming ACN) / Art-Net™ DMX512 / KiNet / Pathway / RDM	–
Connections / ports	4x DMX out via 5-pin DMX 1x DMX in via 5-pin DMX 1x MIDI in / out 1x SMPTE In / out 1x VESA display port 1x HDMI port 1x DVI port 2x Network ports – RJ45 1x Audio line in / out / mic in – via 1/8" mini 2x COM ports 2x USB 3.0 (on rear panel) 7x USB 2.0 (2x rear panel, 4x console front, 1x Keyboard drawer) 2x 3-pin XLR ports (12V) for console lights (2x console lights are included with each console purchased)	1x Accessory power input 1x Accessory power output 1x USB 2.0 input connector (Type B) 2x USB 2.0 output connector (Type A) 1x 3-pin XLR port (12 Volt) for console light (console light sold separately)
Supply voltage	100–240VAC	12VDC, 14A (from console connection)
Operating temperature / humidity	0–40° ambient / 0–95% non-condensing	0–40° ambient / 0–95% non-condensing
Storage temperature	0–35°	0–35°
Finish	Black	Black
Construction	High density and impact resistant aluminium and plastics	High density and impact resistant aluminium and plastics
Dimensions H x W x L	788 x 143 x 496mm	394 x 138 x 388mm
Weight	16.8kg	5.6kg
Warranty	2 years	2 years



NEO Playback Wing	NEO Playback Controller
	
10	Virtual
5	Virtual
–	Virtual
–	Unlimited
–	4
–	Supported
–	In / out
–	In / out
–	2x gigabit
2x USB 2.0 output (type A); 1x USB 2.0 input (type B)	6
–	3
–	Art-Net™ / ShowNet / sACN / CK Net Vision.net / Telnet
–	Windows networking
–	Windows 7
–	19in rack mounting design
–	Midi / DMX in / SMPTE / Line input MySQL / Vision.net / Volt-free contacts
5x color screens	
–	
–	iOS Android
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–	MPEG-1 layer I and layer II AAC and Dolby digital audio MPEG-1 and MPEG-2 video
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1x Accessory power input 1x Accessory power output 1x USB 2.0 input connector (Type B) 2x USB 2.0 output connector (Type A) 1x 3-pin XLR port (12 Volt) for console light (console light sold separately)	4x DMX out via 5-pin DMX 1x DMX in via 5-pin DMX 1x MIDI in / out 1x SMPTE In / out 1x VESA display port 1x HDMI port 1x DVI port 2x Network ports – RJ45 1x Audio line in / out / mic in – via 1/8" mini 2x COM ports 2x USB 3.0 (on rear panel) 4x USB 2.0 (2x rear panel, 2x front panel) Kensington Security Lock Slot
12VDC, 14A (from console connection)	120–240VAC, 3.0A 50/60Hz
0–40° ambient / 0–95% non-condensing	0–40° ambient / 0–95% non-condensing
0–35°	0–35°
Black	Black
High density and impact resistant aluminium and plastics	High density and impact resistant aluminium and plastics
394 x 138 x 388mm	483 x 89 x 366mm
5.6kg	4.56kg
2 years	2 years

## Controls: NEO Control Console

The Philips Strand NEO Software provides an expandable control system, catering for the needs and requirements of our most demanding customers. The scalability of the system, allows the user to grow and take advantage of the LED revolution with an intuitive and flexible software base.

The NEO Software also takes pride of place, providing a fully integrated part of a Vision.net system, allowing seamless control of both production and architectural lighting



### Features – NEO Control Console

- Up to 100 universes of DMX.
- Touchscreen capable interface.
- Unlimited cues, cue lists, groups, palettes, effects and macros.
- Tracking, cue only and hybrid tracking programming.
- Flexible shortcut system.
- Generic palettes.
- Time line effects.
- Pixel mapping.
- Media playback.
- Multi-User control user security system (login).
- Tracking backup.
- Timed events with sunrise / sunset.
- Telnet interface.
- Android / iOS remotes.
- Undo history.
- Visual timecode editor.
- Power monitor.
- Color and position paths per cue.
- Blind pre-visualization.
- Magic sheet layout.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Controls: NEO Fader Wings

Adding to our NEO family of products are the NEO fader wings. NEO fader wings can be used to provide additional physical fader playback and submasters, depending on model, to your NEO lighting control console.

The interconnection between each wing and the control console is via a USB connection and can be powered either directly from your NEO console or plugged directly into a common power outlet through an optional power supply.

We think you will find the NEO lighting control console and wings a worthy successor to a proud history of iconic consoles that have had the honor of bearing the Strand Lighting and now Philips Strand Lighting name.

### Features - NEO Console Playback Wing

- 10 motorized submasters with backlit bump buttons.
- 5 motorized multi-function faders with go / stop / back backlit buttons.
- 5 color LCD screens with status displays and fader identification.
- Backlit page up and down buttons for independent paging of submasters and playbacks.
- USB 2.0 port A / B ports or daisy chaining multiple units.
- 2x Wing power in / thru ports.
- Innovative group masters feature.
- Kensington lock slot at back of unit.
- Two year limited warranty.



### Features - NEO Console Submaster Wing

- 20 non-motorized submasters with backlit bump buttons.
- 5 color LCD screens with status displays and fader identification.
- Backlit page up and down buttons for independent paging of submaster banks.
- USB 2.0 port A / B ports or daisy chaining multiple units.
- 2x Wing power in / thru ports.
- Kensington lock slot at back of unit.
- Two year limited warranty.



## Controls: NEO Playback Controller

A 2U high 19 inch rack mounting playback unit, providing either a stand-alone controller for unattended playback or backup for main control console.

Running the NEO Software it provides a perfect partner for the NEO Console in any system as a backup. Combined with Vision.net it provides a highly flexible and dynamic controller for architectural and event lighting installations.

### Features – NEO Playback Controller

- 19 inch rack mount format 2U high.
- Color LCD screen with status display.
- 4 DMX out ports.
- 1 DMX in port.
- 2 Network ports.
- 3 Video outs (HDMI / display port / DVI).
- MIDI out / in.
- SMPTE out / in.
- USB 3.0 and USB 2.0 ports.
- 2 COM ports.
- Audio in / out connections at rear.
- Kensington lock slot at back of unit.
- Two year limited warranty.



# Controls: NEO system

## NEO Control Console

	Overall dimensions W x H x D	Weight	Order Code
NEO Lighting Control Console (One Universe of DMX) Includes: console dust cover, universal voltage power supply, IEC cables (1 each - US, Europe, Asia), console lights (2 each), and QuickStart guide. Monitor not included.	788 x 143 x 496mm	16.8kg	91001

## NEO Console Wings

	Overall dimensions W x H x D	Weight	Order Code
NEO Console Playback Wing Includes: each NEO fader wing includes a wing dust cover, USB cable (1.5m), and QuickStart guide	394 x 138 x 388mm	5.6kg	91005
NEO Console Submaster Wing Includes: each NEO fader wing includes a wing dust cover, USB cable (1.5m), and QuickStart guide	394 x 138 x 388mm	5.6kg	91004

## NEO Playback Controller

	Overall dimensions W x H x D	Weight	Order Code
NEO Console / Playback Controller	483 x 97 x 366mm	4.6kg	91006

## NEO PC software

	Order Code
NEO PC Lighting Control software (Licence for one universe of DMX) Includes: USB authorization key and QuickStart guide	91016
NEO PC USB to DMX cable (for use with NEO PC software to output local DMX)	91013

## NEO – Accessories

	Order Code
Replacement dust cover	91001-DC
NEO software expansion licence for universe of DMX (512 channels) NOTE: Up to 100 can be added to a NEO Control Console, NEO Playback Controller or NEO PC software licence	91002
21 inch touch screen monitor (multi-touch)	91021
Additional / replacement console light	66219
DMX512-A control cable 25ft (A5F to A5M)	95090
Ethernet cable 10ft 10/100BaseT (RJ-45)	96456
Ethernet cable 25ft 10/100BaseT (RJ-45)	96459

# NEO Console

## goes on tour with Classical Ballet Moscow



The Classical Ballet Moscow recently completed an extensive tour of Italy and Sicily featuring a beautifully emotive lighting design programmed on a NEO Lighting Control Console. The company performed *The Nutcracker*, *Swan Lake* and *Sleeping Beauty* in cities including Florence, Milan and Palermo.

Lighting designer and technical director Evgeniy Toma utilized the NEO's intuitive interface and timesaving features to provide him with quick and easy access to all of the fixtures in the rig, which ranged from 60 to 110 over the course of the tour. "I was really impressed by the flexibility of the NEO console," says Toma. "There are different ways to achieve what you want with it, which is ideal for both an experienced lighting designer and a beginner."

With the tour moving to a different venue each day, the NEO's 'Groups', 'Shortcuts' and 'Cue Lists' meant Toma could easily transition from one set-up to the next. "'Groups' is a very convenient section where I could easily set submaster and effects options, while Shortcuts made accessing different functions much more efficient," says Toma. "As I had to edit the previous show's cues for each theater, I could do it in a few minutes using the 'Cue List' pallets."

Toma could also rest assured the console would be up and running without issue each night. Shows are secured on its "Mission Critical" grade SQL server, ensuring no data loss. In addition, boot time is massively reduced with high-speed solid-state disk drives, making the NEO robust for everyday and touring use.

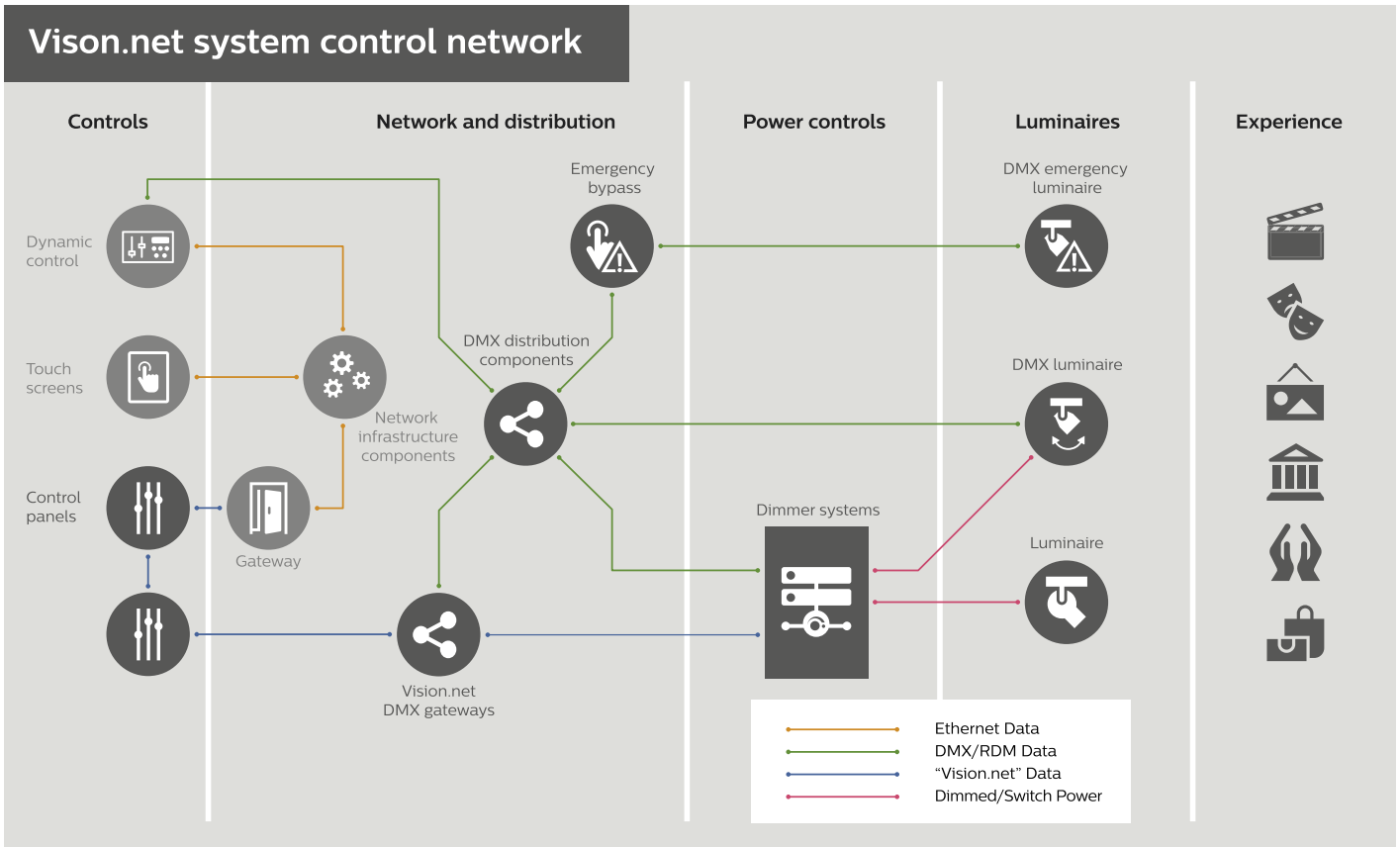
"I first saw the NEO at PLASA London and was intrigued by its functionality," says Toma. "The more I learn about the console the more I am impressed by it."



# Controls: Vision.net 4.5

Vision.net 4.5 is a fully integrated lighting management system designed to meet the most demanding lighting environments. Scalable from a single room to large multi-building campuses, our decentralized control approach delivers unparalleled flexibility and maximum reliability.

Designed to integrate with all Philips Entertainment lighting dimming systems, low voltage switching cabinets, Vari-Lite automated luminaires, Selecon LED fixtures and Showline LED fixtures, Vision.net 4.5 can control any lighting load with intuitive precision.



## Features

- Next generation scalable architectural control from a single room to a multi-building campus.
- Scales from a single space up to 255 rooms in a single system. Large systems can be built by linking up to 1000 areas with up to 255 rooms each.
- Distributed intelligence - no central processor required.
- Available with push button, slider and touchscreen panels.
- Simple computer-based set up and configuration with Vision.net 4.5 designer software.
- Fully scalable to over 1,000 stations.
- Intuitive automated luminaire and LED fixture interface.
- Customizable fixture library to create your own fixtures.
- Occupancy sensors and photocells available.
- Designers can easily create rooms, room combinations and easily define stations and buttons.
- Vision.net 4.5 designer provides a simple graphical set up and configuration system for original set up and updates as the needs of a facility changes.
- Low-cost Cat 5e wiring.
- Touchscreen systems provide connectivity to PaletteOS consoles and dimmer racks for system access and monitoring.
- Smart jacks allow portable stations to be customized for each room. One portable can be used in multiple spaces each with a unique configuration.
- 127 channels per room.
- Unlimited dimmers per room with patching and DMX512 snapshot support.
- Astronomical time-clock and calendar-based event.
- Connects to C21, EC21, A21, R21 and contact systems.
- Vision.net 4.5 to DMX512 module available for DMX512 controlled devices
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Controls: Vision.net 4.5 Touchscreens

Touchscreens, configured using the Vision.net designer software, provide a graphical user interface to a Vision.net system.

### Features – Touchscreens

- Communicates with Vision.net over both IP networks and also local RS485 networks using the Vision.net protocol.
- Rapid configuration using drag and drop techniques, making system design and deployment exceptionally fast.
- Powered either by the Vision.net RS485 network or local 24VDC input connector.
- Two year limited warranty.



## Controls: Vision.net 4.5 DMX Interface

The Vision.net DMX Interface is a small dedicated DMX processor interface card that allows the Vision.net system to communicate with any third party DMX512-A compatible product.

### Features – DMX Interface

- Bridges Vision.net controls to the DMX512-A protocols.
- Multiple Vision.net inputs (2).
- DMX512 input (1).
- DMX512 output (1).
- Addressable via rotary switch.
- Level snapshots into recordable pre-sets.
- Configured utilizing Vision.net designer software.
- Powered either by the Vision.net RS485 network or local 24VDC input connector.
- Scalable device allowing additional cards to be added to a system as required.
- Two year limited warranty.



## Controls: Vision.net 4.5 AV Interface

A small push button processor, interfacing external volt free signals into a Vision.net system for controlling lighting scenes.

### Features – AV Interface

- Up to 8 volt-free contacts inputs with corresponding LED mimic drives.
- May be expanded to drive low voltage relays.
- Serial data connection for photocell connections and other daylight light saving devices.
- Powered from the Vision.net RS485 network.
- Two year limited warranty.



## Controls: Vision.net 4.5 Control Stations

A wide selection of standard and custom-configurable control button or slider stations, that may be either flush or surface mounted.

### Features – Push Button Controls

- Up to 8 illuminated push buttons with corresponding LED mimic drives.
- Serial data connection for photocell connections and other daylight light saving devices.
- Powered from the Vision.net RS485 network.
- Two year limited warranty.



# Controls: Vision.net 4.5

## Touchscreen stations

	Type	Finish	Overall dimensions W x H x D	Order Code
Vision.net 4.5 7-inch color VGA touchscreen station*		Light almond	252 x 76 x 196mm	95242A
Vision.net 4.5 7-inch color VGA touchscreen station*		Black	252 x 76 x 196mm	95242B
Vision.net 4.5 7-inch color VGA touchscreen station Portable in hammond case Includes: Vision.net touch screen portable cable, 25ft (8m), (6m-6F XLR)				95242P
Vision.net 4.5 7-inch color VGA touchscreen station	Flush, locking enclosure	Black		95242SE
Vision.net 4.5 7-inch color VGA touchscreen station	Rack mount	Black		95242RM
Vision.net 4.5 7-inch color VGA touchscreen station	Rack mount			95246RM
Vision.net 4.5 15-inch color VGA touchscreen	Rack mount, locking enclosure			95246SE

\*Requires back box to be ordered in addition.

## \*Back boxes for touchscreen stations

	Finish	Overall dimensions W x H x D	Order Code
Vision.net 4.5 7-inch flush mount back box kit for 95242A or 95242B		243 x 76 x 179mm	95243
Vision.net 4.5 7-inch surface mount back box kit for 95242A	Light almond	243 x 76 x 195mm	95244A
Vision.net 4.5 7-inch surface mount back box kit for 95242B	Black		95244

## Slider stations

	Finish	Back box size	Order Code
Vision.net 4.5 slider station with IR, 3 channel and master, 6 pre-sets	White	2-gang	63303
Vision.net 4.5 slider station with IR, 6 channel and master, 6 pre-sets	White	3-gang	63306
Vision.net 4.5 slider station with IR, 9 channel and master, 6 pre-sets	White	4-gang	63309
Vision.net 4.5 slider station, 12 channel and master, 7 pre-sets	White	5-gang	63312
Vision.net 4.5 slider station, 15 channel and master, 7 pre-sets	White	5-gang	63315

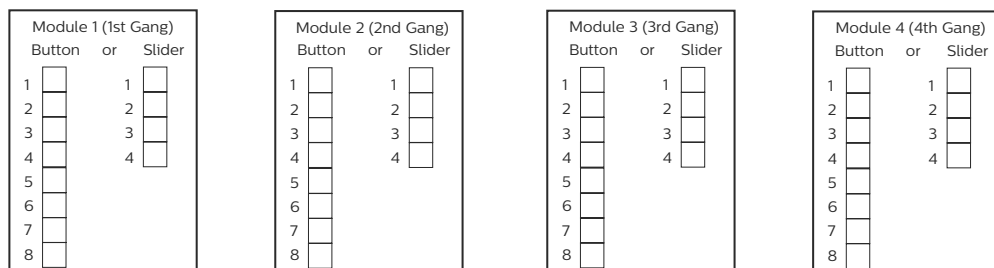
## Push button stations

	Finish	Back box size	Order Code
Vision.net 4.5 push button station, 1 button	White	1-gang	63321
Vision.net 4.5 push button station, 2 button	White	1-gang	63322
Vision.net 4.5 push button station with IR, 4 button	White	1-gang	63324
Vision.net 4.5 push button station with IR, 18 button	White	1-gang	63328

## Receptacle stations

	Finish	Back box size	Order Code
Vision.net 4.5 smart jack receptacle	Stainless steel	1-gang	63341
Vision.net 4.5 RS232 programing station	Stainless steel	1-gang	63035USB

Vision.net 4.5 stations may be custom configured for your facility by indicating the number of buttons or sliders that are required in each gang position.





# Controls: Vision.net 4.5

## Back boxes for sliders, button and receptacle stations

	Order Code
1-gang masonry back box (A) RACO 695, BWRS 1MB	66801
Arch, back box, 2-gang (B)	66802
Arch, back box, 3-gang (C)	66803
Arch, back box, 4-gang (D)	66804
Arch, back box, 5-gang (E)	66805
Arch, back box, 6-gang (F) RACO 965	66806

## Custom stations – additional options

	Order Code	Add suffix
Custom Vision.net 4.5 station (please also specify options)	63398	
To make any station portable. Includes: Vision.net portable cable, 25ft (8m), (4M-4F XLR)		PM
Integrated infrared receiver		IR
Finish color		-White
		-Ivory
		-Brown
		-Black
		-Gray

## Input / output devices

	Order Code
AV input / occupancy sensor interface	63065SE
Vision.net 4.5 to DMX512-A interface in enclosure	63054-2
Vision.net 4.5 4-way data cable splitter for panel mounting	63055RM
Vision.net 4.5 4-way data cable splitter with enclosure	63055SE

## System extension cables

Portable station cables	Order Code
Vision.net 4.5 portable extension cable, 10ft (3m), (A4M-A4F)	95095
Vision.net 4.5 portable extension cable, 25ft (8m), (A4M-A4F)	95096
Vision.net 4.5 portable extension cable, 50ft (16m), (A4M-A4F)	95096
Smart jack cables	
Vision.net 4.5 smart jack cable, 10ft (3m), (4M-4F XLR)	66093/10
Vision.net 4.5 smart jack cable, 25ft (8m), (4M-4F XLR)	66093/25
Vision.net 4.5 smart jack cable, 50ft (16m), (4M-4F XLR)	66093/50
Vision.net 4.5 smart jack cable, 100ft (32m), (4M-4F XLR)	66093/100
Touchscreen cables	
Vision.net 4.5 touchscreen portable cable, 25ft (8m), (6M-6F XLR)	66099
Vision.net 4.5 touchscreen portable cable, 50ft (16m), (6M-6F XLR)	66099/50

## Accessories – Configuration software

	Order Code
Windows configuration software on CD-ROM	67518

# Stand alone lighting control consoles

	500ML	250ML
		
Connectivity	<p>1x Ethernet (RJ45) port (Art-Net™ / ShowNet)                  2x USB 2.0 port (front, library storage - USB key sold separately)                  1x USB 2.0 port (rear, touchscreen connection - touch screen not included)                  1x DVI (HD) monitor output (monitor not included)                  4x DMX512-A out (XLR5F) ports                  3x MIDI (1 each - in / out / thru) ports</p>	<p>1x Ethernet (RJ45) port                  1x USB port (front, library storage - USB key sold separately)                  1x USB port (rear, desk light connection only)                  1x VGA (1024 x 768) monitor output (monitor not included)                  1x DMX512-A in (XLR5M) port                  2x DMX512-A out (XLR5F) ports                  2x MIDI in / thru ports</p>
DMX512-A control and channels	<p>2,048 DMX channels, 4 universes                  500 fixtures                  500 groups                  500 pre-sets                  500 cue lists (each with up to 500 cues in total)</p>	<p>1,024 DMX channels, 2 universes                  1 DMX512-A in port                  250 intensity channels                  30 attributed fixtures (up to 40 attributes)                  24 submasters (24 pages)                  999 cues</p>
Supply voltage	Universal power supply 100-240VAC	Universal power supply 100-240VAC
Construction	Rigid folded sheet steel and flame retardant ABS controls	Rigid folded sheet steel and flame retardant ABS controls
Operating temperature	0-40°C ambient	0-40°C ambient
Humidity	0-95% non-condensing	0-95% non-condensing
Storage temperature	0-35°C	0-35°C
Weight	20.5kg	8.8kg
Dimensions L x W x H	657 x 489 x 308mm	734 x 324 x 81mm
Warranty	2 years	2 years

200 plus series	100 plus series	Sixer
		
<p>1x Ethernet (RJ45) port, Art-Net™ compatible            1x USB port (library storage - USB key sold separately)            1x VGA monitor outputs (monitors not included)            1x DMX512-A in (XLR5M) port            2x DMX512-A out (XLR5F) ports</p>	<p>1x DMX512-A out (XLR5F) port</p>	<p>5-pin, DMX512-A out</p>
<p>6 available operation modes: single scene, two scene, submaster, moving light, LED and FX playback.            12 pages of submasters.            Each submaster page has 24 submasters.            288 total submasters over 24 pages.            12 FX stacks.            Each FX stack can have 48 steps.            FX stacks can be previewed on system faders.            Total of 576 recordable steps.            Supports 12 moving lights and 12 LED lighting fixtures.</p>	<p>99 memories.            12 channel 2 scene pre-set, 24 channel single scene pre-set operation with unique hold function in single scene mode.            Built-in effect playback.</p>	<p>DC operation by external power adaptor.            Possible power by 9V battery.            6 channels manual fader with master.            DMX-512(1990) output.</p>
<p>Universal power supply 90-240VAC</p>	<p>Universal power supply 90-240VAC</p>	<p>9VDC (either AC to DC supply - provided with unit or 9V battery - not provided)</p>
<p>Rigid folded sheet steel and flame retardant ABS controls</p>	<p>Rigid folded sheet steel and flame retardant ABS controls</p>	<p>Rigid folded sheet steel.            Powder-coat epoxy paint black finish</p>
<p>0-40°C ambient</p>	<p>0-40°C ambient</p>	<p>0-35°C ambient</p>
<p>0-95% non-condensing</p>	<p>0-95% non-condensing</p>	<p>0-95% non-condensing</p>
<p>0-35°C</p>	<p>0-35°C</p>	<p>0-35°C</p>
<p>6.8kg 200 plus 12/24            9.5kg 200 plus 24/48</p>	<p>2.0kg</p>	<p>1.0kg</p>
<p>568 x 318 x 79mm 200 plus 12/24            804 x 319 x 79mm 200 plus 24/48</p>	<p>566 x 365 x 83mm</p>	<p>148 x 166 x 42mm</p>
<p>2 years</p>	<p>2 years</p>	<p>2 years</p>

# Controls: 500ML

The Philips Strand 500ML lighting control console is designed to operate dimmers, LED fixtures and moving lights.

An 8-inch TFT color touchscreen allows for fast set up. Backlit command buttons aid in the ease of use. If required, the unit has one external DVI port to add a touch monitor to give even more control.

24 faders, each may be used as a master, submaster or playback. Equipped with backlit play, pause / reverse and bump buttons allowing cue stacks to be triggered as required for busking 'moments'.

Using industry standard methods of control, the user interface is quick to understand, allowing the operation to appeal both to the casual and professional operator alike.

The console's robust construction provides a smart way to create and playback great lighting for events.



## Product specification

	Overall dimensions L x W H	Weight	Order Code
500ML Lighting Control Console Includes: Console includes console dust cover, AC power input cables, USB key drive, LED desk lamp, and QuickStart guide. External monitor not included.	657 x 489 x 308 mm	20.5 kg	65354

## Accessories

	Order Code
DMX512 control cable 25ft (A5F to A5M)	95090
Ethernet cable 10ft 10/100BaseT (RJ45)	96456
Ethernet cable 25ft 10/100BaseT (RJ45)	96459
USB key drive	67528
21-Inch touchscreen monitor	91021

## Features

- 8-inch (800 x 600 pixels) TFT color touch screen.
- 2 DMX out ports.
- 119 backlit keys / 4 rotary encoders / 24 faders / 1 level wheel.
- LCD fader bank information screens.
- Supports up to 500 cue lists of 500 cues.
- 24 faders can be either submasters, playbacks or effects.
- DMX512-A.
- MIDI in / out / thru.
- RJ45 network port (Art-Net™).
- DVI external monitor output.
- 3 USB ports (2 front, 1 rear).
- Supports 3-pin XLR desk lamps.
- Programing / status displays.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Controls: 250ML

The Philips Strand 250ML lighting control console is the perfect desk to introduce you to the world of intelligent fixture control. Built for entry level operation and small to medium sized theaters, the 250ML gives you a simple interface, great features and an even better price.

It merges the world of conventional dimmer / channel control using traditional command line operation with an easy-to-use interface for attributed fixtures using a color LCD screen that has soft keys and attribute encoders.

The 250ML console can control 250 channels for dimmers and 30 automated luminaires for moving lights and LEDs. Your looks can be stored as either submasters for easy access or cues for traditional theater playback.

With the 250ML console's extensive and editable fixture library, you'll never be without the tools you need to control your lighting rig.



## Product specification

	Overall dimensions L x W H	Weight	Order Code
500ML Lighting Control Console	657 x 489 x 308mm	20.5kg	65354

Included with console: dust cover, AC power input cables, USB key drive, LED desk lamp, and QuickStart guide. External monitor not included.

## Accessories

	Order Code
DMX512 control cable 25ft (A5F to A5M)	95090
Ethernet cable 10ft 10/100BaseT (RJ45)	96456
Ethernet cable 25ft 10/100BaseT (RJ45)	96459
USB key drive	67528

## Features

- 250 intensity channels.
- 30 automated luminaires.
- 2 DMX ports with 1,024 outputs.
- 1 DMX in port.
- Integrated moving light control with LCD screen, 10 softkeys and 4 encoders.
- 24 submasters with 24 pages.
- 999 cues.
- Faders can be either submasters, playbacks, or effects.
- Cue playback with A / B faders and load / GO buttons.
- DMX512-A.
- MIDI in / thru.
- VGA output.
- Intuitive effects engine.
- Traditional command line entry.
- Multi-color bump buttons.
- Front panel USB port for showfile storage.
- Rear USB port for desk lamp.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Controls: 200 plus series

Philips Strand 200 plus series consoles offer you a choice of 24 or 48 submasters plus conventional pre-set operation. Choose either submaster, two scene or expanded single scene operation on the fly to meet the needs of your production.

We did not forget the latest generation of LED luminaires either with a full suite of controls for multi-color LED luminaires. The console will also run up to 24 moving lights allowing you complete control of both conventional dimmers and a host of sophisticated next generation luminaires.

The 200 plus console also features 12 Effects playbacks with each effect having up to 48 steps. Effects are easy to access, record and change dynamically. All show information can be saved to a USB memory device to give you a secure back up of your show.

The 200 plus console has a DMX512-A capture function allowing you to capture up to 512 channels of DMX512-A from a larger console and play them back. There are 12 memories available.

Simple to use and set-up with a wide range of features, the 200 plus series consoles are an ideal choice for facilities that need a compact and effective lighting controller.



### Product specification

	Overall dimensions L x W H	Weight	Order Code
200 plus series 12/24 console	568 x 318 x 79mm	6.8kg	64331
200 plus series 24/48 console	804 x 319 x 79mm	9.5kg	64341

Included with console: dust cover, integrated video (VDU) card, universal voltage power supply, and printed installation guide. Monitors not included.

### Accessories

	Order Code
DMX512 control cable 25ft (A5F to A5M)	95090
Ethernet cable 10ft 10/100BaseT (RJ-45)	96456
Ethernet cable 25ft 10/100BaseT (RJ-45)	96459
Spare dust cover (200 plus series 12/24)	64335
Spare dust cover (200 plus series 24/48)	64345
USB key drive	67528
20-inch flat panel monitor	95220

### Features – 200 plus 12/24 console

- Six available operation modes: single scene, two scene, submaster, moving light, LED and FX playback.
- 12 pages of submasters.
- Each submaster page has 24 submasters.
- 288 total submasters over 24 pages.
- 12 FX stacks.
- Each FX stack can have 48 steps.
- FX stacks can be previewed on system faders.
- Total of 576 recordable steps.
- Supports 12 moving lights and 12 LED lighting fixtures.
- Show files, console contents can be saved on a USB drive.
- Two trigger buttons for external DMX512-A devices.
- You can record a full 512 channels into the DMX512-A base memory.
- 512 total DMX512-A outputs.
- DMX512-A input recorder with 12 memories.
- Integrated video display port.
- Two year limited warranty.

### Features – 200 plus 24/48 console

- Six available operation modes: single scene, two scene, submaster, moving light, LED and FX playback.
- 24 pages of submasters.
- Each submaster page has 48 submasters.
- 1152 total submasters over 48 pages.
- 12 FX stacks.
- Each FX stack can have 96 steps.
- FX stacks can be previewed on system faders.
- Total of 1152 recordable steps.
- Supports 24 moving lights and 24 LED lighting fixtures.
- Show files, console contents can be saved on a USB drive.
- Two trigger buttons for external DMX512-A devices.
- You can record a full 512 channels into the DMX512-A base memory.
- 512 total DMX512 outputs.
- DMX512-A input recorder with 12 memories.
- Integrated video display port.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Controls: 100 plus series

The Philips Strand 100 plus series console is a small, simple to use, pre-set lighting control desk that also has a theatrical cue stack of 99 memories. It can be operated in 24 channel single scene mode or 12 channel two scene mode. In single scene mode multiple scenes can be set with the Hold feature. The console also has the ability to run a single effect.



### Product specification

	Overall dimensions L x W H	Weight	Order Code
100 plus series 12/24 console	566 x 365 x 83mm	2.0kg	61318

Included with console: dust cover, universal voltage power supply, and printed installation guide.

### Accessories

	Order Code
DMX512 control cable 25ft (A5F to A5M)	95090
Spare dust cover (100 plus series 12/24)	61315

### Features

- Fully digital control console.
- 99 memories.
- 12 channel 2 scene pre-set, 24 channel single scene pre-set operation with unique hold function in single scene mode.
- Built in effect playback.
- Designed for portable or rack mounting applications with removable end caps to facilitate rack mounting.
- Split crossfader with time fade function.
- Bump buttons.
- Grandmaster and black out key.
- DMX512-A output.
- Supplied with 90-240 Volt CE, UL, cUL universal power supply.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Controls: Six Control Desk

The Philips Strand Sixer portable DMX512 controller is a small, simple to use, single-preset lighting desk.

The Sixer portable DMX512 control desk offers control of six DMX512 lighting channels through its six channel faders and grandmaster.



### Product specification

	Overall dimensions H x W x D	Weight	Order Code
Sixer six channel portable DMX512-A Control Desk for 230/240 VAC operation	148 x 166 x 42mm	1.0kg	75801

Note: All Sixer Control Desks include AC to DC power supply and operations manual.

### Features

- Compact size, easy to use.
- Six individual channel faders and one grandmaster.
- Standard 5-pin DMX512 output connector.
- Operates with supplied AC to 9-volt DC adapter or 9-volt battery.
- Supplied power supply is CE marked and UL listed.
- Available in 120 VAC and 230/240VAC markets.
- On-board on / off switch to save battery life when not in use.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)



# Controls: Accent DMX Pre-set Control Stations

Designed for the European and Asian markets, Philips Strand Accent DMX stations are simple to use and operate. Each station supports up to 48 DMX dimmers. Room 1 has dimmers 1-48, room 2 has dimmers for 49-96 and each additional room increments in blocks of 48 to a maximum of 8 rooms. Room selection is via dipswitch on the back of each station. A21, Wallrack, and C21/EC21 racks support DMX512-A patching allowing the creation of smaller rooms using their integrated Mux patch functionality.

Each station has a built in IR port for use with the included IR remote programmer. The programmer allows the operator to record, modify and playback presets on each station. Designed to fit in a single gang back box these stations provide a clean simple to use control interface. Pre-sets can be selected at the touch of a button and the integrated raise lower keys allow the operator to master an entire pre-set proportionally.



## Accent DMX Pre-set Control Stations

	Finish	Back box size	Order Code
Accent DMX pre-set control stations, with wireless IR remote programmer, 8 push button	White	1-gang	63200
Accent DMX pre-set control stations, with wireless IR remote programmer, 4 push button	White	1-gang	63201

## Back boxes for Accent DMX Panels

	Order Code
1-gang masonry back box (A) RACO 695, BWRS 1MB	66801



## Accessories

	Order Code
Spare Accent DMX wireless IR remote programmer	63203

## Features

- Available in Asian markets.
- Four and eight pre-set control stations with individual pre-set fade times.
- Raise lower mastering.
- Up to 48 dimmers per room, up to 8 stations and 8 rooms per system.
- Room selection by dip switch selection on control station no special programming required.
- Compatible with all Strand dimmer racks DMX512-A.
- Wireless IR remote provided with each station for simple programming and remote pre-set access.
- Secure, fastener-free faceplates.
- Secure digital control wiring system.
- Fits standard U.S. 1-gang deep masonry box.
- DMX512-A (1990) output.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Controls: SL SC-DMXrec

The Showline SC-DMXrec is a simple show controller designed to playback DMX information for applications where a full lighting control console is not required. Record up to five hours of show time, or record snapshots of incoming DMX information from a lighting control console. Create scenes, chases and shows for playback as required and assign to one of eight memory slots.

A comprehensive choice of cue/chase/show triggering delivers full flexible solutions for installations where DMX luminaires need to be integrated into a building lighting control system. Recorded data can be easily backed up via the SD card slot, or directly copied to a PC via USB cable. The SC-DMXrec can also be utilized as a simple back up show controller for applications requiring redundant control.

Recorded data can be easily backed up via the SD card slot, or directly copied to a PC via USB cable. The SC-DMXrec can also be utilized as a simple back up show controller for applications requiring redundant control.



### Product specification

	Input	Overall dimensions L x H x W	Weight	Order Code
SC-DMXrec playback controller	9VDC, 500mA 5 pin XLR socket for DMX 512 (DMX in) 5 pin DIN socket for MIDI 5 pin XLR socket for SMPTE 8 dry contact closures for memory selection 4 dry contact closures for memory triggering	482 x 44 x 78mm	1.1kg	88-095-3030-00

### Features

- Records and outputs one universe of DMX512-A.
- 5 trigger modes: internal timeclock, SMPTE, MIDI, DMX, and manual.
- 8 memories with individual settings for assigning shows, scenes or chases.
- Over five hours of storage for show time.
- 4 recording modes.
- Dry contacts available for each memory and playback controls.
- Terminal connectors for input and output connections.
- Color LCD display for easy configuration.
- Two year limited warranty.

### Suggested uses:



For further information visit [philips.com/showline](http://philips.com/showline)

# Controls: SL RDM Commander

The Showline RDM Commander is the latest testing, setting and monitoring tool for all DMX and/or RDM capable devices. Aside from the normal characteristics of a standard DMX tester, the unit is equipped with a wide range of additional features for use with RDM ready devices and moving lights; such as address setting, temperature monitoring, group setting, copy and paste and many more. With its in-built rechargeable battery, the RDM Commander is ideal for all on-site or bench testing applications.



## Product specification

	Overall dimensions L x W x H	Weight	Order Code
SL RDM Commander	208 x 208 x 75mm	0.6kg	88-095-50000-00

## Features

- Lightweight and easy to use.
- Large clear display.
- Built-in rechargeable 4x 1.2V/1600mA batteries for easy use in the field.
- Short cut function available.
- SD card slot for program update.
- Standard DMX512-A and RDM protocol compatible.
- Two year limited warranty.

## Suggested uses:



For further information visit [philips.com/showline](http://philips.com/showline)

# Data distribution: DMX Networking Nodes

The next generation of DMX512 networking nodes. Following on the heels of the N21 ShowNet nodes, the DMX512 Networking nodes expand the formats supported to include sACN, Art-Net, RDM, ShowNet, Vision.net and more.

Compact and flexible, these networking nodes provide cost-effective network connectivity for facilities of all sizes. Each node can be dynamically configured for input or output operation or Vision.net bridging. Node status, Node ID, port identification, and configuration are available on the integral LCD display (three-port and eight-port models). The display features a full-range of menu options and the backlight are user adjustable.

All Philips Strand Lighting networking nodes feature advanced DMX512 patching, permitting any range of 512 numbers to be selected for each DMX512 port. Priority patching with up to three levels of priority assignments is available.



## Product specification

	Ports	DMX	Ethernet	Protocols	Overall dimensions L x W x H	Weight	Order Code
Networking Node	1	1x 5-pin Female XLR	1x RJ45	E1.31 Streaming ACN (sACN) Art-Net™ ShowNet RDM	70 x 95 x 128mm	0.70kg	65161
Networking Node	3	3x 5-pin Female XLR	3x RJ45	E1.31 Streaming ACN (sACN) Art-Net™ ShowNet RDM	115 x 95 x 128mm	0.86kg	65163
Networking Node	8	8x 5-pin Phoenix	2x RJ45	E1.31 Streaming ACN (sACN) Art-Net™ ShowNet RDM	442 x 160 x 44mm	1.86kg	65168
Networking Node	8	8x 5-pin Female XLR	2x RJ45	E1.31 Streaming ACN (sACN) Art-Net™ ShowNet RDM	442 x 160 x 44mm	1.86kg	65168-1

## Product specification

	Description	Order Code
Networking Node PCB	Dual Port (includes DMX B RJ45 port), For R21/A21/Contact Systems	74261

## Features

- Compact and cost-effective DMX512 nodes.
- Fast 40 Hz DMX512 update rate.
- Ports may be custom configured with any of the DMX512 addresses for complete system flexibility.
- Ports may be configured to support Vision.net control - bridging to Vision.net areas.
- 10/100BT ethernet operation.
- Three-port and eight-port nodes provide an integral LCD display provides node and port labeling, node status and configuration information.
- Integral LCD display (three-port and eight-port models) is user adjustable for dark applications.
- 1U rack mount nodes available with eight DMX512 ports - two models either 5-pin Phoenix or 5-pin XLR connectors.
- Nodes are available in wall mount and 1U rack mount variants.
- Single-port and three-port models include back box (for flush or surface mounting), rubber feet and removable C-clamp.
- Single-port node fits into standard single-gang box and three-port node fits standard two-gang back box.
- Single-port and three-port nodes are fully compliant with IEEE802.3af power over ethernet.
- Compatible with ShowNet, sACN, Vision.net and Art-Net nodes and control systems.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Data distribution: Emergency DMX Bypass Switch

The Philips Strand Emergency DMX Bypass Switch provides emergency and panic lighting control solutions for DMX driven house lights and DMX controlled lighting used in emergency and egress lighting.

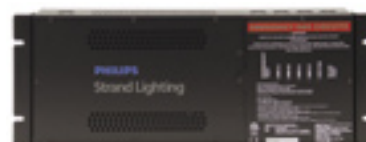
Each bypass unit handles up to four (4) individual universes of DMX or can be used as a DMX splitter handling 1 in 4 out, or 2 in 2 out routing scenarios.

The bypass handles more than just emergency and has separate triggers for panic situations as well.

Each state – panic or emergency, can be set to trigger “snap shot” loads or can be set to drive all loads on each DMX path to 100%. Each state (panic or emergency) can be triggered via normally open, normally closed dry contacts, or from a 12VDC signal.

Once the state is returned to normal, the bypass returns loads to the DMX controller in a variety of different ways. These return states can be timed at 1 minute, 10 minutes, or can be set to return under intelligent timing when valid DMX inputs are sensed.

This device is a simple affordable solution for all of your DMX emergency and panic system needs.



## Product specification

	Mounting	Overall dimensions W x H x D	Weight	Order Code
Emergency DMX Bypass Switch	Surface / rack	483 x 178 x 77mm	4.4kg	96250

## Features

- Intelligent emergency call and reinstatement modes.
- Accepts up to four (4) DMX universes.
- Emergency input.
- Panic input.
- Integrated DMX splitter with user-selectable operational settings.
- Emergency and panic test buttons.
- Durable, steel construction that easily mounts near lighting control panels or inside 19inch racks.
- Reversible ears for rack or wall mounting.
- Data connectors on screw terminals for ease of installation.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Data distribution: RDM-6R Splitter

The Philips Strand RDM-6R Splitter is a 19inch rack mounted DMX/RDM splitter designed for system integration applications, where DMX/RDM distribution tools are needed.

The unit provides 5 pin XLR connectors for DMX/RDM pass-through, supporting bidirectional communications for discovery, addressing and DMX control of devices. The output 5 pin XLR sockets are electronically isolated from the input & RDM-through port, sharing a common ground reference.



### Product specification

	Overall dimensions W x H x D	Weight	Order Code
DMX512-A / RDM 6 ports splitter, 1U rack mount	482 x 185 x 44mm	2.0kg	RDM6R

### Features

- 19inch rack mount format 1U high.
- Hardwired power input cable to bare ends.
- DMX512-A / RDM and DMX-512(1990) on 5 pin XLR connectors.
- DMX in and thru connections on rear.
- 6 isolated buffered outputs on the front.
- DMX line termination push button.
- Front panel on / off switch.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Data distribution: RDM-6TS Splitter

The Philips Strand RDM-6TS Splitter is a truss mounted DMX/RDM splitter, designed for event and touring applications, where DMX/RDM distribution tools are needed close to the light fittings.

The unit provides 5 pin XLR connectors for DMX/RDM pass-through, supporting bidirectional communications for discovery, addressing and DMX control of devices. The output 5 pin XLR sockets are electronically isolated from the input and RDM-through port, sharing a common ground reference.



### Product specification

	Overall dimensions W x L x H	Weight	Order Code
DMX512A(RDM) 6 ports splitter, truss mount	264 x 134 x 120mm	1.45kg	RDM6TS

### Features

- Truss mounted format.
- Hardwired power input cable to bare ends.
- DMX512-A(RDM) and DMX-512(1990) on 5 pin XLR connectors.
- DMX In and thru connections on one side.
- 6 isolated buffered outputs on the other.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Data distribution: RDM-6Wall Splitter

The Philips Strand RDM-6Wall Splitter is a 6-output DMX/RDM wall mounting splitter, designed for system integration applications, where simple DMX/RDM distribution tools are needed.

The unit provides DMX/RDM pass-through, supporting bidirectional communications for discovery, addressing and DMX control of devices. Taking the incoming DMX/RDM signal and splitting the signal into six separate output channels, expanding the number of devices that may be connected to a DMX line.

The output terminals are electronically isolated from the input and RDM-through port and share a common ground reference. All six output ports have an independent output driver to boost the DMX/RDM signal.



### Product specification

	Overall dimensions L x H x W	Weight	Order Code
DMX512-A / RDM 6 port splitter, wall mount	195 x 22 x 106mm	0.2kg	RDM6WALL

### Features

- Contractor friendly, small compact format.
- Surface or DIN-rail mountable.
- 1:6-way DMX/RDM splitter / booster.
- Isolated DMX/RDM input / outputs.
- Low voltage 24V power input.
- DMX/RDM in / thru connectors with screw terminals.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

## Power controls

Whether your goal is to create a future proof facility using the latest advances in LED and other light source technologies, or you prefer to follow traditional power management designs with a centralised system, Strand Power Management has the solution.

### Live performance venues

Quiet, flexible and cost-effective distributed power solutions ideal for theatrical installations of any size.

Easy to install and operate, our eS21 power management system connects seamlessly with our network-based lighting control consoles and Vision.net architectural controls to form fully integrated lighting control systems which freely mix conventional, automated and LED lighting loads.

### Broadcast studios

Low-energy studio lighting combining LED luminaires with complete control while significantly reducing your air conditioning costs. Our silent distributed dimming and control systems allow you to create a studio anywhere without worrying about expensive and elaborate dimmer rooms and power systems.



# Power controls: EC21 Racks and Processors

The Philips Strand EC21 dimming system represents premium performance and high value for all levels of users. Designed to interface directly with Strand Lighting's ShowNet ethernet, the EC21 system includes an ethernet port and an optional integral 4-port switch and a wide range of inputs. Two DMX512 inputs are standard with the second input available for use as an RS485 port to support our Vision.net architectural system and 128 back-up presets.

All Thyristor dimmers feature highperformance chokes and two levels of rise time filtering. The latest technology IGBT dimmers are available in dual 2.5kW and single 5kW dimmer modules. IGBT dimmers provide virtually silent loads. The EC21 system may be fully populated with IGBT dimmers or mixed with Thyristor dimmers in the same rack offering best value.

EC21 Dimming systems feature a universal 24 or 48-module rack design that provides support for 90–260 volt operation and is CE marked, meeting a wide range of requirements within a single rack.



## Product specification

Type	Overall dimensions H x W x D	Weight	Order Code
EC21 advanced technology dimmer rack, 48 module, single top feed	2032 x 623 x 660mm	226kg	75502/230
EC21 advanced technology dimmer rack, 48 module, single top feed with Amp traps	2032 x 623 x 660mm	226kg	75503/230
EC21 advanced technology dimmer rack, 24 module, single top feed	1448 x 623 x 660mm	181kg	75512/230
EC21 advanced technology dimmer rack, 24 module, single top feed with Amp traps	1448 x 623 x 660mm	181kg	75513/230

## Housings

	Order Code
EC21 single 96-output rack processor housing with processor	76520-0001/EC
EC21 single 96-output rack processor housing with processor and architectural power supply	76520-0002/EC
EC21 single 96-output rack processor housing with processor and ethernet switch	76520-0003/EC
EC21 single 96-output rack processor housing with processor architectural power supply and ethernet switch	76520-0004/EC
EC21 tracking backup 96-output rack processor housing with two processors, architectural power supply and ethernet switch	76520-0005/EC
96-output spare / backup rack processor module	76522/230

## Features

- 24 and 48 module racks with lockable easy view steel doors.
- Plug-in modular dimmer system.
- Advanced technology processor features a built-in ethernet input port.
- An optional plug-in ethernet switch is available to link multiple racks.
- European DIN standard breakers.
- Optional RCD per circuit.
- Ample wire chamber for ease of installation and to accommodate oversize load wiring.
- Fault beacon for easy notification of faults.
- Web browser configuration.
- Vision.net architectural control.
- 128 back-up pre-sets.
- DMX512 input with patch.
- Dual Processor option with full tracking back up available.
- Emergency rack panic feature (hard wired for security of local or remote control).
- Dual 2.5kw and single 5.0kW IGBT dimmer with 650µs rise time.
- Dual 3.0kW and 5.0kW Thyristor dimmer modules with 200µs or 435µs filter chokes.
- Contactor and Fluorescent modules available to control a wide range of loads.
- IGBT and Thyristor modules may be mixed in the same rack.
- Optional Amp traps for full 100,000 AIC fault current rating.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Power controls: EC21 Dimmer Modules

The Philips Strand EC21 dimmer rack was developed in response to in-depth market research from key customers and consultants. The EC21 has set an unprecedented industry first by providing the ability to install 96 2.5kW IGBT dimmers in a single rack – greatly increasing dimming density for IGBT users.

The EC21 dimming system allows users to freely mix dimmers of any type (both IGBT and conventional modules) within a single rack. All dual and single dimmer and contactor modules may be ordered with our optional dimmer status reporting electronics, providing system operators with a wide range of dimmer information.

All dimmer status and rack configuration is available via any web browser connected to the lighting network. EC21 dimmer systems feature a universal 24 or 48-module rack design that provides support for 90–260 volt operation and are CE marked.



## IGBT dimmer modules

Type	Order Code
EC21 230VAC 2.5kW dual IGBT module, 16A SP	76674
EC21 230VAC 2.5kW dual IGBT module, 16A RCBO	76675
EC21 230VAC 5.0kW dual IGBT module, 16A SP	76676
EC21 230VAC 5.0kW dual IGBT module, 16A RCBO	76677

## Constant modules (non-dim)

Dual 3kW SP	76658
Dual 3kW SPN	76659
Dual 3kW RCD	76660
Dual 5kW SP	76664
Dual 5kW RCD	76666
Dual 5kW RCD reporting	76669

## Fluorescent modules (3 wire)

Single 3kW FL SP	76643
Single 3kW FL SPN	76644

## Contactor modules (non-dim)

Dual 3kW ND SP	76646
Dual 3kW ND SPN	76647
Dual 3kW ND RCD	76648
Dual 3kW ND SP reporting	76649
Dual 3kW ND SPN reporting	76650
Dual 3kW ND RCD reporting	76651
Dual 5kW ND SP	76652
Dual 5kW ND RCD	76654
Dual 5kW ND SP reporting	76655
Dual 5kW ND SPN reporting	76656
Dual 5kW ND RCD reporting	76657

## Thyristor dimmer modules - standard dimmers

Type	Order Code
Dual 3kW 200µs SP	76601
Dual 3kW 200µs SPN	76602
Dual 3kW 200µs RCD	76603
Dual 3kW 435µs SP	76604
Dual 3kW 435µs SPN	76605
Dual 3kW 435µs RCD	76606
Dual 5kW 200µs SP	76613
Dual 5kW 200µs SPN	76614
Dual 5kW 200µs RCD	76615
Dual 5kW 435µs SP	76616
Dual 5kW 435µs SPN	76617
Dual 5kW 435µs RCD	76618
Single 10kW 200µs SP	76625
Single 10kW 200µs SPN	76626
Single 10kW 200µs RCD	76627

## Thyristor dimmer modules - reporting dimmers

Dual 3kW 200µs SP	76607
Dual 3kW 200µs SPN	76608
Dual 3kW 200µs RCD	76609
Dual 3kW 435µs SP	76610
Dual 3kW 435µs SPN	76611
Dual 3kW 435µs RCD	76612
Dual 5kW 200µs SP	76619
Dual 5kW 200µs SPN	76620
Dual 5kW 200µs RCD	76621
Dual 5kW 435µs SP	76622
Dual 5kW 435µs SPN	76623
Dual 5kW 435µs RCD	76624
Single 10kW 200µs SP	76631
Single 10kW 200µs SPN	76632
Single 10kW 200µs RCD	76633
Single 10kW 435µs SP	76634
Single 10kW 435µs SPN	76635
Single 10kW 435µs RCD	76636

## Filler modules (no electronics)

Single filler	76588
Row filler module	76697

# Power controls: EC21 Power Through Dimming Modules

Philips Strand EC21 Power Through Modules offer a dual 250uS/400uS (230 VAC) SSR dimmer (Silicon Controlled Rectifier) in conjunction with a mechanical bypass relay for each dimmer. Each module has two individual recess mounted switches that allow for a manual switch control between dimmer, power through and non-dim (relay) so that there is never a mistake about how your system is set up.

Many solid state lighting instruments do not like power from a dimmed circuit. The manual switches on each module ensure that you have complete control of your rig's power with-out any question regarding remote activation or deactivation of your EC21 Power Through Module settings.

In dimmer (DIM) mode, the SSR will work exactly the same way that EC21 dimmers have worked for years.

In power through (BP-constant) mode the circuit will completely bypass the choke and SSR giving you clean power to your lighting devices and power supplies that require a constant power feed. In non-dim mode (ND) the delivery of full power to the load is controlled via the console.



## 240VAC - 16A, 3.0kW, dual SSR dimmers

Type	Order Code
EC21 dual 3kW Dim/BP module with RCBO 250µs	76603BP
EC21 dual 3kW Dim/ND/BP module with RCBO 250µs	76603BPR
EC21 dual 3kW Dim/BP module with RCBO 400µs	76606BP
EC21 dual 3kW Dim/ND/BP module with RCBO 400µs	76606BPR
EC21 dual 3kW Dim/BP module with RCBO 250µs with reporting	76609BP
EC21 dual 3kW Dim/ND/BP module with RCBO 250µs with reporting	76609BPR
EC21 dual 3kW Dim/BP module with RCBO 400µs with reporting	76612BP
EC21 dual 3kW Dim/ND/BP module with RCBO 400µs with reporting	76612BPR

## 240VAC - 25A, 5.0kW, dual SSR dimmers

Type	Order Code
EC21 dual 5kW Dim/BP module with RCBO 250µs	76615BP
EC21 dual 5kW Dim/ND/BP module with RCBO 250µs	76615BPR
EC21 dual 5kW Dim/BP module with RCBO 400µs	76618BP
EC21 dual 5kW Dim/ND/BP module with RCBO 400µs	76618BPR
EC21 dual 5kW Dim/BP module with RCBO 250µs with reporting	76621BP
EC21 dual 5kW Dim/ND/BP module with RCBO 250µs with reporting	76621BPR
EC21 dual 5kW Dim/BP module with RCBO 400µs with reporting	76624BP
EC21 dual 5kW Dim/ND/BP module with RCBO 400µs with reporting	76624BPR

## Features

- Future proofing your lighting system for both incandescent, LED, or moving lights.
- Flexible loading – when the lighting plot is consistently hanging due to performance needs allowing for “mixed” circuiting between dimmed or relay controlled circuit.
- When using a hybrid lighting plot of traditional fixed and moving lights or LED luminaires that need a relay controlled straight power circuit.
- Any application that utilizes both standard forward phase dimming and contact relay straight power.
- Two year limited warranty.

# Power controls: Wallrack Dimming Panels

Designed for the 230/240V markets, Philips Strand Wallrack digital dimming panels define the new standard in permanent installation dimming for small/medium entertainment and architectural venues, the Wallrack digital dimming panels are available in three sizes. Wallrack digital dimming panels are convection cooled (no fans) and yet extremely compact – great for distributed dimming schemes or just to get a lot of dimmers into a small space!

All versions of the Wallrack digital dimming panel are provided with plug-in control processors – stylish, easy to use, and very easy to maintain. Wallrack digital dimming panels have dual DMX512 inputs, so you can use a Philips Strand lighting console on one input and a DMX architectural control network on the other.

Wallrack digital dimming panels offer a simple panic feature too, for connection to emergency systems, or just for cleaners' lights. All Wallrack digital dimming panels may be upgraded to earth-leakage protection at installation, using standard 4-pole RCDs.

Use two 4-pole 60 Amp DIN rail mounting RCD, with DC pulse rating to upgrade the 24 x 2.5kW Wallrack digital dimming panel at time of installation.



## Product specification

	Overall dimensions H x W x D	Order Code
Wallrack Dimming Panel, 24 x 2.5kW 230V	870 x 549 x 164mm	75356
Wallrack Dimming Panel, 6 x 2.5kW 230V	507 x 351 x 158mm	75357

## Features

- Available in 24 x 2.5kW and 6 x 2.5kW configurations.
- 220-240VAC, 3-phase/single phase operation.
- MCB (SPN) protection for each channel.
- Field-upgradeable to RCD protection.
- Easy installation/compact size.
- Convection cooled – no fans.
- Substantially overrated power devices.
- Dual DMX512-A input, DMX512-A patch and DMX512-A output.
- Powerful patch, with user-selectable curves and non-dims.
- 8 remote pre-set closures and panic input.
- Up to 6 analogue outputs for external fluorescent or contactor operation.
- Plug-in control electronics for easy maintenance.
- Ample cable space for top or bottom entry.
- Simple and intuitive software configuration.
- LED indicators for 3 phases, DMX A and B, and over-temperature.
- Integral power supply for up to eight Accent DMX architectural control stations.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Power controls: Relayrack

The Relayrack relay panel is a simple to install, program and use 12-channel relay panel. Each channel is rated for 220~240VAC, 2kW / 10 Amp output (single or 3-phase star) and is the perfect solution for any space or where reliable circuit switching is required.

The Relayrack relay panel is controlled either by RDM (E1.20-2006), DMX512, or Vision.net protocols making it adaptable to small or large-scale systems.



## Product specification

	Overall dimensions H x W x D	Weight	Order Code
Relayrack Relay Panel, 12 channel	475 x 332 x 137mm	9.4kg	76412

## Features

- 12-channel relay panel.
- Supports RDM (E1.20-2006), DMX512-A, and Vision.net control protocols.
- Local control for each channel located on the panel for easy setup and installation.
- Single panic input for fire alarms.
- Separate DMX512-A addressing for each channel.
- 10 Amps output on each circuit for resistive loads (8 Amps per circuit for inductive loads) in single or 3-phase.
- 2 line, 8 character LCD display to view current operational status and channel states.
- Over-current protection – 10 Amp circuit breaker for each channel.
- Maximum power – 120 Amps at 230VAC single phase or 40 Amps per phase in 3-phase applications.
- Two year limited warranty.

## Suggested uses:



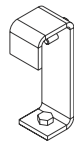
For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Power controls: eS21 Dimmer Strips

The eS21 Dimmer Strips are a range of portable dimmers that can be mixed and matched as needed to create a completely flexible lighting system to meet the needs of any installation. The dimmer strips feature quiet convection cooled IGBT dimming for low lamp noise and reliable operation. These modular raceways are assembled to order with a choice of any combination of 3 power modules.

The IGBT dimmer module features an Insulated Gate Bipolar Transistor power device that works in tandem with a dedicated microprocessor to control almost any type of lighting load required. The relay module features two switched circuits each with a DMX output designed to power range of LED lighting luminaires and automated sources. Each relay can be individually controlled to “Power down” the lighting rig when it is not in use.

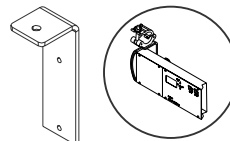
The eS21 dimmer strips are ideal for smaller systems and may be used in any facility or situation that does not have space for conventional dimmer racks, or where relayed and constant power is required. eS21 dimmer strips are easy to install and can be fed from standard breaker panels.



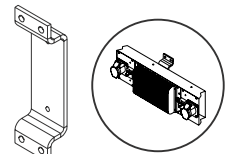
Hook clamp



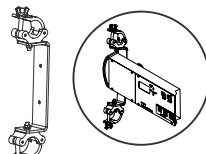
Cheeseboro clamp



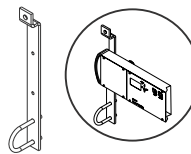
Pipe mount bracket



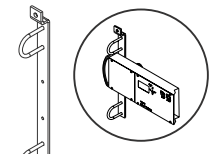
Wall mount bracket



Dual clamp mount hanging bracket



Single pipe mount hanging bracket



Double pipe mount hanging bracket

## Features

- Fully digital dimmer strip with forward / reverse phase dimming (automatic or user-selectable) and mains input breaker.
- Compatible with new LED luminaires that require reverse phase operation.
- DMX512 I/O.
- Quiet convection cooled dual IGBT dimmers.
- No dimmer room required and no added cooling needed.
- Energy efficient – only a 2.5 volt insertion loss.
- Dimmer strip features 6 dimmers packaged in three dual modules.
- Solid-state dimming technology with adjustable transition (rise) time up to 650ms for quiet operation.
- Low Harm™ mode to reduce neutral harmonics.
- Automatic overload short circuit protection.
- Local focus buttons and LED status indicators.
- Simple set-up with back lit LCD display and easy button access. LCD blacks out when not in use.
- Choice of 3 power input locations - top, bottom and back.
- Wide range of load connector options.
- Available with RCBO load protection on CEE17 connector model.
- Compact size for easy installation.
- Integrates with Strand EC21 dimmers.
- Hangers available for wall and pipe mount applications.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Power controls: eS21 Dimmer Strips

## eS21 Dimmer Strips, 230/240 Volt

Type	Order Code
3, dual 2.5kW (max.) dimmer modules, 650ms transition time, eS21 Dimmer Strip with with powerCON connectors and main breaker (no load breakers)	71600
3, dual 2.5kW (max.) dimmer modules, 650ms transition time, eS21 Dimmer Strip with CEE17 connectors and main breaker (with RCD load breakers)	71601
3, dual 2.5kW (max.) dimmer modules, 650ms transition time, eS21 Dimmer Strip with CEE17 connectors and main breaker (no load breakers)	71602

NOTE: Each eS21 IGBT dual module contains two dimmers and is fully rated at 2.5kW per module.  
 The 2.5kW rating of the module may be split evenly across both dimmers at 1.25kW, used on a single dimmer at 2.5kW, or any combination of loads on either dimmer that does not exceed 2.5kw per module.  
 eS21 Dimmer Strips do not include input power cables.

To build your custom eS21 Dimmer Strip choose any combination of module options below for each module position and Strand Lighting will construct the eS21 Dimmer Strip to your specification.

Example configuration:

eS21 LED Raceway product number: 71900 - DB-RC-DB

This configuration has two Dual 2.5kW dimmer modules with CEE17 connectors and one relay module for switched power luminaires and DMX.

## eS21 Dimmer Strip

Type	Order Code	Add suffix
	71900	
Module 1		-XX
Module 2		-YY
Module 3		-ZZ

## eS21 Dimmer Strip module options

	Order Code
Dual 1.2kW dimmer module with CEE17 connectors	DA
Dual 2.5kW dimmer module with CEE17 connectors	DB
Single 5.0kW dimmer module with CEE17 connectors	DC
Relay module with CEE17 output connectors	RC
Relay module with powerCON output connectors	RD
Blank panel – no power, no connectors	BP

NOTE: eS21 Dimmer Strip do not include input power cables.

## Accessories – clamps / mounting / hangers

Hook clamp	71729
Cheeseboro clamp	71351
Pipe mount bracket (for use with Cheeseboro or Hook clamps - metric)	71726
Dual clamp mount hanging bracket (for use with Cheeseboro or Pipe clamps)	71510
Wall mount bracket (metric)	71728
Single pipe mount hanging bracket	71732
Double pipe mount hanging bracket	71733
DMX terminator	71346

## Spare modules

Spare 230V / 240V dimmer module	71700
Spare processor / LCD display unit	71701

## Power controls: SD6 Dimmer Pack

Specifically designed for 230 / 240 volt dimming markets, the Philips Strand SD6 digital dimmer pack offers user-friendly controls in a portable, rack mount package.

The SD6 digital dimmer pack contains six 13 Amp (2.5kW) 230 / 240 volt dimmers. Each dimmer can be configured directly from the unit's on-board LCD menu for dimming or non-dim operation, minimum / maximum output levels, dimming curves, and more.



### Product specification

Type	Overall dimensions W x H x D	Weight	Order Code
SD6 Digital Dimmer Pack, 6 x 13A (2.5kW) 230/240VAC, terminal strip	483 x 88 x 395mm	12kg	75400

### Accessories

	Order Code
SD6 back panel with 6 x 15A sockets	75411
SD6 back panel with 6 x Schuko sockets	75412
SD6 back panel with 6 x CEE 17 sockets	75413

### Features

- Six 13 Amp (2.5kW) dimmers for 230/240 volt operation.
- Main circuit breaker for each dimmer.
- Designed for single or three-phase supplies.
- Fully digital control electronics.
- DMX512-A in/out.
- Simple set-up using front panel keypad and LCD display.
- 24 back-up cues with backup link to connect multiple dimmer packs.
- Chase and scene pattern library for standalone operation.
- Individual settings for minimum / maximum output levels for each dimmer.
- Individual dimming curve selection for each dimmer.
- DMX512-A addressing with individual patching for all dimmers.
- Two year limited warranty.

### Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)



# Power controls: LightPack

Philips Strand LightPack LED Controller delivers power and control to Philips Color Kinetics Color Blast wash lights.

Smart addressing technology simplifies set-up and allows users to quickly address any luminaire regardless of type. Users set an address, select an operating mode and press a button to set up any connected luminaire. Each output is configured to match the luminaire regardless of the number of colors the unit supports and delivers exactly the right number of control channels needed. An intensity channel set up option is also available to make your luminaires even easier to use and program.

Ideal for a wide range of applications from special events to theaters and television studios the LightPack LED Controller delivers power and control anywhere you need it.

With the LightPack portable IGBT dimmers you can have our most advanced IGBT dimming technology in the palm of your hand. The new 750 watt and 1200 watt LightPack individual dimmers provide the ultimate in control flexibility, allowing you to have a dimmer right at your light source wherever and whenever you need it.

Quiet and reliable, the LightPack features easy to use DMX512-A addressing and DMX in / out connectivity. All LightPacks are convection cooled and very quiet so they can be placed anywhere. A wide range of hangers makes mounting your LightPack a snap.



## Product specification

	Overall dimensions H x W x D	Weight	Order Code
LightPack LED Controller, bare leads, 230V	83 x 106 x 244mm	1.90kg	71364
LightPack Dimmer, 750W 800µs, bare leads	173 x 114 x 74mm	0.91kg	71320
LightPack Dimmer, 1200W 800µs, bare leads	173 x 114 x 81mm	1.02kg	71321

## Accessories

	Order Code
LightPack LED controller C-clamp	SC
LightPack LED controller Cheeseboro clamp	71351
LightPack dimmer yoke mount bracket	71340
LightPack dimmer wall mount bracket	71341
LightPack dimmer pipe mount bracket	71342
LightPack dimmer pipe clamp	USCLAMP
LightPack dimmer network coupler, 5-pin turn F to F turnaround	71345
DMX512-A terminator	71346

## Features – LightPack LED Controller

- Simple, intuitive user interface.
- DMX input or local on / off / color select button.
- Status indicators.
- Two addressable outputs with tool free set up.
- Auto luminaire ID.
- DMX512-A in / out (thru).
- Universal operating voltage, 100 to 240 VAC.
- 8 or 16-bit operating modes allows users to choose fade resolution by luminaire.
- Intensity channel selection can add an intensity channel to any luminaire.
- Support for tunable white, RGB and RGBAW luminaires.
- Includes wall mount and pipe mount brackets (C-clamp sold separately).
- Rugged enclosure with integrated heat sinks for silent fan free operation.
- Integrated safety cable.
- Two year limited warranty.

## Features – LightPack Dimmer

- Quiet IGBT dimming technology – user-selectable dimming or non-dim modes.
- Less than 1.5V insertion loss.
- 750W or 1200W dimmers for 230V applications.
- Fully short-circuit, thermal and overload protection.
- DMX512-A in / out.
- Local control for easy set-up.
- 450µs or 800µs transition time (user selectable).
- Forward or reverse phase operation – rated to control any dimmable load such as incandescent, fluorescent, or general inductive (FPC only).
- Integrates with all Strand dimming systems.
- Nine built-in, preprogrammed dimmer effects – bounce up, bounce down, bump, sawtooth, blink on, blink off, strobe, flame flicker and bell curve.
- Optional wall, yoke, and pipe mounts (all mounts are sold separately).
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Power controls: Dim 1

The Philips Strand Dim 1 is a single channel portable dimmer, rated at 10 Amps (2.3kW) and is perfect for rental, small drama spaces, or anywhere where accurate and adaptable dimming is needed.

This DMX512-A controlled, convection cooled (no fans) dimmer comes with an external remote fader as well as an on-board external HTP slider, allowing users to manipulate the output of the attached fixture either separately or in conjunction with a larger system.



## Product specification

Type	Overall dimensions W x H x D	Weight	Order Code
Dim 1 10 Amp dimmer (UK 15A connector)	93 x 185 x 80mm	1.3kg	75821
Dim 1 10 Amp Dimmer (Schuko connector)	93 x 185 x 80mm	1.3kg	76574

Note: All Dim 1 dimmers include external remote slider fader.

## Features

- Wide range of socket options including UK 15A, Schuko, and Australian.
- Suitable for portable or wall mount operations
- On-board and external HTP (Highest Takes Precedence) slider.
- External remote supplied with single fader.
- DMX512-A in / out.
- Digital DMX512-A addressing.
- Capacity to set a dimmer pre-set value.
- Fan free convection cooling for quiet operation.
- Ability to select a maximum dimmer level.
- Simple setup through the LED display.
- Maximum power - 10 Amps / 2300 Watts.
- Two year limited warranty.

## Suggested uses:



For more information visit [philips.com/strandlighting](http://philips.com/strandlighting)

# Power controls: SD-DRIVE 1, SD-DRIVE 3 & SD-DRIVE 4

The Philips Showline SD-DRIVE 1, SD-Drive 3 and SD-Drive 4 are single, three and four channel dimmers respectively. Available in DMX control mode, manual mode. DMX address can be addressed by flipping the dip-switches.

A maximum 6 Amps are allowed.



## Product specification

	Overall dimensions H x W x D	Weight	Order Code
SD-DRIVE 1 single channel	20 x 90 x 40mm	0.15kg	88-095-0200-00
SD-DRIVE 3 three channels	23 x 115 x 54mm	0.65kg	88-095-2170-00
SD-DRIVE 4 four channels	23 x 115 x 54mm	1.00kg	88-095-2040-00

## Features

- DMX controlled.
- LED drivers in three versions: single channel, three channel and four channel.
- Up to 6A output capacity.
- Start-DMX address setting.
- DMX control mode or manual mode.
- 12-24V input power supply not provided.
- Two year limited warranty.

## Suggested uses:



For further information visit [philips.com/showline](http://philips.com/showline)

# NEO Consoles control new LED illumination at Niagara Falls

On December 1, 2016, the Niagara Falls Illumination Board debuted the new energy efficient LED illumination of the Falls controlled by two Philips Strand Lighting NEO lighting control consoles. These new lights provide more than twice the previous lighting levels, a wider spectrum of color and allowed for programmable lighting through the flexible NEO system.

Lighting effects such as sunrise, sunset and the Aurora Borealis can be easily displayed on the Falls nightly using the NEO Consoles. The new lights also provide a more consistent lighting effect on both sides of the Falls.

Comprised of several prominent lighting and construction industry leaders, the team represents local, Canadian and American companies on this international endeavor.

While the NEO Consoles provide the dynamic fade engine for the Falls, the triggering is done by touchscreen interfaces build from NEO's Mobile Interface Builder. This is the new user configurable interface that triggers any available NEO command

and became available on NEO software version 3.7. These Mobile Interface Builder files live on 2 separate PCs that each have a 22inch touchscreen monitor. Activating any button or slider on the touchscreen in turn will activate the appropriate command on the NEO Playback Controller. The touchscreens are run by volunteer operators so they had to be simple to use. There is even a touchscreen layout that the operators make available to public tours so that the public can trigger colors on the Falls themselves. There is one touchscreen for the American Falls and one for the Canadian Falls so they can be triggered separately from different cue lists on the NEO.

Niagara Falls

Photography: Bobby Harrell



# Glossary

## 8-bit

8-bit numbers have  $2^8$  (256) different values. Typical values range from 0-255.

## 16-bit

16-bit numbers can store  $2^{16}$  (65,536) different values. 16-bit values are typically used to give higher resolution control over 8-bit values, especially for control of moving lights and LEDs.

## Art-Net™

A data distribution protocol that allows DMX512 and RDM lighting data to be transported over an ethernet network.

## Acting area

That part of the setting / staging area / environment, in which performances take place.

## Advance bar

A spot bar hung within the auditorium, close to the proscenium.

## Ambient light

General illumination falling onto nearby surfaces. Particularly referring to random light spilling on a screen – e.g. room lighting illuminating a TV picture screen and degrading the image contrast and color quality.

## Anti-flare (dulling spray)

A fine wax coating sprayed over shiny surfaces in which specular reflections appear distracting on camera. The coating diffuses the reflection, but if over done, may modify the appearance of the subject.

## Amp

The measure of current in a circuit. Dimmers are usually specified by current rating rather than wattage, with the most common type being 10 Amps. Using the relationship  $\text{Watts} = \text{Volts} \times \text{Amps}$ , a 10 Amp dimmer is suitable for 2400W (240V x 10A).

## Apron

Part of the stage, which is in front of the proscenium arch.

## Attributes

The controllable functions of a remotely operated spotlight including pan, tilt, focus, shuttering, gobo selection, diffusion, filtering etc.

## Auto-transformer

An iron-cored coil across an arc. supply voltage that enables a variable voltage to be tapped off to provide adjustable lamp brightness.

## Automatic voltage control

Automatic voltage regulation (AVR) ensures that variations in the power drawn from the supply do not cause changes in the supply voltage. Without such control, increasing power loads can cause the line voltage to fall; or rise rapidly (surge) when an appreciable load is removed –possibly burning out ('blowing') remaining lamps.

## Available light

A general term for the unaugmented normal illumination present (natural and artificial) at a particular time and location. This has usually to be modified or augmented for technical or artistic reasons to produce high picture quality.

## Backing

The light illuminating the area behind a door or window in the set. Also the piece of scenery behind an entrance.

## Backlight (television)

Light directed towards the camera (usually on the rear of the subject) to define its outline, model its edges, or reveal translucency.

## Backlight (theater)

Light coming from behind scenery or actors to sculpt and separate them from their backgrounds.

## Backstage

The stage area behind the proscenium and behind the scenery.

## Bar

Horizontal metal tube, usually 48mm in diameter and suspended above the stage, onto which luminaires are fixed with hook clamps.

## Barndoor

Hinged metal flaps, sometimes in 2 but mostly in 4 or 8-leaf versions, slipped into runners on the front of a fresnel or PC spotlight to adjust the edge of the beam, or to reduce the spill light from the front of the lighting fixture.

## Base light

Overall softlight reducing lighting contrast; so avoiding exaggerating scenic tonal contrast.

## Battens

Lengths of overhead lighting floods arranged in 3 or 4 circuits for colour mixing. Also, lengths of timbers at the tops and bottoms of cloths.

## Batting down on blacks

Crushing the darkest picture tones to an even black; e.g. to obliterate unevenness in a black-ground caption (obviating shading or light fall-off).

## Beam angle

The angle (in degrees) of the beam at the point where the intensity drops by 50% of the peak value. It is used to calculate the useful diameter of the spot for a given throw distance. The diameter of the beam on stage is calculated as follows:  $\text{spot diameter (meters)} = 2 \times \text{throw (meters)} \times \tan(\text{beam angle}/2)$ .

## Beamlight

A luminaire, which creates a very narrow-angle beam of light by using a low-voltage filament and an optical system similar to a searchlight.

## Black light

UV (e.v.)

## Black level

The technical term for part of the video waveform representing black in the picture.

## Blind

When changes made at the control do not affect the current lighting state. For example, when a master fader is at zero and a preset is being prepared for the next scene.

## Board

One of the names for a control desk or console.

## Bloom (block off, crush-out, burn-out)

When the brightness picture tones (e.g. specular reflections, highlights) reach the upper limits of the video system (the white-clipper) they merge to become a blank white area. This excessive brightness may result from the surface finish, its tone, angle, or form over-lighting, or over exposure.

## Borders

Neutral or designed strips of material hung above the stage to form a limit to the scene and mask the technical regions above the performance area.

## Border lights

North American term for battens.

## Boom

A vertical pipe or bar for supporting spotlights and is usually seen on each sidewall of the auditorium or stage.

## Boom arm

A metal bracket, which bolts to the boom to support a spotlight.

## Brail

To pull suspended scenery or lighting upstage or downstage from its natural free-hanging position by means of short rope lines attached to the ends of the fly bar.

## Brest

To pull suspended scenery or lighting upstage or downstage from its free hanging position by means of a rope line passed across the fly bar's suspension.

## Bridge

An access catwalk, passing over the stage or incorporated within the auditorium ceiling, usually to facilitate spotlight focusing. Also, elevators, which raise and sink sections of a stage floor.

## Brightness (luminosity)

A subjective impression of the amount of light reflected from surfaces. Often very inaccurate due to psychological effects (adaptation illusions), e.g. a pure colour (highly saturated) may be wrongly interpreted as 'bright'. The term Luminance is used for accurate measurements of reflected light.

# Glossary

<p><b>Build</b> (1) An increase in light intensity. (2) To construct a scene from its component parts.</p> <p><b>Channel</b> The control path from the desk to the dimmer. A picture monitor continuously displaying the output of a particular channel.</p> <p><b>Channel access</b> The method (levers, pushes, keyboard, etc.) in a memory system by which individual channels are brought under operated control.</p> <p><b>Carbon arc</b> A luminant created by a gaseous discharge between two cerium-cored carbon rods. While arc lamps produce high intensity light of excellent color quality and sharpness, they require skilled operation and maintenance to achieve these properties, and to sustain and even, constant light output.</p> <p><b>Catenary</b> A flexible power feeder suspended at several points to enable movement of a lighting suspension unit e.g., pantograph Note: usually seen on overhead mobile cranes.</p> <p><b>Catwalks (walkway)</b> A confined passage in the studio ceiling, above any lighting grid, giving access to suspended lighting and staging equipment, air conditioning, hoists, etc. Also, used for narrow balcony (lighting gantry) affixed high around studio walls. Here luminaires can be attached to tubular rails, as can any manned lighting (follow spots), stagingtie ropes, slung cables, etc.</p> <p><b>Center stage</b> A position in the centre of the acting area.</p> <p><b>Chase</b> To switch lights, usually electronically, in a looped sequence so that they appear to be 'chasing' each other.</p> <p><b>Cheat</b> A change made very slowly in the hope that the audience will not be consciously aware.</p> <p><b>Check</b> To dim a light.</p> <p><b>Circuit</b> The electrical path from the dimmer to the luminaire.</p> <p><b>CID</b> Type of discharge lamp with a daylight color temperature. Abbreviation stands for Compact Iodide Daylight.</p> <p><b>Color balance</b> The adjustment of the relative strengths of the primaries of a color system (usually red, green, blue; or cyan, magenta, yellow) to provide optimum color reproduction</p>	<p>fidelity. When a system is accurately balanced throughout, each grey-scale step (value) from 'white' down through greys to 'black', will appear neutral (i.e. without coloration). When this (grey scale-scale tracking) is correct, no color-bias or color cast will exist.</p> <p><b>Color calibration</b> A color calibration system ensures that each pixel can replicate colors within a pre-defined color space. This color space will match all Philips Showline products and will also include pre-defined pre-set colors. The color calibration is set at the factory and will be capable of being enabled or disabled via the menu, DMX, and RDM.</p> <p><b>Color call</b> A list of the colors, with the cut size, needed for the show.</p> <p><b>Color correction filter (light conversion filter, color compensation filter)</b> Color medium placed over a light source to modify its color temperature (color quality), e.g. to match incandescent light to the color temperature of daylight.</p> <p><b>Color medium (gel)</b> A colored transparent or translucent material placed in front of a lamp to color the emergent light.</p> <p><b>Color temperature</b> A method of measuring (in Kelvin units) the spectral content of 'white light'</p> <p><b>Control surface</b> Any device such as lever, push, wheel, rocker, mouse, pen, cursor, etc., used as an interface between an operator's fingers and a processing system which activates dimmers or motors controlling lighting instruments.</p> <p><b>CSI</b> Type of discharge lamp. Abbreviation stands for Compact Source Iodide.</p> <p><b>Contactora</b> A remotely-operated heavy-duty relay used to switch on/off lamps connected to it.</p> <p><b>Contrast range (subject brightness range)</b> The brightness ratio between the lightest and darkest tones in a scene. Or the extreme ratio that a system can accommodate while still reproducing all intermediate tones reasonably accurately.</p> <p><b>Contrast ratio</b> A measurement of the relative brightness of any two tones, given as a luminance ratio.</p> <p><b>Cookie or Cucoloris – to give it its proper name</b> An irregularly-shaped stencil sheet placed in front of a spotlight to dapple the light beam, to produce either intensity variations, or a distinct shadow pattern.</p>	<p><b>Crossfade</b> The gradual changes from one lighting state to another.</p> <p><b>Cue</b> (1) A change a given lighting state (2) A signal given by the stage manager to start a change in the lighting.</p> <p><b>Cyc-light</b> Alight fitting with a specially-shaped reflector producing a broad elongated light-beam, enabling a background (cyclorama) to be lit evenly overall from a relatively close distance</p> <p><b>Cyclorama</b> The rear wall or backcloth of the stage, which can be lit from the front or behind, depending on the material from which the cyclorama is made.</p> <p><b>Depth of field</b> When a camera is focused sharply on a subject a zone nearer and further from it still shows detail reasonably clearly. This distance is known as the depth of field (often wrongly called 'depth of focus'). This depth zone-increases as the lens aperture is reduced, or the lens angle is widened, or the focus distance is increased.</p> <p><b>Diffuser (scrim)</b> Translucent material attached to the front of a lamp to disperse and soften the light quality, and to reduce its intensity.</p> <p><b>Dimmer</b> The part of a lighting system, which controls the power to the light.</p> <p><b>Dipless crossfade</b> A type of fade between two presets where channels with the same intensity in both presets do not dim and then brighten during the change.</p> <p><b>Dips or Dip-traps</b> Electrical sockets under the surface of the stage, which are used to connect practical's or side-lighting.</p> <p><b>Dip-traps</b> Hinged or removable hatches to access the 'Dips' below them. The Dip-traps will often be regularly located above a sunken trench around the stage playing area, allowing cables to be distributed and connected around the stage without disturbing the stage floor or show deck.</p> <p><b>DMX</b> DMX512 (Digital Multiplex) is a standard for digital communication networks that is commonly used to control stage lighting and effects. It was originally intended as a standardized method for controlling light dimmers, which, prior to DMX512, had employed various incompatible proprietary protocols. It soon became the primary method for linking controllers (such as a lighting consoles) to dimmers and special effects devices such as intelligent lights.</p>
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# Glossary

## **Downstage**

Towards the audience. The origin came from 'raked' stages, which were angled down towards the stage so that the audience sitting on a flat floor could see the actors more easily.

## **Ethernet**

A family of computer networking technologies commonly used in local area networks (LAN), metropolitan area networks (MAN) and wide area networks (WAN). It was commercially introduced in 1980 and first standardized in 1983 as IEEE 802.3 and has since been refined to support higher bit rates and longer link distances. Over time, ethernet has largely replaced competing wired LAN technologies such as token ring, FDDI and ARCNET.

## **Exposure**

The selective control of reproduced tonal values within a system's limits. Strictly, over-exposure results when reflected light exceeds the camera handling limits. Under-exposure arises when a surface is insufficiently bright to be clearly discerned in the picture.

## **Field angle**

The angle (in degrees) of the beam at the point where the intensity is 10% of the peak value.

## **Flag**

A metal plate fixed in an adjustable angle-arm, and held in a light beam; to provide a hard edge-or soft edged shadow, or the keep light off a selected subject area.

## **Floodlight**

A luminaire which produces a wide unfocused beam of light.

## **Floor lamp**

General name for a lamp fixed to an adjustable metal stand.

## **Focus**

To adjust the direction, beam angle, sharpness and shape of a beam of light.

## **FOH**

Front of House, or in front of the proscenium arch.

## **Follow spot**

A spotlight which is specially designed for manual control of movement to provide a personal beam of light for a principal actor.

## **Fresnel spot**

A spotlight with a fresnel lens giving a soft, even beam of light for general on-stage lighting of the acting area.

## **Frontal light**

Illumination from the camera direction (e.g. 10 to 15° off the lens axis).

## **Fuse**

A replaceable weak link in the electrical circuit which is designed to break and isolate the circuit if the current is too high.

## **Gaffer grip**

A sprung and screw-adjustable large-jawed clamp incorporating a 16mm spigot, enabling a light to be attached to a narrow structure, such as a door, chair or pole.

## **Gaffer tape**

A wide plasticised-fabric adhesive tape that has found many production applications. Used to tape bases of light-weight lamp fittings to walls, support wall cables, cover floor cables (lighting or sound), prevent movement of furniture or floor coverings, mark floor positions of furniture and performers etc.

## **Gamma**

A measurement of the tonal coarseness of subtlety in the reproducing system. A 'high gamma' picture has few half-tone gradations (i.e. tends to soot-and whitewash'). A 'low gamma' picture reproduces slight grey-scale differences distinctly (often over a narrower contrast range). Unless the overall gamma of a system is unity, relative tonal and color values are falsely reproduced.

## **Gate**

The internal part of a profile spotlight from where the beam of light is focused. The gate has a round hole (to give a round spot of light), and a mechanism to insert shutters, a gobo or an iris.

## **Get-in**

The whole process of installing and focusing your lighting into the theatre. Sometimes called the 'fit-up'.

## **Get-out**

The reverse procedure to the 'Get-in', after a production has finished and the lighting rig and stage equipment is returned to a default status.

## **Gobo**

A thin disc of stainless steel, glass or plastic with a pattern of holes, which is inserted in the gate of a profile spot to project the pattern onto the stage.

## **Groundrow**

A batten of floodlights on the stage floor to illuminate a backcloth from below.

## **Grandmaster**

A master fader which has total control of the output of the desk. Also the name of a large resistance dimmer switchboard of the 1930's.

## **Hard light**

Highly directional light casting well-defined shadows and revealing surface texture. Produced by a very localized light source.

## **Harmonize color calibration**

Harmonize color calibration process ensures color matching not only between luminaires, but also between individual pixels of each and every luminaire.

## **High key**

A picture in which mid to lighter tones predominate with little or no shadow.

## **HMI**

Type of discharge lamp.

## **Hoist**

A remotely-winchd or motor-driven mechanism, controlling a ceiling-located wire cable. The hoisting-hook is attached to suspended lighting equipment (e.g. a barrel) or used to support scenery (staging), slung monitors, boom cables, etc.

## **Hot**

Any over-bright area. It can result from over exposure, over-lighting (i.e. excessive illumination), or from an unsuitably light or shiny surface.

## **Hookclamp**

A hook-shaped clamp which suspends a luminaire from a bar.

## **HSIC**

High Speed Inter Connect.

## **Hue**

The predominate sensation of color, i.e. red, green blue etc.

## **House light**

Lights for illuminating the audience areas and transforming the ambient environment.

## **Iris diaphragm**

An adjustable diameter hole which fits the gate of a profile spot to alter the beam angle.

## **Key light**

The main light illuminating the subject (usually a fresnel spotlight in TV). The key light reveals the subject's form, contours, texture, and may suggest the prevailing light direction (e.g. that a subject is lit from a nearby window).

## **Kilowatt (kW)**

One thousand Watts. Used to define the size of a spotlight, and "one K" (or "two K") is often heard when referring to a 1000 (or 2000) Watt spotlight.

## **Lamp**

A glass-encapsulated source of light, which may be either a filament lamp or a discharge lamp.

## **Lantern**

The original stage term for a luminaire.

## **LED (Light-emitting diode)**

A two-lead semiconductor light source. It's a p-n junction diode, which emits light when activated. When a suitable voltage is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons. This effect is called electroluminescence, and the color of the light is determined by the energy band gap of the semiconductor. LEDs are typically small and integrated optical components that may be used to shape the radiation pattern.



# Glossary

## Lighting plot

A scale plan diagram indicating the positions and types of lamps used to light a situation. Details of cabling, patching, loads, accessories, color, height, etc., may be included.

## Limes

An antique term, although sometimes heard as jargon for followspots.

## Loom

A collection of lighting, power and data cables bundled together along a pre-configured truss or lighting bar.

## Luminance

The true measured brightness of a surface. Doubling the illumination produces double the surface luminance. Snow has a high luminance, black velvet as extremely low luminance.

## Master

A fader which has over-riding control over other faders. For example the 'A' master of a manual control desk controls the individual levels of each fader in the 'A' pre-set.

## Memory

An electronic recorder of a lighting state which can be re-called during the performance.

## Monochrome

Strictly speaking, 'single color'. Customarily refers to 'black and white' picture reproduction.

## MSR

Type of discharge lamp. Abbreviation stands for Medium Source Rare earth.

## Neutral density filter

Often referred to simply as ND 3 or 6 etc., it is a grey-tinted glass or polyester filter of specified density, used to reduce the effective image brightness (for exposure compensation) without affecting color reproduction or relative tonal values.

## OP

'Opposite Prompt' or Actors' Stage Right.

## Off-stage

Out of sight of the audience.

## Overload

To exceed the handling capacity of a system. In lighting, an excess power demand relative to a cable or supply's current/wattage rating, causing heating in wiring, connectors, etc., and voltage losses.

## On-stage

In sight of the audience, and towards center stage.

## Pantograph

A telescopic system from which a luminaire is suspended, that allows the luminaire to be raised and lowered to the required height, without adjusting the trim height of the TV hoist on which it is attached.

## Pan

To move a spotlight in the horizontal plane.

## Par can

A simple luminaire which usually houses a 1kW Par 64 sealed-beam lamp.

## Par lamp

A sealed-beam lamp which includes a reflector and lens.

## Patching

The process of temporarily linking a luminaire circuit to a particular dimmer.

## Pit

An area between the main stage and audience seating which can either be manually removed or mechanically lowered in order to create a large area for an orchestra or a smaller area for a band to be set out.

## Pixels

In digital imaging, a pixel is a physical point in a raster image, or the smallest addressable element in an all points addressable; so it's the smallest controllable element of a picture represented on the screen. The address of a pixel corresponds to its physical coordinates. LCD pixels are manufactured in a two-dimensional grid and are often represented using dots or squares, but CRT pixels correspond to their timing mechanisms. Each pixel is a sample of an original image; more samples typically provide more accurate representations of the original. The intensity of each pixel is variable. In color imaging systems, a color is typically represented by three or four component intensities such as red, green, and blue, or cyan, magenta, yellow, and black.

## Plano-convex lens

Normally referred to simply as a PC, this is a basic lens with one flat surface, and one curved surface.

## Playback

The part of a memory control which changes the current lighting to another lighting state in the memory.

## Plot

A list of instructions detailing the changes in lighting for the entire production.

## powerCON

A locking 20Amp 3 conductor equipment AC connector with contacts for line, neutral and pre-mating ground contact. It replaces appliance couplers wherever a very rugged solution in combination with a locking device is needed in order to guarantee a safe power connection.

## powerCON TRUE1

A locking 16Amp true mains connector. It replaces appliance couplers wherever a very rugged solution in combination with a locking device is needed in order to guarantee a safe power connection.

The powerCON TRUE1 is a connector with breaking capacity (CBC), i.e. it can be connected or disconnected under load or live.

## Practical

A table lamp, for example, which may be operated by the actor in view of the audience.

## Pre-set

For manual desks, the group of faders which control the dimmers. Most manual desks have two presets so one scene can be set up 'blind' while the other is active.

## Prism-convex lens

Similar to a plano-convex lens, but with an embossed pattern on the flat side of the lens to reduce filament pattern in the beam.

## Profile spot

A spotlight which can accurately project any pattern or shape placed in the gate.

## Proscenium

The arch surrounding the stage.

## Prompt

see PS.

## PS

'Prompt Side' or Actors' Stage Left.

## RCD

Residual Current Device which automatically disconnects the supply if there is risk of electric shock.

## RDM (DMX A)

Remote Device Management or RDM is a protocol enhancement to USITT that allows bi-directional communication between a lighting or system controller and attached RDM compliant devices over a standard DMX line.

## Record

The action of electronically storing the lighting state.

## RGBW

Red, green, blue and white LED chips.

## Rig

The lighting installation.

## Safety chain

A strong link chain to provide secondary support for any luminaire, or other item suspended in the theater.

## Saturation

The purity of the color. As a hue becomes pale-off or diluted by the addition of white light, it becomes de-saturated.

## SCR dimmer (silicon-controlled rectifier, thyristor)

A solid-state electronics device used to control lamp brightness, by cutting off part of the cycle of the alternating current supply. 'Clean-up chokes' are required to prevent sound-system interference and audible noise from lamps.

# Glossary

<p><b>Scrim</b> A diffuser often of cloth, supported some distance in front of a light source to soften illumination. Term also used for a thin metal mesh of various gauges.</p> <p><b>Set</b> The stage dressing for a scene, comprising scenery, props, practical's, borders and backcloths.</p> <p><b>ShowNet</b> The Philips Strand Lighting ShowNet network provides data distribution over a TCP/IP ethernet Network. Connections shall be made between consoles, computers and SN series nodes over a standard ethernet distribution systems using 10Base2 or 10/100BaseT wiring or a combination of both.</p> <p><b>Shutters</b> Thin metal plates which fit into the gate of a profile spotlight to obscure part of the beam. Mainly used to cut-off the beam at the edge of the stage or piece of scenery.</p> <p><b>Side light</b> Lighting across the subject, emphasising texture and surface contours. Generally exaggerates modelling; produces poor bisected portraiture on full-face shots.</p> <p><b>Softlight</b> Dispersed scattered light rays producing diffuse shadowless illumination. Produced by a large-area sources, through diffusion media (frosted filters), internal reflection, or multi-lamp sources.</p> <p><b>Spigot</b> A short rod, with threaded socket at one end, which screws to the stirrup of a spotlight so it can be fitted into a telescopic stand.</p> <p><b>Spill</b> Unwanted light that comes from the edge of a beam (beyond the 1/10th peak intensity). This can be reduced from fresnel and PC spotlights by using barndoors.</p> <p><b>Spotlight</b> A general term for a luminaire (usually with a lens) which projects a controlled beam of light.</p> <p><b>Stirrup</b> The U-shaped metal support of a luminaire. Sometimes called fork or yoke.</p> <p><b>Stopping down</b> Reducing the camera lens aperture (irising down) to prevent over-exposure of lighter scenic tones, to increase the depth of field, or to reduce reproduction tonal values.</p> <p><b>Tabs</b> Curtains at the front of the stage. Derived from the name Tableau curtains which exposed a tableau on stage.</p> <p><b>Three point lighting</b> A basic lighting arrangement in which a hard key light provides the main</p>	<p>illumination, soft light filler (fill light) reveals shadow detail and reduces lighting contrast, and a hard back light reveals outline detail and contour modelling.</p> <p><b>Throw</b> The distance from the luminaire to the stage.</p> <p><b>Thyristor</b> A semi-conductor power device. In a dimmer, one of these controls the amount of power going to the lamp each half cycle. Therefore two are needed for control of the complete cycle.</p> <p><b>Tilt</b> Movement of the luminaire in the vertical plane.</p> <p><b>Triac</b> A semi-conductor power device. One triac functions in a similar way to a pair of thyristors.</p> <p><b>Trim height</b> Setting a lighting or scenery bar at a specific height above floor level.</p> <p><b>Tripe</b> A bundle of lighting cables connected offstage at stage floor or fly floor level and attached to a lighting bar with sufficient spare length to permit the lighting bar to travel to its top and bottom dead without pulling the cables.</p> <p><b>Tuneable white</b> The conventional approach to color tuning in a white LED light fixture and typically combines cool and warm white LEDs which can be individually controlled like the red, green, and blue LEDs in a full-color LED device. Adjusting the relative intensities of the warm and cool LEDs changes the color temperature in a tuneable white device, just as adjusting the relative intensities of the red, green, and blue LEDs changes the color in a full-color device. This method is limited to efficiency and color rendering of fixed white phosphor based solutions. (Typical CRI Ra70-85, Typical R9 – 11-20).</p> <p><b>Tungsten halogen</b> Filament lamps using a tungsten filament in a quartz glass envelope containing an insert halogen gas.</p> <p><b>UV</b> Ultra violet light. This invisible radiation is used in its safe form, sometimes called 'black light'; to create special effects on stage by making special paint pigments fluoresce in the apparent absence of light. It is also produced by discharge lamps, where the radiation can be harmful, but is shielded by glass lenses.</p> <p><b>Upstage</b> The part of the stage furthest from the audience. It originated from the raked stage which slopes upwards towards the back.</p>	<p><b>Upstaged</b> When the audience's attention is distracted from the principle actor by a gesture or noise made by an actor behind him. Lighting can also upstage the action if the change in lighting is inappropriate (e.g. too sudden).</p> <p><b>Video control</b> Adjustment of various video equipment parameters to control picture quality; including exposure, black level (lift, sit, set-up), video gain, gamma, color balance. The video operator (vision control) continually monitors the output of all video sources, adjusting them for optimum quality matching.</p> <p><b>Volt</b> The measure of electrical potential.</p> <p><b>Watt</b> The measure of electric power.</p> <p><b>Vomitory</b> Referred to often as a 'vom' this is an entrance into the middle of the audience seating area from a level below or behind the seating. The entrance can also be used as a performers' entrance.</p> <p><b>Wings</b> The side of the stage which are invisible to the audience.</p> <p><b>Working lights</b> Special lighting circuits which are used for set construction, stage cleaning, and also between scenes (they are usually coloured blue during a performance) to allow the stage-crew to set the next scene.</p> <p><b>Zoom</b> An optical system used in many profile and followspots to vary the beam angle without loss of light.</p>
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