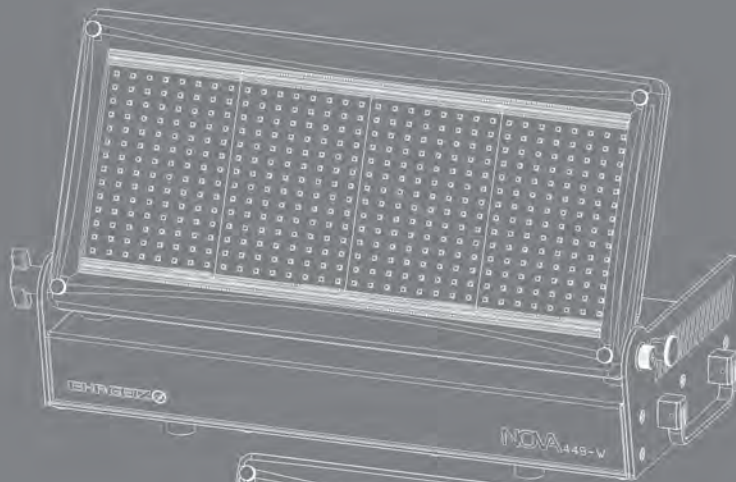
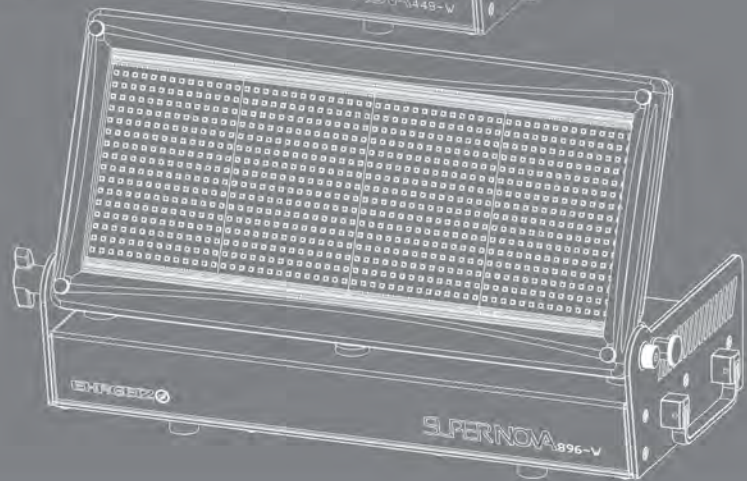


NOVA / SUPERNOVA

USER MANUAL



NOVA SUPERNOVA USER MANUAL



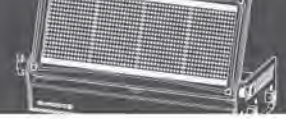
CONTENTS

| | |
|---|----|
| Safety Instruction | 1 |
| Fixture Dimensions | 3 |
| Rigging | 4 |
| DMX512 Connection | 6 |
| eventCON® Power+Data Connector System | 7 |
| eventCON® System Connection Merging | 8 |
| eventCON® System Connection Splitting | 9 |
| eventCON® Optional Cable System | 10 |
| Operating The Fixture | 11 |
| LED Segment Control | 13 |
| Menu Navigation | 14 |
| Fixture menu navigations | 16 |
| DMX Control Modes | 21 |
| Technical Specification | 26 |
| Trouble Shooting | 27 |
| Maintenance | 28 |
| Appendix | 29 |

Safety Instruction

Safety Instruction:

- Make sure all fixtures are operated and installed by qualified electrician with the relevant national certifications.
- In order to maintain the condition and to ensure a safe operation, it is important for all users to follow the safety instructions and warning notes written in this manual.
- Do not operate the fixture with missing or damaged covers, shields or any optical component.
Please consider that unauthorized modifications to the device are forbidden due to safety reasons.
- If the device is operated in any way that's not described in this manual, the product may suffer damage and the warranty will become void. Furthermore, misuse may lead to dangers like short-circuit, burns, electric shock, burns due to ultraviolet radiation, lamp explosion, crash, etc.



Liability:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized repair to the fixture.

Minimum distance to illuminate objects:

The fixture must be positioned at least 0.2m minimum distance to illuminate objects.

Minimum distance from inflammable materials:

Keep all inflammable materials at least 0.2m from this fixture.

Positioning:

Allow to place the fixture on an inflammable surface.

Maximum ambient temperature of unit location:

The maximum ambient temperature of 45°C cannot be exceeded.

IP65 protection rating:

This fixture is protected against dust (first digit 6) and against low pressure jets of water from all directions (second digit 5).

Prevention from electrical shock:

Make sure to ground (earth) the fixture electrically. It's essential to connect the yellow/green conductor to earth.

Main Connection:

- Do not apply any AC mains power to the fixture at any other voltage than that specified.
- Never let the eventCON[®] cable comes into contact with other cables. Treat the eventCON[®] cable and all connections with the mains with particular caution.
- Make sure the eventCON[®] cable is never crimped or damaged by sharp edges.

Rigging:

- Check that all external covers and rigging hardware are securely fastened.
- When choosing the installation-location, please make sure that the fixture is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others.
- Make sure that the area below the installation place is cordoned off when rigging, de-rigging or servicing the fixture.
- If suspending from a rigging structure, fasten the fixture to rigging clamps with an M10 bolt screwed into the threaded hole in the left & right side of the base of the fixture. The bolt must be screwed at least 20-26mm (0.8-1.0ins.) into the fixture. If the fixture is suspended by any other method, an M10 bolt must be screwed into this hole so that it is at least 20-26mm(0.8-1.0ins.) into the fixture.
- Install as described in this manual a secondary attachment such as a safety wire that is approved by an official body. The safety wire must comply with EN 60598-2-17 Section 17.6.6 and be capable of bearing a static suspended load ten times the weight of the fixture.

Exterior surface temperature:

The exterior of this fixture can reach an untouchable temperature during operation. Avoid contact by persons and materials.

Main Connection:

- This fixture is for professional use only. It is not for household use.
- Always unplug the mains for any maintenance.

Risk of eye injury:

Do not stare directly into the light when it is switched on. (Do not look at LEDs with magnifying glasses, telescopes, binoculars, or similar optical instruments that may concentrate the light output.

Fixture Dimensions

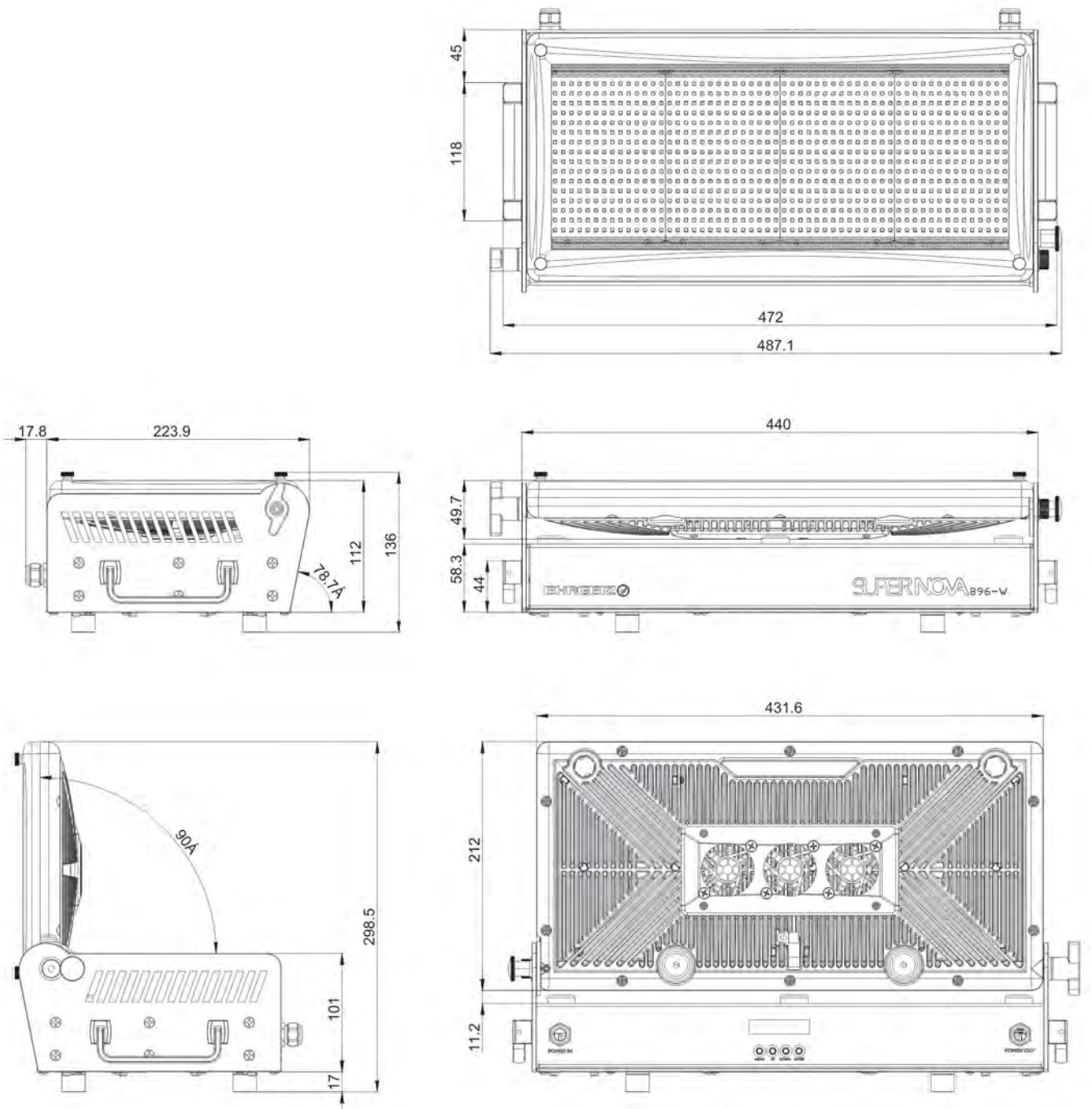
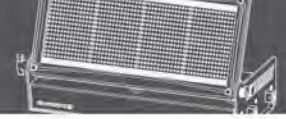


Figure 1



Rigging

The fixture can be placed directly on the stage floor or can be rigged on the structure via two clamps in the following positions:

Sitting on floor with indexed tilt mechanism



Figure 2

Standing on floor directly

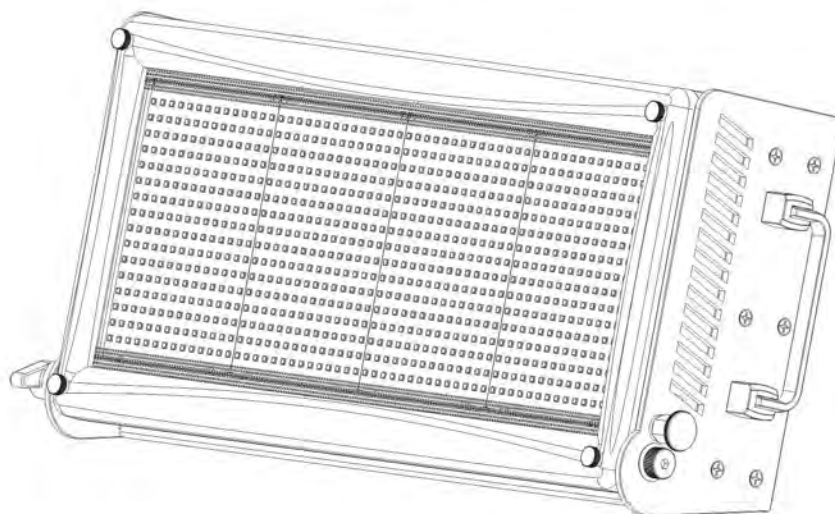


Figure 3

When hanging onto a truss.

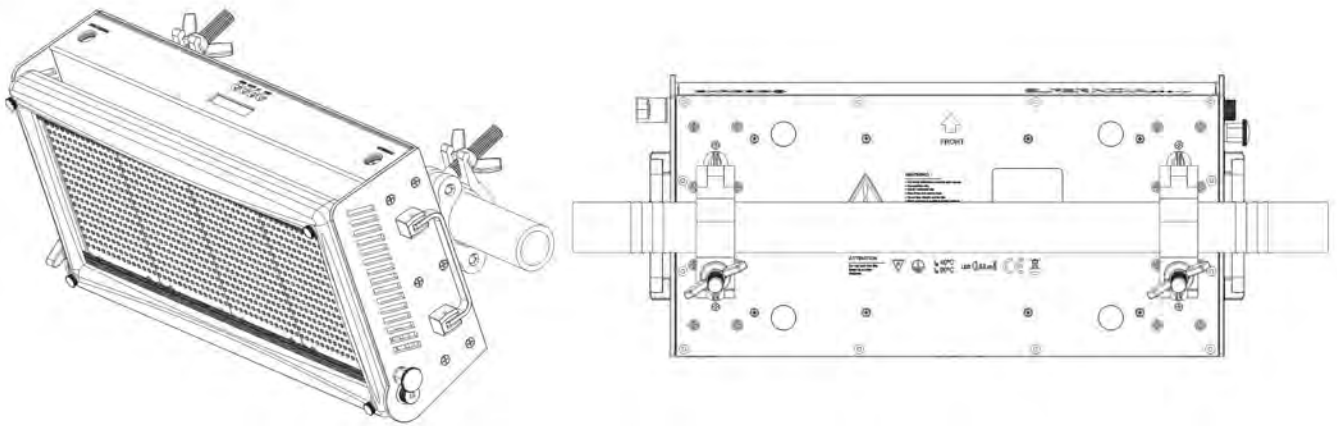
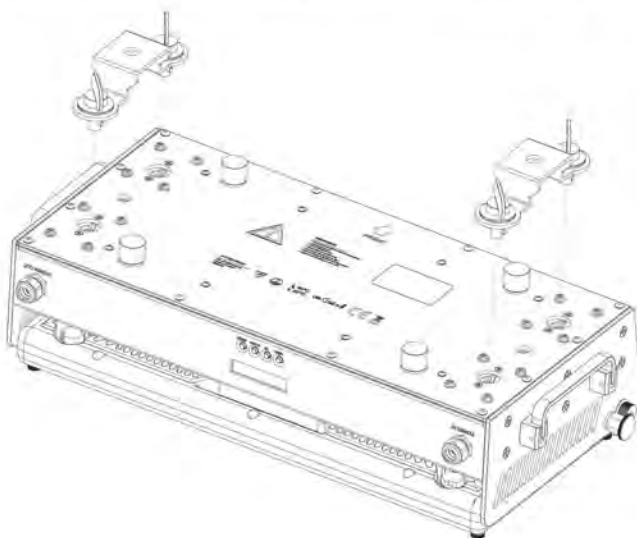


Figure 4

The mounting holes in Nova / Supernova use M10 thread. Use the clamps with M10 bolts only.
When mounting on truss or structure, be sure to use a mounting clamp and secondary secure attachment.
(as above figure)
Secure fixture with safety wire in the back of the fixture.

Installation with Omega Bracket Mounting Kit with fast lock (Optional):

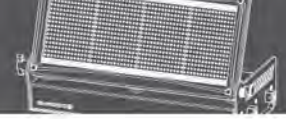


Omega Bracket

1/4th Fast Lock

Use the Omega Bracket Mounting Kit for Nova / Supernova (item No.: 106599) to mount with the 4 pre-fabricated 1/4th turn mounting inserts for a even more faster & easier installation of fixture trussing.

Figure 5



DMX512 Connection:

Connect the DMX512 controller to the units in series.

Each unit has 6 DMX channels*1 so the DMX Addresses should increase by increments of 6 (e.g. 1, 7, 13...)

Each DMX Address may be used as many times as required.
Any DMX address in the range from 001 to 512 may be used.

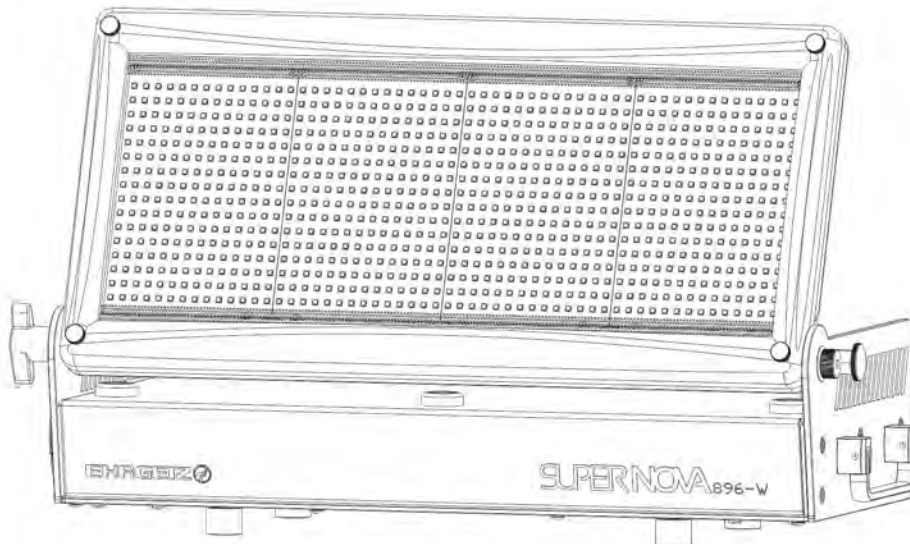
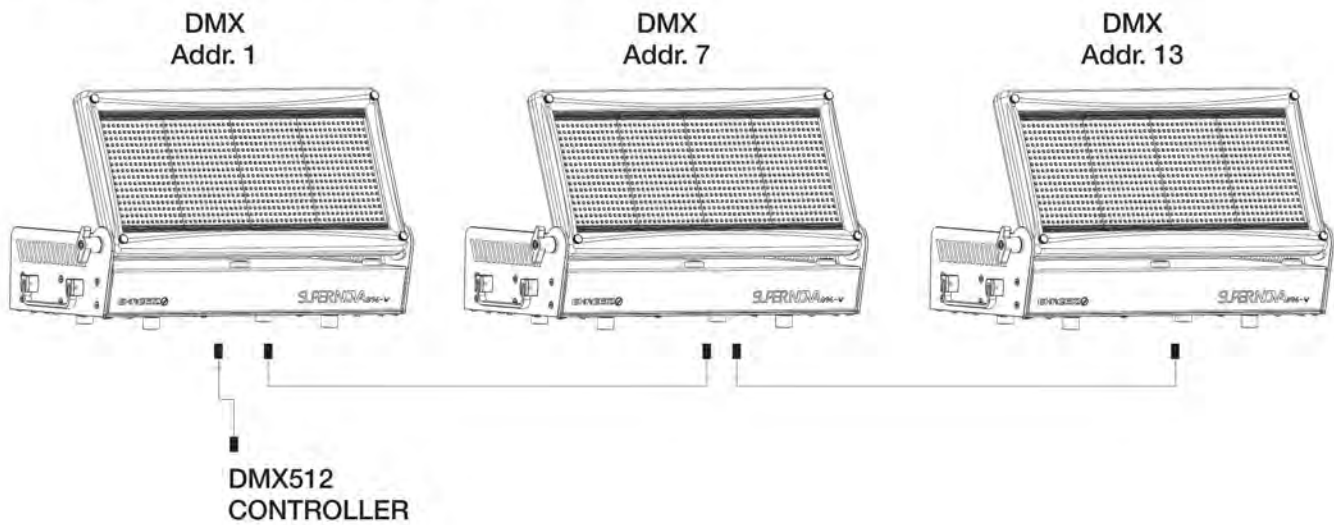


Figure 6

*1 6 DMX channels refer to the standard DMX mode, other DMX modes are also available. Always set the increments according to the DMX modes and channels selected.

eventCON[®] Power+Data connector system:

The Nova / Supernova fixtures are equipped with revolutionary eventCON[®] connector & to combine Power and Data into 1 connector and cable system. eventCON[®] system is consisted of the following:

1. eventCON[®] Power+Data IN connector (see figure 1)
2. eventCON[®] Power+Data OUT connector (see figure 2)
3. eventCON[®] Power+Data cable (see figure 3)

CAUTION!!

Only qualified electrician shall wire / solder these eventCON[®] system connector and cables. Contact your local distributor for more information if necessary.

Figure 1. eventCON[®] Power+Data IN connector:

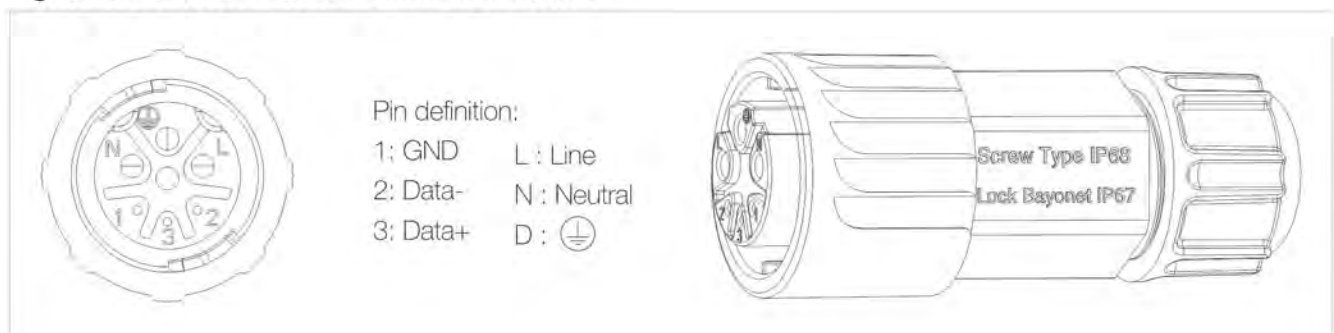


Figure 2. eventCON[®] Power+Data OUT connector:

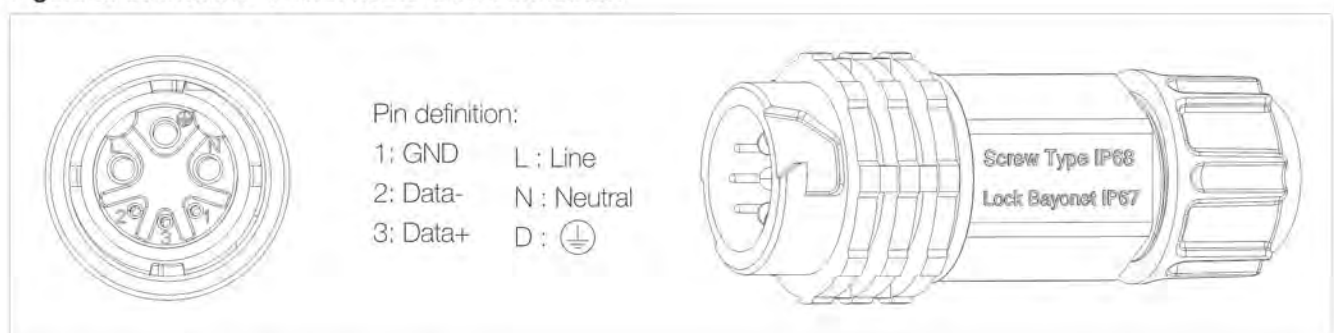
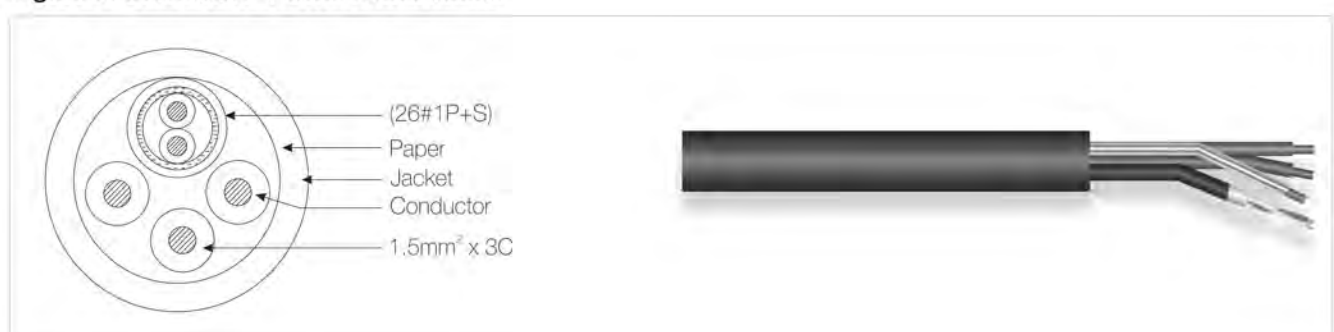
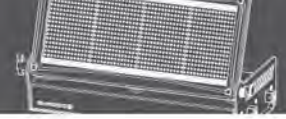


Figure 3. eventCON[®] Power+Data cable:





eventCON[®] system connection merging:

Connecting the first eventCON[®] system to a mains power and DMX source with Input Splitter eventCON[®] PD1F/XLR-3/Schuko (Part No. 105486):

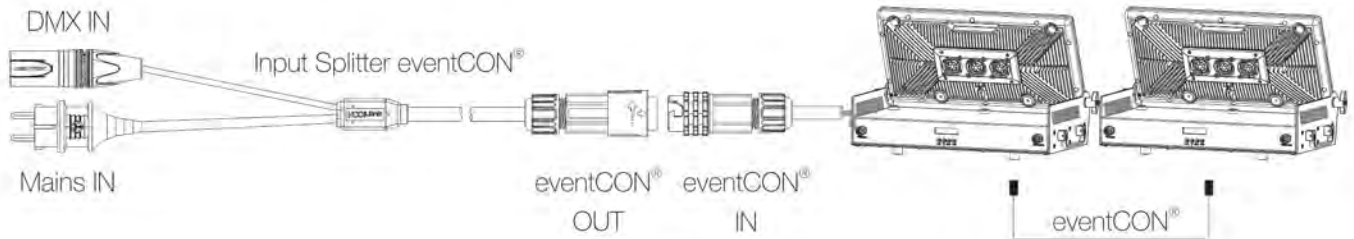


Figure 7

Connecting between eventCON[®] systems:

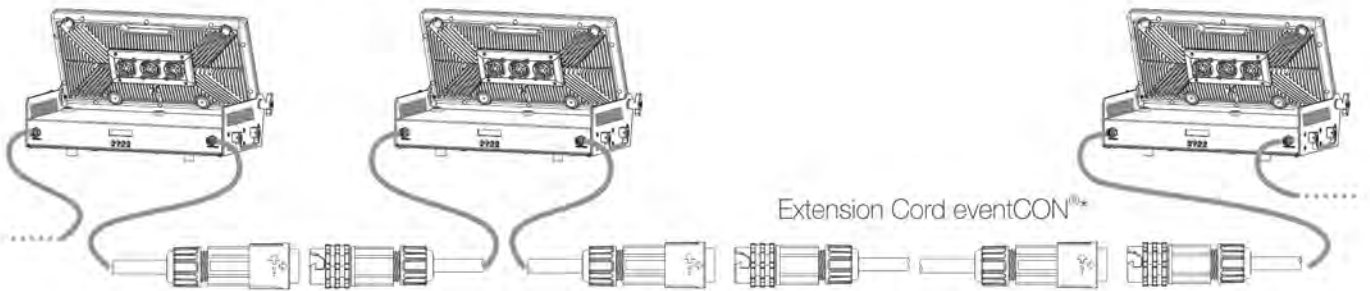
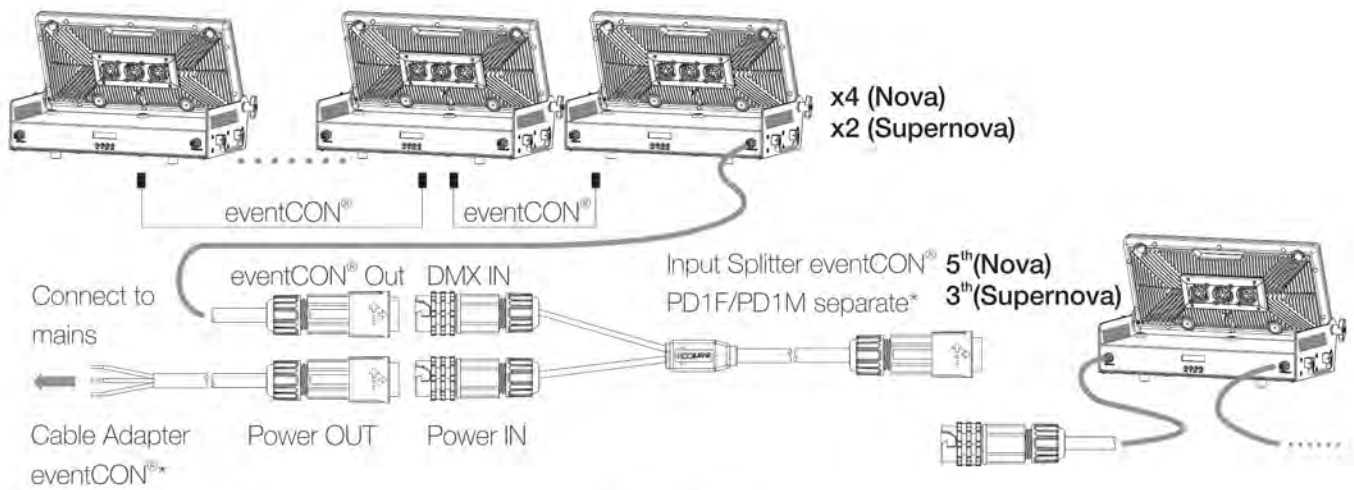


Figure 8

Connecting between eventCON[®] systems with new mains power: for every of 5th Nova/ 3th Supernova must apply a new mains power connection. Use Cable Adapter eventCON[®] (Part NO. 106298/106299) to re-connect to a mains power whenever necessary, thus merge the DMX signal from last fixture in Daisy-Chain to get DMX through with Input Splitter eventCON[®] PD1F/PD1M Separate (Part No. 105488)



"*" Denotes Optional

Figure 9

eventCON[®] system connection splitting:

Splitting power and DMX data from eventCON[®] system to power & standard 3-Pin XLR connector with Output Splitter eventCON[®] PD1M/XLR-3 / Open* (Part No. 105487):

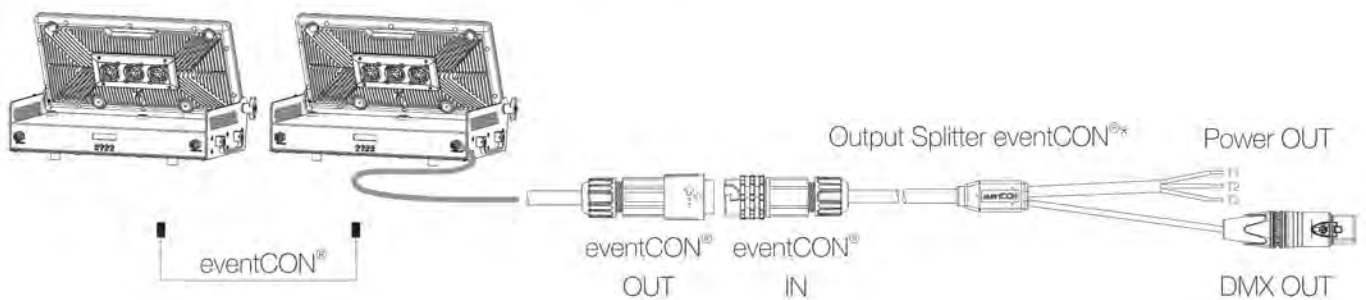


Figure 10

Splitting Power from eventCON[®] system to other fixture with Cable Adapter eventCON[®] / Open Power OUT* (Part No. 106300 / 106301):

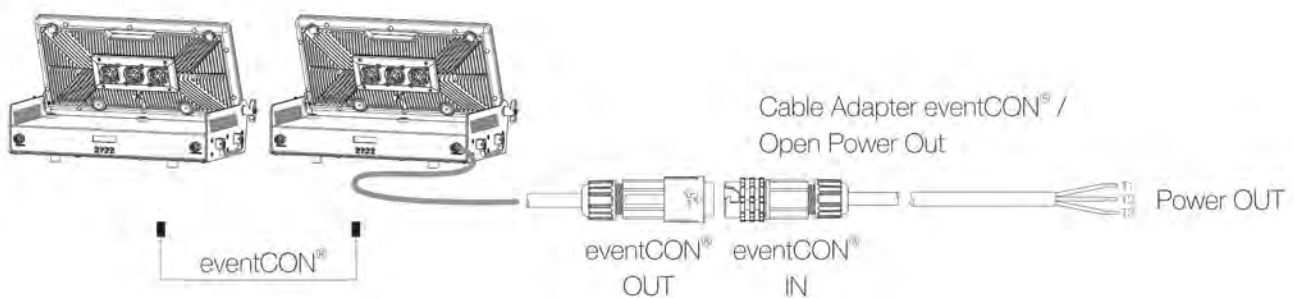
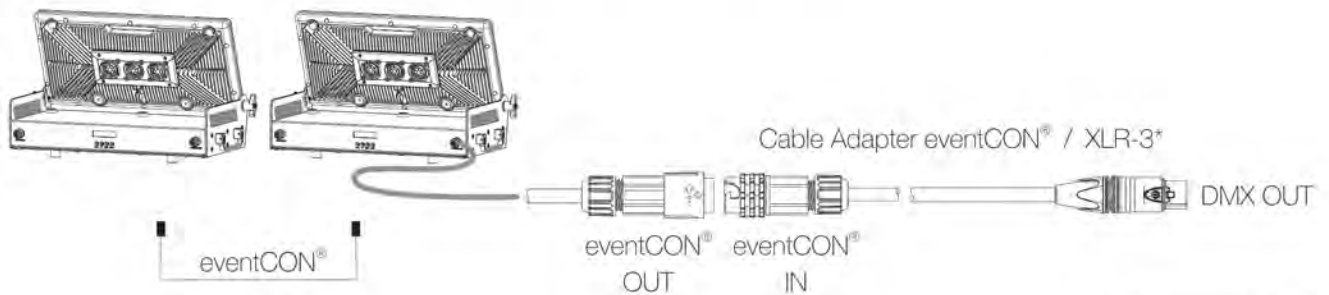


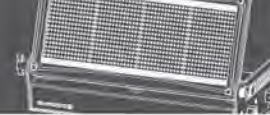
Figure 11

Splitting DMX from eventCON[®] system to other fixture with Cable Adapter eventCON[®] / XLR-3* (Part No. 106302 / 106303):

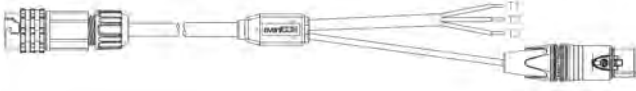

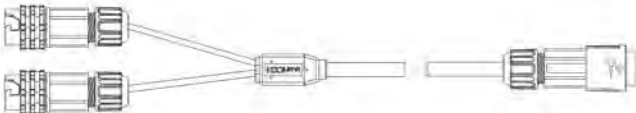





“*” Denotes Optional

Figure 12



eventCON[®] Optional cable systems:

| Description | Part Number | | Picture |
|---|-------------|--------|--|
| Output Splitter eventCON [®] PD1M / XLR-3 / Open (eventCON [®] to XLR & Power) | 0,4M | 105487 |  |
| Extension Cord eventCON [®] PD1 (eventCON [®] IN to OUT) | 1M | 105482 |  |
| | 2M | 105483 | |
| | 5M | 105484 | |
| | 10M | 105485 | |
| Input Splitter eventCON [®] PD1F / PD1M Separate (2 eventCON [®] IN to eventCON [®] OUT) | 0,4M | 105488 |  |
| Cable Adapter eventCON [®] (Open-end to eventCON [®] IN) | 2M | 106298 |  |
| | 5M | 106299 | |
| Cable Adapter eventCON [®] / Open Power Out (eventCON [®] IN to Power open) | 2M | 106300 |  |
| | 5M | 106301 | |
| Cable Adapter eventCON [®] / XLR-3 DMX OUT (eventCON [®] IN to DMX OUT) | 2M | 106302 |  |
| | 5M | 106303 | |

Operating the fixture

Front View

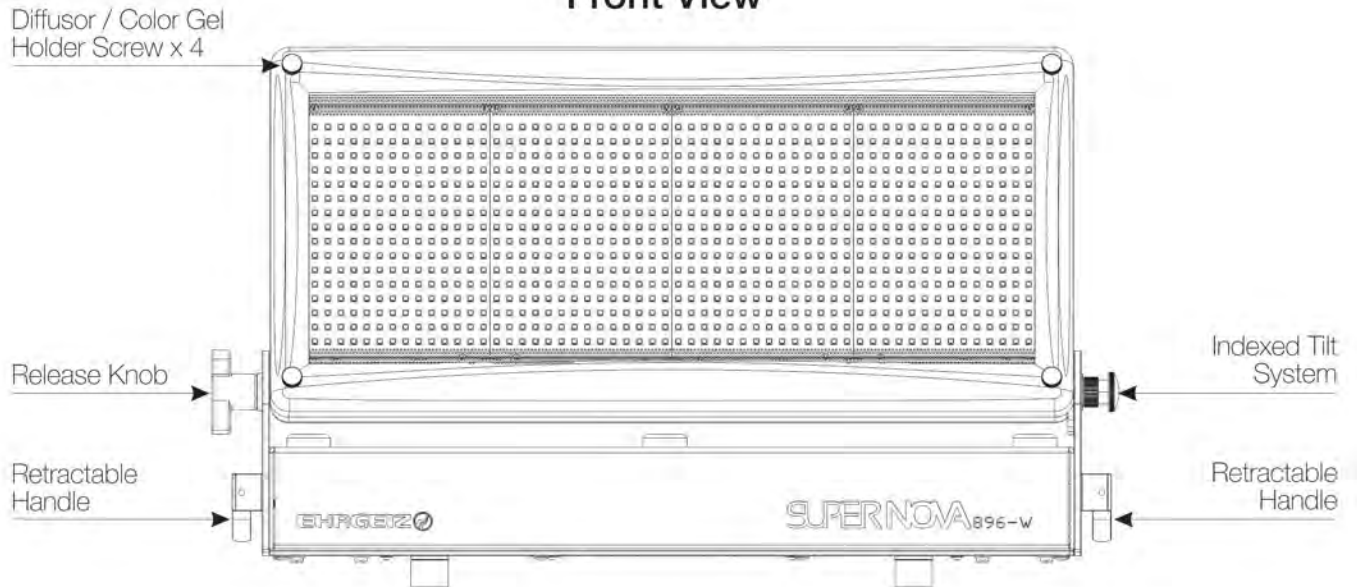


Figure 13

Rear View

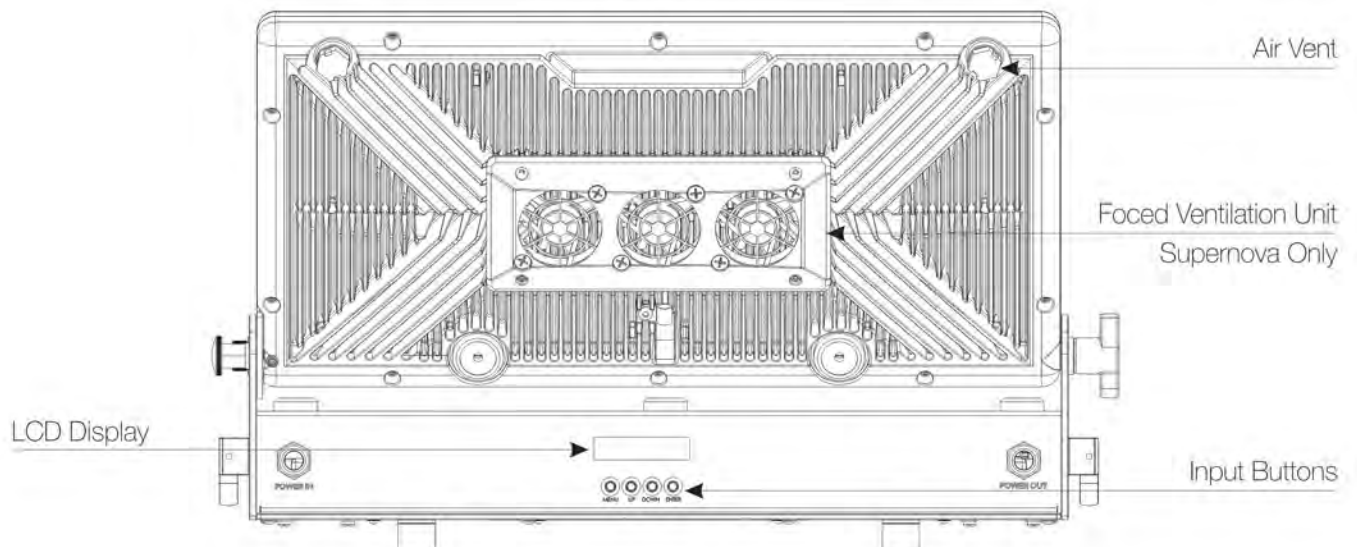
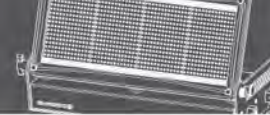


Figure 14



Operating the fixture

To adjust the fixture panel for different angle by using indexed tilt system:

1. Release the release knob by rotating it counter-clockwise.

Rotate counter-clockwise to release

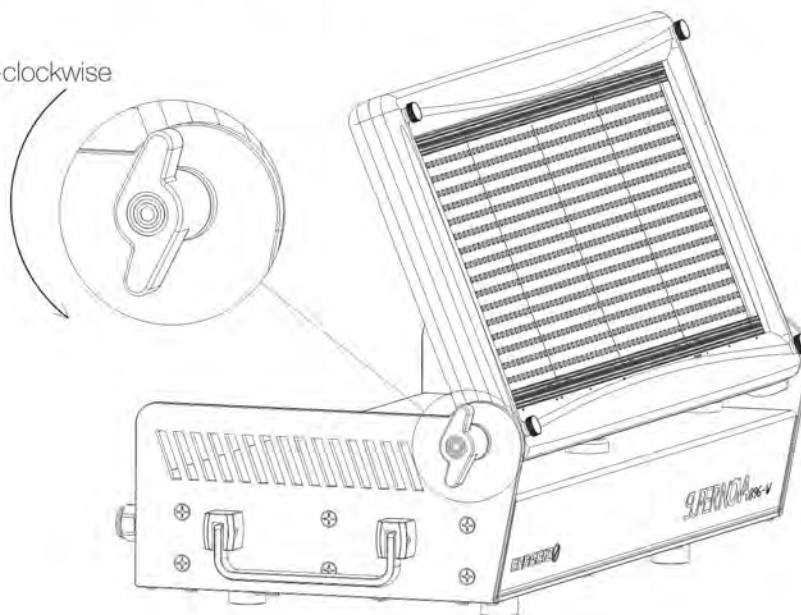


Figure 15

2. Pull the index plunger to release from current angle, and adjust the front panel to other indexed angle.

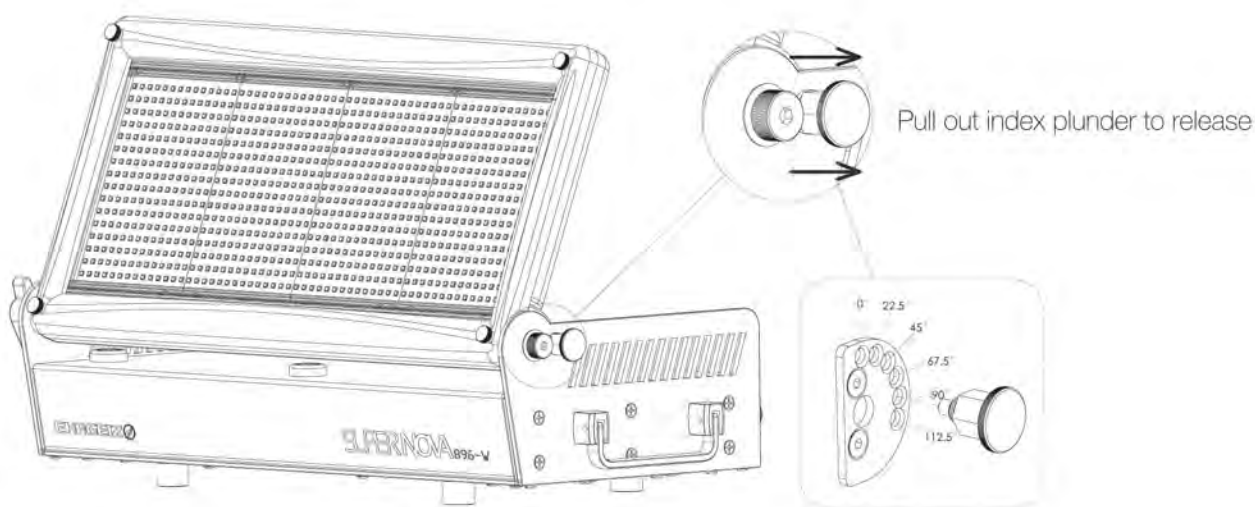


Figure 16

3. Set plunger to inserted status, and fasten the release knob clockwise.

LED Segment Control

Nova / Supernova fixtures are built with multiple LED segments to utilize a creative way of lighting controls for different effects. Refer to the following for segment arrangements accordingly.

Nova is built with 4 segments of LEDs as the following layout:

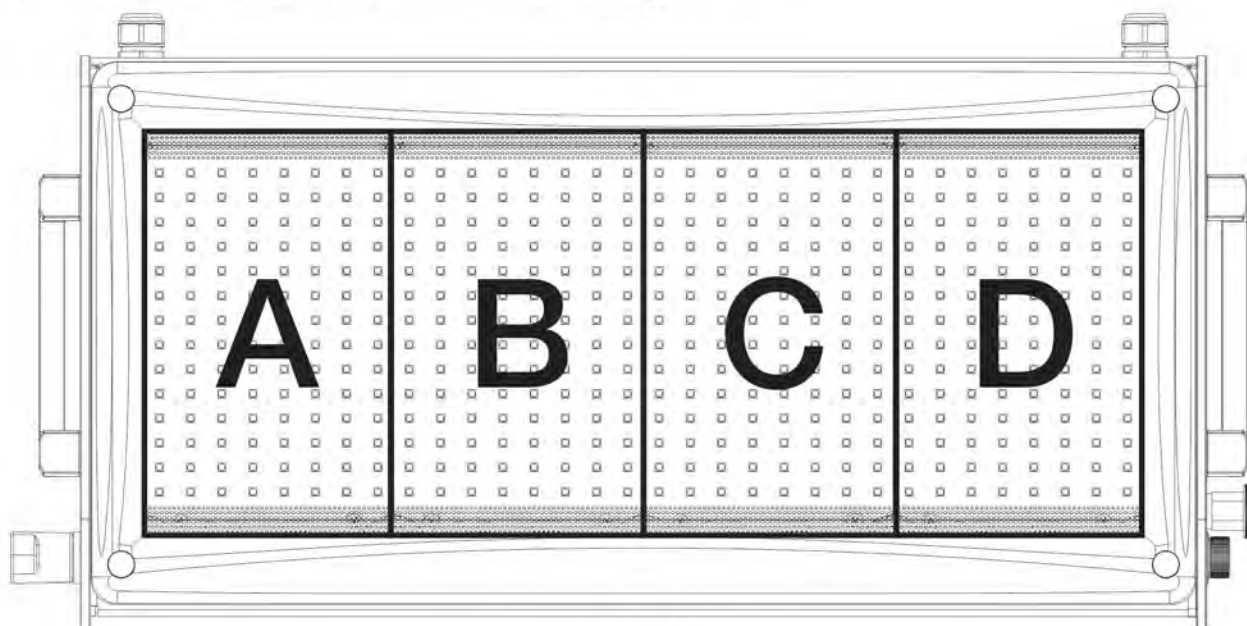


Figure 17

Supernova is built with 8 segments of LEDs as the following layout:

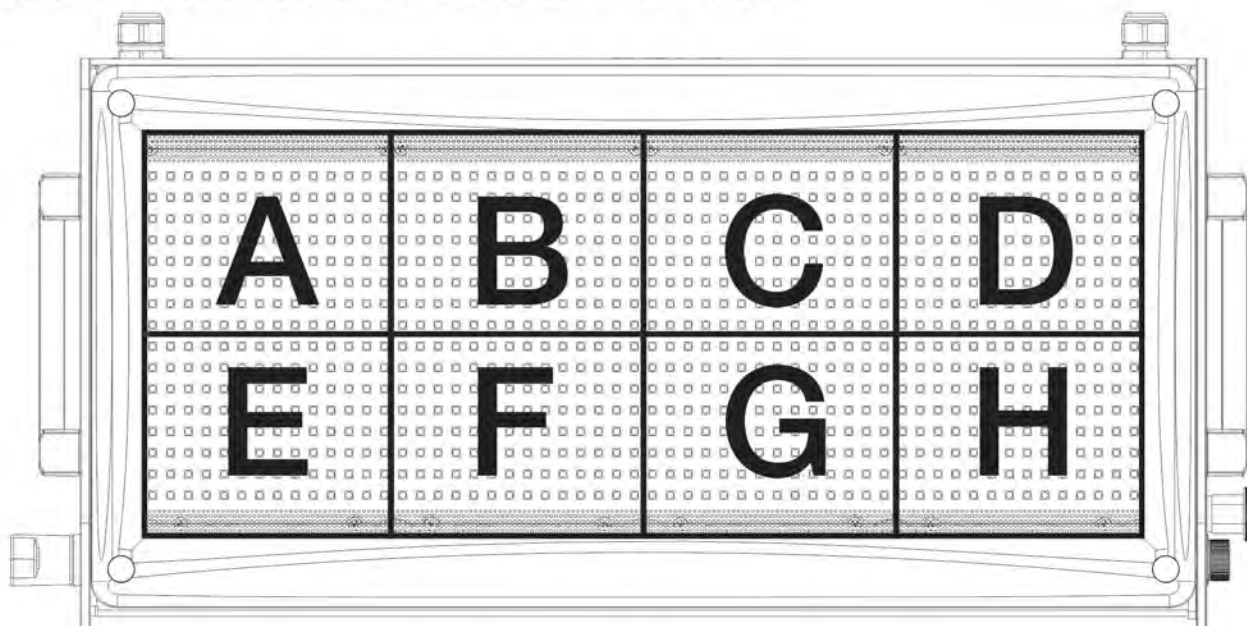
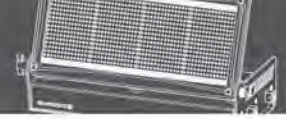
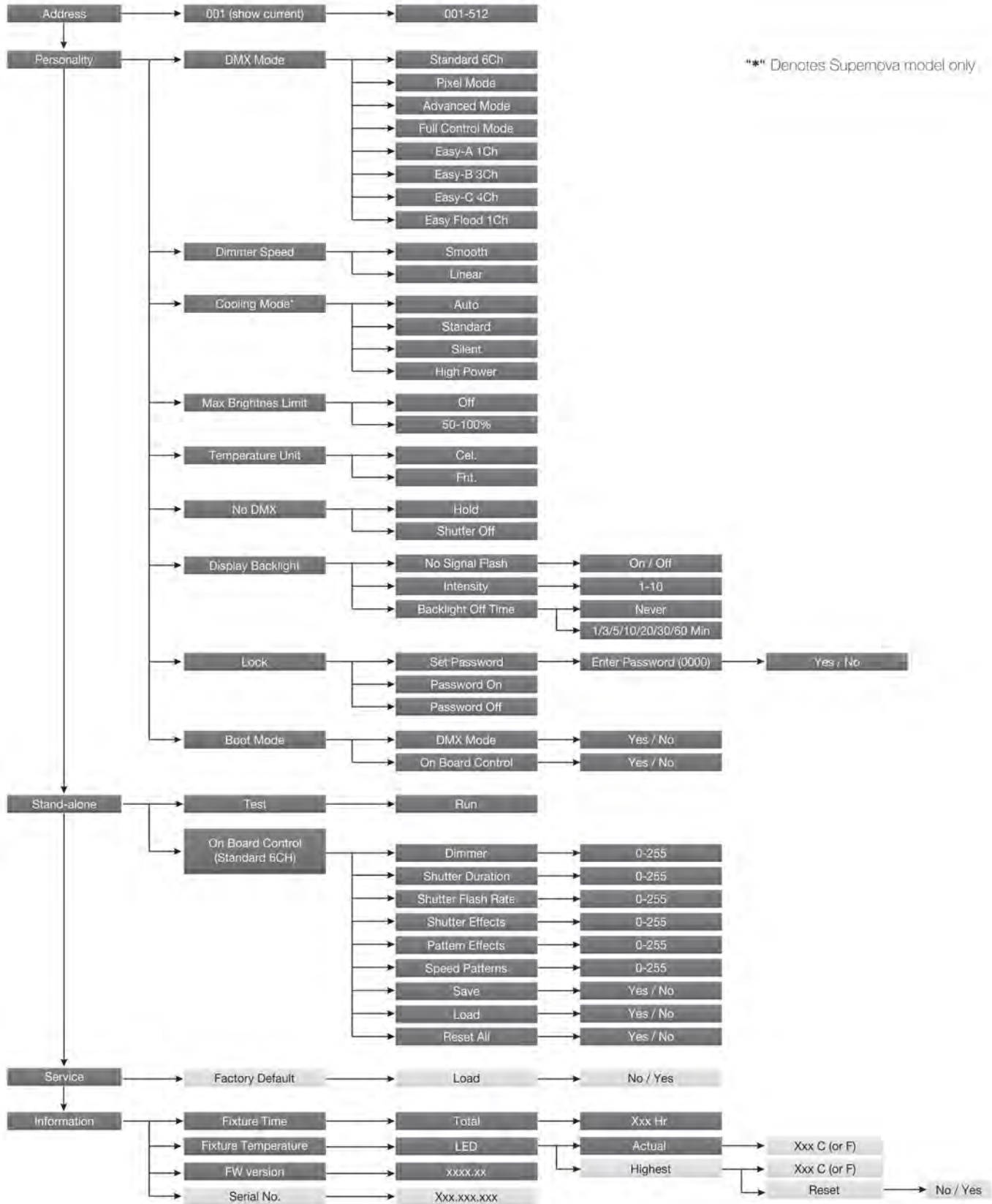


Figure 18



Menu Navigation

Control Navigation



Operating the fixture in menu navigation for fixture settings:

The Nova / Supernova fixtures are programmed with many built-in functions as well as different personalities to choose for different applications. Read through the following menu navigation instruction properly before setting up the fixture in different desired personality or as simple as DMX address from the menu navigation system.

To navigate inside the fixture menu, use the following buttons on the back of the fixture for the following function:

- [MENU]** Go back to previous menu for 1 level backward.
- [UP]** Select the option to previous one.
- [DOWN]** Select the option to next one.
- [ENTER]** Confirm the option or go to next level menu.

When navigating in the Level 3 and further levels, there are in most scenarios, with various options to choose from. For any of the options you chose will be displayed in the first order when you access this particular level menu. See the following figure 19 for example.

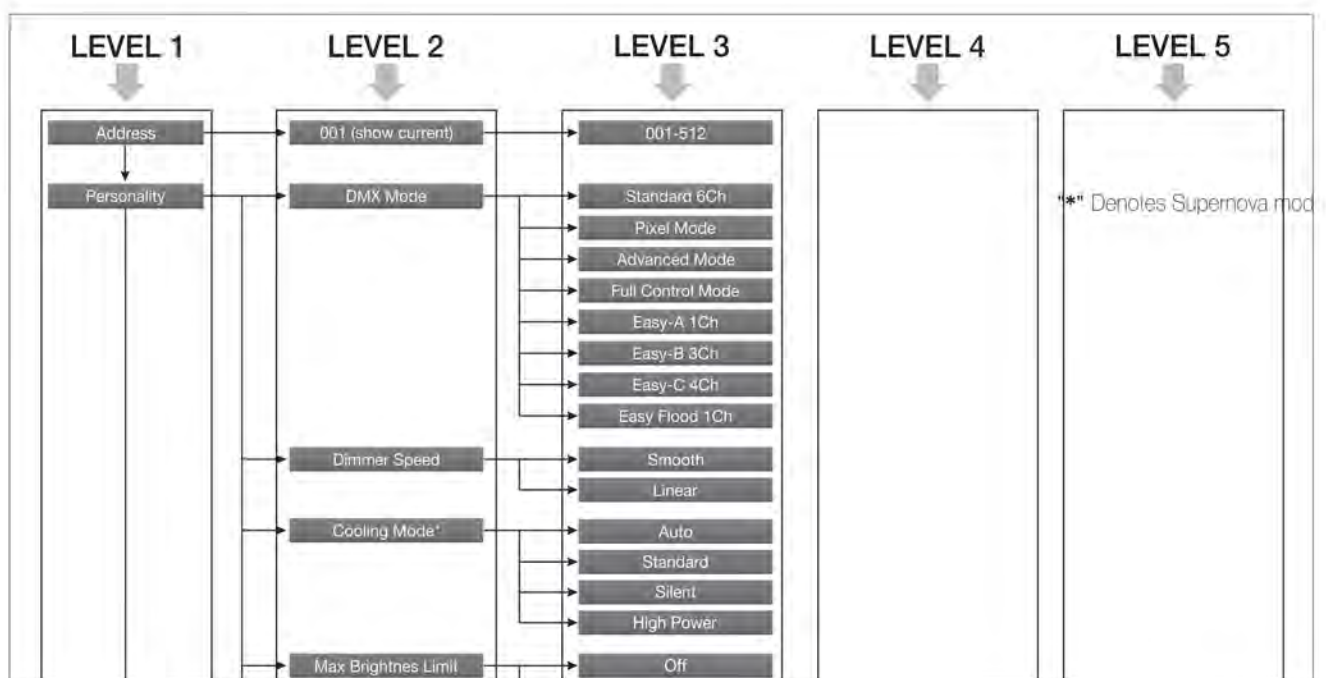
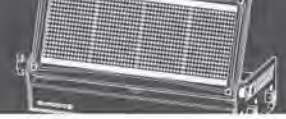


Figure 19 Menu example

To make a change to a new value, press "ENTER" and the options you're at will now be "Blinking" status in the LCD display, use "UP" or "DOWN" button to choose a new value and press "ENTER" again and the option set will now be displayed consistently instead of blinking state. However, if you entered the option with in a blinking status and do not wish to set change to any value other than your previous one, press "MENU" will discard any changes not yet set to the fixture (display blinking), and go back to previously selected option with constantly lit LCD display.

Note: Fixture menu marked in grey background indicates the "Default" fixture settings.



Fixture menu navigations:

1. DMX Address: Set the DMX address of the fixture from 001 ~ 512 depending on the DMX Mode selected.
2. Personality: This is where you set up all the fixture personality settings in the following:

2.1 : DMX Mode: Set the DMX from the following:

- "Standard" : 6 Channel standard control mode with most effects included.
- "Advanced" : 8 Channel (Nova) or 12 Channel (Supernova) extended control mode with segment controls.
- "Pixel" : 4 Channel (Nova) or 8 Channel (Supernova) control mode with each segment controls as single dimmer.
- "Full Control" : 10 Channel (Nova) or 18 Channel (Supernova) full control mode with each segment controls with Dimmer & Flash Rate.
- "Easy-A" : 1 Channel control mode.
- "Easy-B" : 3 Channel control mode in Dimmer / Duration / Flash Rate.
- "Easy-C" : 4 Channel control mode in Dimmer / Duration / Flash Rate / Shutter Effect.
- "Easy Flood" : 1 Channel control mode as single Dimmer.

2.2 Dimmer Speed Setting: Set the dimming curve between the following:

- Smooth
- Linear

2.3 Cooling Mode: Set the fixture with different cooling mode by different fan speed (Supernova only).

- Auto
- Standard
- Silent
- High Power

2.4 Max Brightness Limit: Limit the maximum brightness in the following percentage if the fixture is being used in a smaller venue or does not require that much brightness.

- Off
- 50-100%

2.5 Temperature Unit: Set the temperature display unit in the following:

- Celsius
- Fahrenheit

2.6 No DMX: Set up the behavior when the DMX signal is removed or interrupted after 3 seconds:

- Hold: Fixture will keep the last value received.
- Shutter Off: Fixture will close the shutter off thus only cut off the light output.

2.7 Display Backlight: Set the LCD display backlight with the following parameter:

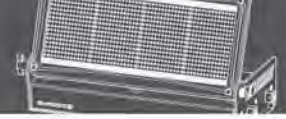
2.7.1 No Signal Flash:

- On: Backlight will flash when No DMX signal is received.
- Off: Backlight will NOT flash no matter DMX signal is received or not.

2.7.2 Intensity: Set the backlight brightness between 1-10

2.7.3 Backlight Off Time: Set the timeout that display backlight shall be dimmed down when not operating the fixture menu:

- Never: Display backlight will be always on.
- 1 Minute
- 3 Minutes
- 5 Minutes
- 10 Minutes
- 20 Minutes
- 30 Minutes
- 60 Minutes



Fixture menu navigations:

2.8 Lock: Set the fixture with or without password protection against unauthorized access to the fixture settings. Fixture set with Lock will go into lock mode as soon as the display backlight is dimmed off. On any press of the button will wake up the display backlight and then request a correct 4-digit password to grant access to the menu.

- Set Password: Set a new 4-digit password to the fixture. Press enter to go to next level then use "UP" and "DOWN" button to select from 0-9. Press "ENTER" button again to set up the next digit one by one until all 4 digit are set.
- Password On: Enable the password protection, (You must set the 4-digit password first.)
- Password Off: Disable the password protection, upon any press on the input buttons, you can access to all the menu settings without password protection.

IMPORTANT: If you set the display "Backlight Off Time" to "Never", the fixture will never goes to "Sleep Mode" and thus the Lock function won't be effective.

2.9 Boot mode: Set the fixture to boot directly into selected mode as the following:

- DMX: Controlled via DMX data from console.
- On Board Control: Load the previously saved value from "Stand-Alone / On Board Control / Save",

3. Stand-Alone: Using the built-in functions to perform lighting without the need of lighting console or DMX controllers.

3.1 Test Mode: Press "ENTER" in the test mode and select "Run" to perform a fixture self-testing program to examine if there are any malfunctioning of LEDs.

3.2 On-Board Controls: Use the fixture with built-in controls with the following, use “UP” and “DOWN” buttons to select in between, then again use “UP” and “DOWN” to set the desired value.

- Dimmer
- Shutter Duration
- Shutter Flash Rate
- Shutter Effects
- Pattern Effects
- Speed Patterns
- Save: Save current values into memory for OBD boot mode, or saving it as a static cue.
- Load: Load previously saved value in the memory.

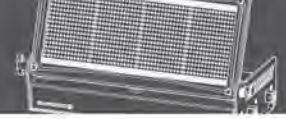
4. Fixture Service Menu:

4.1 Factory Default: Use default function to restore any previous changes set in the menu. Choose “Load” with ENTER and select “Yes” to confirm restoring back to default values.

5. Fixture Information: Use the “Information” function to read the fixture status for the following:

5.1 Fixture Time:

- Total: The total fixture running time since fixture is powered on. Unit displays in hour format.



Fixture menu navigations:

5.2 Fixture Temperature: Displays the temperature on the sensor board measured, will be displayed in Celsius or Fahrenheit according to your setting in temperature unit preference in fixture Personality.

5.2.1 Actual: Indicates the current temperature measured.

5.2.2 Highest: Indicates the highest temperature measured. Use UP and DOWN button to select "Reset" to clear current highest temperature record.

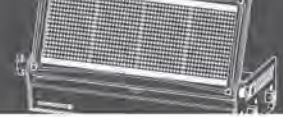
5.3 Firmware Version: Displays the current software build version.

5.4 Serial No.: Displays the serial number of the fixture.

DMX Control Modes

Mode Standard

| Channel No | Value | Function |
|------------|--|---|
| 1 | 0 - 5 6 - 255 | Dimmer 0 - 100% Blackout 0 - 100% |
| 2 | 0 - 5 6 - 250 251 - 255 | Shutter Duration Default Duration set to 50ms when strobing and constant on when only dimming Duration short to long pulse Blinder Mode ON (max brightness when flooding) |
| 3 | 0 - 5 6 - 10 11 - 250 251 - 255 | Shutter Flash Rate No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 4 | 0 - 255 | Shutter Effects (similar to Hellos, but without the constant strobe, only the random patterns) |
| 5 | 0 - 255 | Pattern effects (See Patter Effects table in Appendix) |
| 6 | 0 - 255 | Speed Patterns (Slow to Fast) |



Mode Advanced

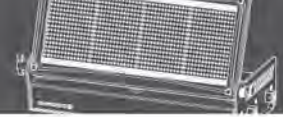
| Channel No | Value | Function |
|------------|--|---|
| 1 | 0 - 5 6 - 255 | Master Dimmer 0 - 100% Blackout 0 – 100% |
| 2 | 0 - 5 6 - 250 251 - 255 | Shutter Duration Default Duration set to 50ms when strobing and constant on when only dimming Duration short to long pulse Blinder Mode ON (max brightness when flooding) |
| 3 | 0 - 5 6 - 10 11 - 250 251 - 255 | Shutter Flash Rate No Flash / Blackout Single Flash 0,5 – 25 Hz Open |
| 4 | 0 - 255 | Shutter Effects (similar to Helios, but without the constant strobe, only the random patterns) |
| 5 | 0 - 5 6 - 255 | LED Segment 1 Dimmer Blackout 0 – 100% |
| 6 | 0 - 5 6 - 255 | LED Segment 2 Dimmer Blackout 0 – 100% |
| 7 | 0 - 5 6 - 255 | LED Segment 3 Dimmer Blackout 0 – 100% |
| 8 | 0 - 5 6 - 255 | LED Segment 4 Dimmer Blackout 0 – 100% |
| 9* | 0 - 5 6 - 255 | LED Segment 5 Dimmer* Blackout 0 – 100% |
| 10* | 0 - 5 6 - 255 | LED Segment 6 Dimmer* Blackout 0 – 100% |
| 11* | 0 - 5 6 - 255 | LED Segment 7 Dimmer* Blackout 0 – 100% |
| 12* | 0 - 5 6 - 255 | LED Segment 8 Dimmer* Blackout 0 – 100% |

* Denotes only available for Supernova model.

Mode Pixel

| Channel No | Value | Function |
|------------|------------------|---|
| 1 | 0 - 5 6 - 255 | LED Segment 1 Dimmer Blackout 0 - 100% |
| 2 | 0 - 5 6 - 255 | LED Segment 2 Dimmer Blackout 0 - 100% |
| 3 | 0 - 5 6 - 255 | LED Segment 3 Dimmer Blackout 0 - 100% |
| 4 | 0 - 5 6 - 255 | LED Segment 4 Dimmer Blackout 0 - 100% |
| 5* | 0 - 5 6 - 255 | LED Segment 5 Dimmer* Blackout 0 - 100% |
| 6* | 0 - 5 6 - 255 | LED Segment 6 Dimmer* Blackout 0 - 100% |
| 7* | 0 - 5 6 - 255 | LED Segment 7 Dimmer* Blackout 0 - 100% |
| 8* | 0 - 5 6 - 255 | LED Segment 8 Dimmer* Blackout 0 - 100% |

* Denotes only available for Supernova model.



Mode Full Control

| Channel No | Value | Function |
|------------|--|---|
| 1 | 0 - 5 6 - 255 | Master Dimmer 0 - 100% Blackout 0 - 100% |
| 2 | 0 - 5 6 - 250 251 - 255 | Shutter Duration Default Duration set to 50ms when strobing and constant on when only dimming Duration short to long pulse Blinder Mode ON (max brightness when flooding) |
| 3 | 0 - 5 6 - 255 | LED Segment 1 Dimmer Blackout 0 - 100% |
| 4 | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 1 Shutter Flash Rate No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 5 | 0 - 5 6 - 255 | LED Segment 2 Dimmer Blackout 0 - 100% |
| 6 | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 2 Shutter Flash Rate No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 7 | 0 - 5 6 - 255 | LED Segment 3 Dimmer Blackout 0 - 100% |
| 8 | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 3 Shutter Flash Rate No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 9 | 0 - 5 6 - 255 | LED Segment 4 Dimmer Blackout 0 - 100% |

| Channel No | Value | Function |
|------------|--|--|
| 10 | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 4 Shutter Flash Rate No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 11* | 0 - 5 6 - 255 | LED Segment 5 Dimmer* Blackout 0 - 100% |
| 12* | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 5 Shutter Flash Rate* No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 13* | 0 - 5 6 - 255 | LED Segment 6 Dimmer* Blackout 0 - 100% |
| 14* | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 6 Shutter Flash Rate* No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 15* | 0 - 5 6 - 255 | LED Segment 7 Dimmer* Blackout 0 - 100% |
| 16* | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 7 Shutter Flash Rate* No Flash / Blackout Single Flash 0,5 - 25 Hz Open |
| 17* | 0 - 5 6 - 255 | LED Segment 8 Dimmer* Blackout 0 - 100% |
| 18* | 0 - 5 6 - 10 11 - 250 251 - 255 | LED Segment 8 Shutter Flash Rate* No Flash / Blackout Single Flash 0,5 - 25 Hz Open |

* Denotes only available for Supernova model.

Easy Mode A

| Channel No | Value | Function |
|------------|-------------------------------|--|
| 1 | 0 - 5 6 - 250 251 - 255 | Dimmer / Shutter Blackout Flash Rate 0,5 - 50 Hz Blinder effect full on |

Easy Mode B

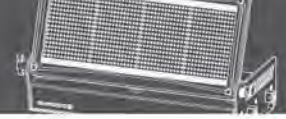
| Channel No | Value | Function |
|------------|------------------|---|
| 1 | 0 - 5 6 - 255 | Dimmer Blackout 0 - 100% |
| 2 | 0 - 255 | Shutter Duration Duration 0 - 650ms |
| 3 | 0 - 5 6 - 255 | Shutter Flash Rate Single Flash 0,5 - 50 Hz |

Easy Mode C

| Channel No | Value | Function |
|------------|---|--|
| 1 | 0 - 5 6 - 255 | Dimmer Blackout 0 - 100% |
| 2 | 0 - 255 | Shutter Duration Duration 0 - 650ms |
| 3 | 0 - 5 6 - 255 | Shutter Flash Rate Single Flash 0,5 - 50 Hz |
| 4 | 0 - 5 6 - 42 43 - 85 86 - 128 129 - 171 172 - 214 215 - 255 | Shutter Effects No Effect Ramp up Ramp down Ramp up/down Random Thunderstorm Single Flash |

Easy Mode Flood

| Channel No | Value | Function |
|------------|------------------|--------------------------------|
| 1 | 0 - 5 6 - 255 | Dimmer Blackout 0 - 100% |



Technical Specification

Light source

- 448(Nova) / 896(Supernova) x 1.5 Watt Class white Osram® LED
- CRI min. 80
- Rated lumen output: 40.000 lm (Nova) / 80.000 lm (Supernova)
- High Efficiency with typ. 104 lm/W
- LED life expectancy: approx. 50.000 hours

Optical system

- Beam angle 120°

Functions

- High resolution dimmer 0-100%
- Selectable dimmer curves
- Strobe with variable speed (max. 25Hz)
- Pre-programmed random strobe & pulse effects
- Flood mode
- Blinder mode
- 4(Nova) / 8(Supernova) controllable LED zones
- Pattern effects

Thermal

- Maximum ambient temperature: 45° C (113° F)
- Intelligent fan module

Control and programming

- Setting & addressing: 2x16 characters LC display & 4 buttons
- Protocol: USITT DMX-512
- Control channels: 1, 3, 4, 6, 8, 10(Nova) / 1, 3, 4, 6, 8, 11, 18(Supernova)
- 8 DMX protocol modes
- Stand-alone mode
- Firmware update via DMX-line
- DMX In/Out: eventCon®
- Power In/Out: eventCon®

Electrical Specification

- Electronic switching power supply with auto-sensing
- Input voltage: 100-240V AC, 50/60 Hz
- Max. power consumption: 450W(Nova) / 900W(Supernova)

Mechanical Specification

- Ip65 rating
- Height (LED module up): 300 mm (11.8")
- Height (LED module down): 126 mm (4.96")
- Width: 488 mm (19.21")
- Depth: 242 mm (9.53")
- Weight: 9.5 kg / 20.94 lb (Nova) 10.5 kg / 23.15 lb- (Supernova)

Rigging

- Two M10 inserts
- Four 1/4th turn mounting inserts for two omega brackets
- Two attachment points for safety wire (handles)

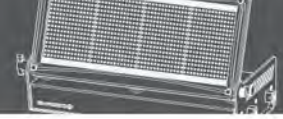
Included accessories

- Cable merger eventCon/Schuko + XLR-3

Trouble Shooting

| Problems | Causes | Solutions |
|---|---|---|
| No Display / Not switched on | No power to fixture | Check AC mains power and connections. |
| | | Inspect connections and cables. Correct poor connections. Repair or replace damaged cables. |
| | | Check the power supply voltage. |
| Fixture does not respond to DMX correctly | Incorrect fixture DMX addressing | Check if the fixture is assigned to correct DMX address. (See Page16) |
| | Incorrect DMX mode | Check fixture is set to correct DMX mode. (See Page 16) |
| | Fault on data link | check for the data link is correctly linked from the DMX source if all cables are in good condition. |
| | Other device on DMX link defective. | Unplug XLR IN and OUT connectors and connect them directly together to bypass one fixture at a time until normal operation is regained. |
| | Data transmission lines should be terminated. | Insert termination plug in OUTPUT of the last fixture on the link. |
| LCD display works but no light outputs can be generated | Faulty DMX link | Run built-in test mode or OBD control mode to verify if LEDs are illuminated. |
| | Broken parts / wires / LEDs | Have fixtures serviced by Ehrgeiz service technicians. |
| Cooling Fan does not spin*. | Fixture is set to Auto cooling mode and fixture is still cool with no light output. | Set the cooling mode to other modes instead of "Auto". (See Page 16) |
| | | Set the fixture to generate light output, the fan will start to work when temperature reached 35 deg. Celsius (95 deg. Fahrenheit). |
| | Broken Fans | Replace the cooling fan with specified IP rating grade from Ehrgeiz dealer only. |
| | Broken cable | Examine the external cable and replace the cooling fan unit with specified IP rating grade from Ehrgeiz dealer only. |

*" Denotes Supernova model only.



Maintenance:

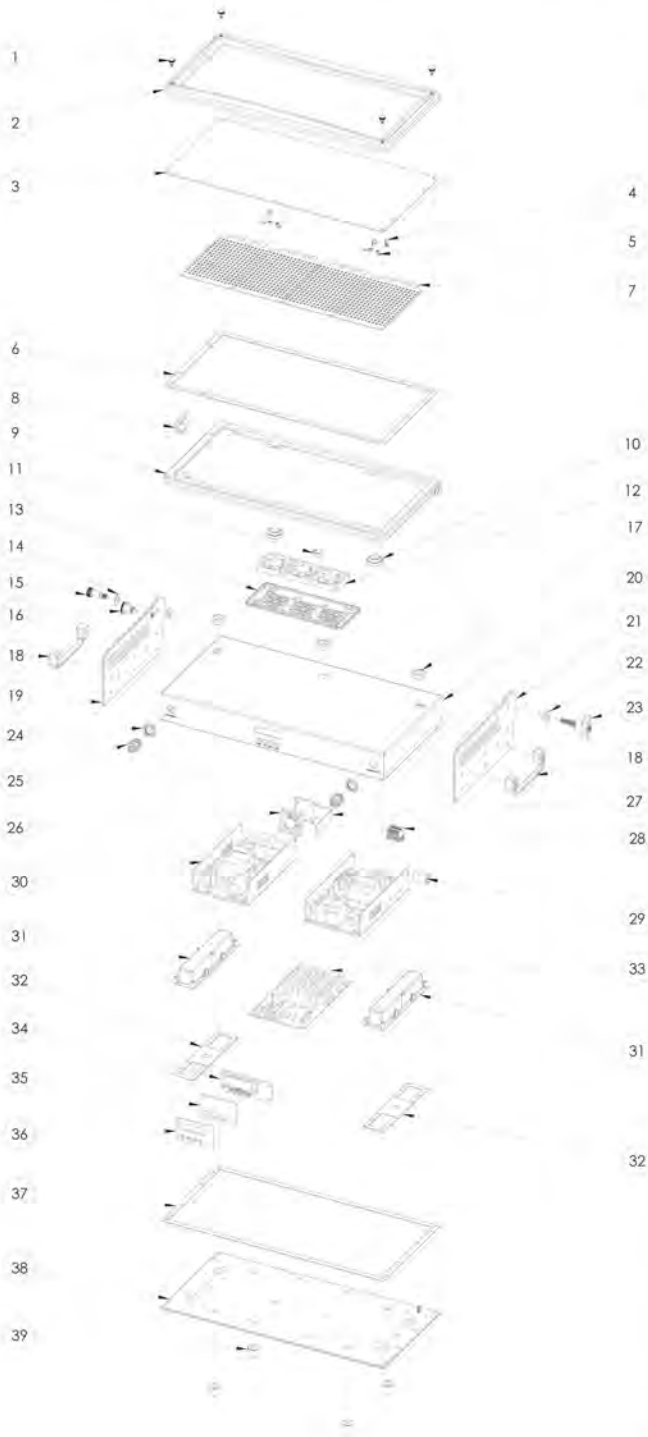
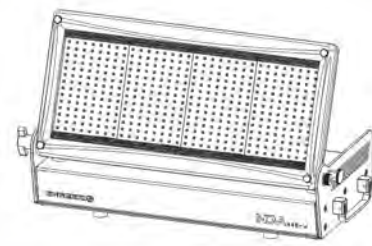
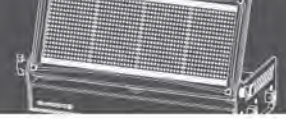


Figure 20

| No. | English Description | QTY | Part No. |
|-----|---|-----|----------|
| 1 | Diffusor Holder Screw | 4 | 106252 |
| 2 | Top Cover | 1 | 111102 |
| 3 | Top Protection Cover | 1 | 111103 |
| 4 | Cable Tie CU-80(2.5x80mm) Black | 3 | 111105 |
| 5 | Cable Tie Mount-ASUS-3(B) | 4 | 111106 |
| 6 | Top Waterproof Seal Ring | 1 | 111107 |
| 7 | LED Board-Supernova | 4 | 105728 |
| 7 | LED Board-Nova | 4 | 105725 |
| 8 | Angular Indexing Plate | 1 | 111108 |
| 9 | Heat Sink-Supernova | 1 | 111110 |
| 9 | Heat Sink-Nova | 1 | 111110 |
| 10 | Waterproof Air Ventilation Valve | 2 | 111111 |
| 11 | Cable Guide Loop-CC-3 (Black) | 1 | 111112 |
| 12 | Waterproof Brushless DC Fan (*Supernova) | 3 | 111113 |
| 13 | Fan Cover (*Supernova) | 1 | 111114 |
| 14 | Plate Type Spring (ø20xø10.3x1T)-Black Anodized | 1 | 111115 |
| 15 | Screw ø10x16(M8)-Black Anodized | 1 | 111116 |
| 16 | Indexed Plunger SGR822.1-0056 | 1 | 111117 |
| 17 | Waterproof Cable Seal-T_14757 16 | 3 | 111118 |
| 18 | Handle JYHUEI A-421 (Black) | 2 | 111119 |
| 19 | Side Plate-Left | 1 | 111120 |
| 20 | Fixture Base Housing | 1 | 111121 |
| 21 | Side Plate-Right | 1 | 111122 |
| 22 | Conversion Shaft-M8 | 1 | 111123 |
| 23 | Rotary Knob-M8X1.25X30L-HB45M830 | 1 | 111124 |
| 24 | Screw Nut-M16X1.5 | 2 | 111125 |
| 25 | AGRO Waterproof PG Gland-(M16X1.5) | 2 | 111126 |
| 26 | Base Circulation Fan SUNON (40X40X10) | 1 | 111127 |
| 27 | Fan Bracket | 1 | 111128 |
| 28 | Terminal Block PM2.5N-04P | 1 | 111129 |
| 29 | Ferrit Core (RH 17.5x10.7x28.5) | 1 | 111130 |
| 30 | Supernova Power Supply | 2 | 111131 |
| 30 | Nova Power Supply | 1 | 111131 |
| 31 | Waterproof Box | 2 | 111132 |
| 32 | Waterproof Box Seal Packing | 2 | 111133 |
| 33 | Supernova Control & Driver Board | 1 | 105729 |
| 33 | Nova Control & Driver Board | 1 | 105726 |
| 34 | Supernova LC Display Board w/ Input Buttons | 1 | 105730 |
| 34 | Nova LC Display Board w/ Input Buttons | 1 | 105727 |
| 35 | Transparent Window for Display | 1 | 111134 |
| 36 | Display Seal Packing | 1 | 111135 |
| 37 | Base Plate Seal Packing | 1 | 111136 |
| 38 | Bottom Housing Plate | 1 | 111137 |
| 39 | Fixture Standing Feet (FVE-413061-20X15XM6) | 4 | 111138 |

Appendix



Nova 448 - W Animation Table

DMX 006 - 020 = Static

DMX 021 - 075 = Chase Animation (Works with Pattern Speed Table)

DMX 076 - 131 = Fade Animation (Works with Pattern Speed Table)

| DMX | | | Animation Description |
|-------|-------|-------|--|
| Chase | Fade | Steps | Name |
| 021 | (076) | 4 | Chase Bar Left to Right |
| 022 | (077) | 4 | Chase Bar Right to Left |
| 023 | (078) | 4 | Chase Bar Shuffle Left to Right |
| 024 | (079) | 4 | Chase Bar Shuffle Right to Left |
| 025 | (080) | 2 | Jump Square Left to Right |
| 026 | (081) | 2 | Jump Square Right to Left |
| 027 | (082) | 2 | Alternating Vertical Bars Left |
| 028 | (083) | 2 | Alternating Vertical Bars Right |
| 029 | (084) | 2 | Outer Inner Jump |
| 030 | (085) | 2 | Inner Outer Jump |
| 031 | (086) | 3 | Chase Square Left to Right |
| 032 | (087) | 3 | Chase Square Right to Left |
| 033 | (088) | 4 | Chase Invert Bar Left to Right |
| 034 | (089) | 4 | Chase Invert Bar Right to Left |
| 035 | (090) | 2 | Jump Invert Bar Left / Right |
| 036 | (091) | 2 | Jump Invert Bar Right / Left |
| 037 | (092) | 2 | Jump Invert Bar Inner Left / Inner Right |
| 038 | (093) | 2 | Jump Invert Bar Inner Right / Inner Left |
| 039 | (094) | 5 | Fill up Left to Right |
| 040 | (095) | 5 | Empty to Left |
| 041 | (096) | 5 | Fill up Squares Right to Left |
| 042 | (097) | 5 | Empty Squares to Right |
| 043 | (098) | 5 | Fill up Inner Right to Left |
| 044 | (099) | 5 | Empty to Inner Right |
| 045 | (100) | 5 | Fill up Right to Left |
| 046 | (101) | 5 | Chase Square Through Left to Right |
| 047 | (102) | 5 | Chase Square Through Right to Left |
| 048 | (103) | 7 | Chase 3 - Bars Through Left to Right |

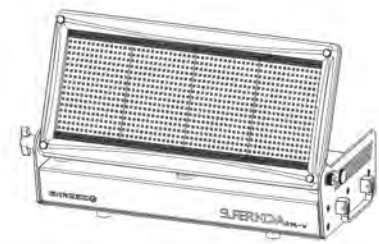
| DMX | | | Animation Description |
|-------|-------|-------|--|
| Chase | Fade | Steps | Name |
| 049 | (104) | 7 | Chase 3 - Bars Through Right to Left |
| 050 | (105) | 5 | Chase Invert Bar with Full-on Left to Right |
| 051 | (106) | 5 | Chase Invert Bar with Full-on Right to Left |
| 052 | (107) | 6 | Chase Invert Square with Full-on Left to Right |
| 053 | (108) | 6 | Chase Invert Square with Full-on Right to Left |
| 054 | (109) | 7 | Chase Invert 3 - Bars Through with Full-on Left to Right |
| 055 | (110) | 7 | Chase Invert 3 - Bar Through with Full-on Right to Left |
| 056 | (111) | 8 | Fill up from Left and Empty to Left |
| 057 | (112) | 8 | Fill up from Right and Empty to Right |
| 058 | (113) | 8 | Empty to Left and Fill up from Left |
| 059 | (114) | 8 | Empty to Right and Fill up from Right |
| 060 | (115) | 8 | Fill up from Left and Empty to Right |
| 061 | (116) | 8 | Fill up from Right and Empty to Left |
| 062 | (117) | 8 | Empty to Right and Fill up from Left |
| 063 | (118) | 8 | Empty to Left and Fill up from Right |
| 064 | (119) | 11 | Fill up Bars from Left |
| 065 | (120) | 11 | Empty Bars to Left |
| 066 | (121) | 11 | Fill up Bars from Right |
| 067 | (122) | 11 | Empty Bars to Right |
| 068 | (123) | 20 | Fill up Bars from Left and Empty to Left |
| 069 | (124) | 20 | Empty Bars to Left and Fill up from Left |
| 070 | (125) | 20 | Fill up Bars from Right and Empty to Right |
| 071 | (126) | 20 | Empty Bars to Right and Fill up from Right |
| 072 | (127) | 20 | Fill up Bars from Left and Empty to Right |
| 073 | (128) | 20 | Fill up Bars from Right and Empty to Left |
| 074 | (129) | 20 | Empty Bars to Left and Fill up from Right |
| 075 | (130) | 20 | Empty Bars to Right and Fill up from Left |

Supernova 896 - W Animation Table

DMX 006 - 039 = Static

DMX 040 - 135 = Chase Animation (Works with Pattern Speed Table)

DMX 136 - 231 = Fade Animation (Works with Pattern Speed Table)



| DMX | | | Animation Description |
|-------|-------|-------|--|
| Chase | Fade | Steps | Name |
| 040 | (136) | 8 | Dot Chase Top Left to Lower Right |
| 041 | (137) | 8 | Dot Chase Lower Right to Top Left |
| 042 | (138) | 8 | Dot Jump Top Left to Lower Right |
| 043 | (139) | 8 | Dot Jump Lower Left to Top Right |
| 044 | (140) | 8 | Dot Jump Lower Right to Top Left |
| 045 | (141) | 8 | Dot Jump Top Right to Lower Left |
| 046 | (142) | 8 | Dot Snake Top Left to Top Right |
| 047 | (143) | 8 | Dot Snake Lower Left to Lower Right |
| 048 | (144) | 8 | Dot Snake Top Tight to Top Left |
| 049 | (145) | 8 | Dot Snake Lower Right to Lower Left |
| 050 | (146) | 4 | Bar Chase Left to Right |
| 051 | (147) | 4 | Bar Chase Right to Left |
| 052 | (148) | 4 | Bar Circle Top Left to Top Right |
| 053 | (149) | 4 | Bar Circle Top Left to Lower Left |
| 054 | (150) | 4 | Bar Jump Top Left to Lower Right |
| 055 | (151) | 4 | Bar Circle Top Right to Top Left |
| 056 | (152) | 4 | Bar Circle Lower Left to Top Left |
| 057 | (153) | 4 | Bar Jump Lower Right to Top Left |
| 058 | (154) | 4 | Bar Circle Lower Left to Lower Right |
| 059 | (155) | 4 | Bar Jump Lower Left to Top Right |
| 060 | (156) | 4 | Bar Circle Lower Right to Lower Left |
| 061 | (157) | 4 | Bar Jump Top Left to Lower Left |
| 062 | (158) | 4 | Opposing Dots Chase Top Left / Lower Right |
| 063 | (159) | 6 | Opposing Dots Chase with Return Top Left / Lower Right |
| 064 | (160) | 6 | Opposing Dots Chase with Return Lower Left / Top Right |
| 065 | (161) | 5 | Bar Chase with Return Left |
| 066 | (162) | 6 | Bar Chase with Return Right |
| 067 | (163) | 4 | Opposing Dots Chase Lower Left / Top Right |
| 068 | (164) | 2 | Full Bar Jump Top / Low |
| 069 | (165) | 2 | Full Bar Jump Low / Top |

| DMX | | | Animation Description |
|-------|-------|-------|--|
| Chase | Fade | Steps | Name |
| 070 | (166) | 2 | Chessboard Bars Jump Top Left / Lower Right |
| 071 | (167) | 2 | Chessboard Bars Jump Lower Left / Top Right |
| 072 | (168) | 2 | Inner Outer Jump |
| 073 | (169) | 2 | Outer Inner Jump |
| 074 | (170) | 2 | Chessboard Dots Jump Top Left |
| 075 | (171) | 2 | Chessboard Dots Jump Lower Left |
| 076 | (172) | 2 | Rope Jump Low to Top |
| 077 | (173) | 2 | Rope Jump Top to Low |
| 078 | (174) | 2 | Alternating Vertical Bars Left |
| 079 | (175) | 2 | Alternating Vertical Bars Right |
| 080 | (176) | 9 | Fill Up from Top Left |
| 081 | (177) | 9 | Empty to Top Left |
| 082 | (178) | 9 | Fill Up from Lower Right |
| 083 | (179) | 9 | Empty to Lower Right |
| 084 | (180) | 5 | Fill Up from Left |
| 085 | (181) | 5 | Empty to Left |
| 086 | (182) | 5 | Fill Up from Right |
| 087 | (183) | 5 | Empty to Right |
| 088 | (184) | 5 | Fill up Down from Top Left |
| 089 | (185) | 5 | Empty Up to Top Left |
| 090 | (186) | 5 | Fill up Right from Top Left |
| 091 | (187) | 5 | Empty Left to Top Left |
| 092 | (188) | 5 | Fill Up Circle CW from Lower Left |
| 093 | (189) | 5 | Empty Circle CCW to Lower Left |
| 094 | (190) | 5 | Fill Up Circle CCW from Lower Left |
| 095 | (191) | 5 | Empty Circle CW to Lower Left |
| 096 | (192) | 5 | Fill Up Opposing Lines Top Left / Lower Right |
| 097 | (193) | 5 | Empty Opposing Lines to Top Left / Lower Right |
| 098 | (194) | 5 | Fill Up Opposing Lines Top Right / Lower Left |
| 099 | (195) | 5 | Empty Opposing Lines to Top Right / Lower Left |



B&K Braun GmbH
Industriestr. 2
D-76307 Karlsbad - Germany

Tel: +49 7248 912 100
Fax: +49 7248 912 119
E-Mail: info@bkbraun.com
Web: www.bkbraun.com