



Information specifically for:

DL-OCTOBAR830TC

v1.0

This manual contains important information. Please read before operating fixture.





Save original packing and documentation for warranty, service and return issues.

Limited Warranty: This warranty covers defects or malfunctions in this equipment. This warranty lasts for a period of one year from date of purchase. It is the owner's responsibility to provide invoices for proof of purchase, purchase date and dealer or distributor. If purchase date can not be provided, warranty period will start at manufacture date. It is the sole discretion of Techni-Lux to repair or replace parts or equipment. All shipping will be paid by purchaser. This warranty does not cover lamps, fuses, belts, power semiconductors, relays, cleaning, standard maintenance adjustments or normal wear items or any problem resulting from the following: improper wiring, incorrect voltage (including low or over voltage conditions and lightning), abuse, misuse, improper maintenance or an act of God or damage resulting from shipping. Warranty will be null and void if the product is altered, modified, misused, damaged, or subjected to unauthorized repairs. Lamps are covered by relevant manufacturer warranty. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Any liability for consequential and incidental damages is expressly disclaimed. No other warranty, expressed or implied is made. Techni-Lux liability in all events is limited to, and shall not exceed, the purchase price paid.

Returning equipment and Repairs: All returns must be accompanied by a Return Merchandise Authorization (RMA) number and sent pre-paid. Contact the dealer or Techni-Lux directly to obtain an RMA. The RMA number must be clearly listed on the shipping label. Due care must be exercised in packing all merchandise to be returned. All repairs must be accompanied by a written explanation of the claimed problem or error encountered. Techni-Lux is solely responsible for determining a product's eligibility for coverage under warranty. If returning for consideration of credit, all accessories and documentation, original protective material and cartons must be included and the equipment, packing and carton must be in new resalable condition. Credit for returned merchandise will be issued at the lowest current price and is subject to a restocking fee. No returns accepted on discontinued items. Techni-Lux is not responsible for merchandise damaged in transit and reserves the right to refuse any return that is damaged by the carrier, not accompanied by a Return Authorization Number (RMA#) or sent by freight collect.

Claims: All claims must be made within seven (7) days of receipt of merchandise. Any physical damage must be reported to carrier upon receipt of merchandise.

Please record the following information for future reference: Model Number (circle): DL-OCTOBAR830TC

Serial N	umber:		
Dealer:		 	
Date of F	Purchase:		

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Specifications

Fixture Overview

- 8 x 30w RGB COB LEDs
- Individual control of each of the 8 LEDS
- Beam Angle 60°
- Rugged Aluminum Housing
- Operating modes: DMX, Auto Run, Chases, Sound Active, Master/Slave
- Precise DMX control using 3, 5, 24, or 27 channels
- Both 3 and 5 Pin XLR DMX connectors
- Static and 13 Built-in programs
- Digital LCD display menu for settings
- Quiet operation

Physical

Color Black

Size 34.7" x 5.71" x 7.1" Weight 13.64 lbs (6.2 kgs) Housing Material Aluminum and steel

Environmental

Location Indoor

Max. ambient temperature 113°F (45°C)
Min. distance to flammable surface 3.3ft (1m)
Min. distance to illuminated surface 1ft (0.3m)

Electrical

Voltage Auto Ranging 100 - 250vAC, 50-60Hz

Rated Power 280W

Fuses 3 amp mini size: 5x20mm

Control

Digital Protocol USITT DMX512 (1990)
Channels 3, 5, 24 or 27 maximum
Data I/O 3 or 5 Pin XLR (Cannon)
Modes DMX512 or Stand-Alone

Optics

Light Source 8 RGB 30 watt COB LEDS

Beam Angle 60°

Rigging

Orientation Any

Mounting Points Universal mounting bracket, with clamp bolt mounting holes.

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Unpacking

Immediately upon receipt, carefully unpack and inspect the fixture to verify that all parts are present and have been received in good condition. If any parts appear damaged from shipping or the shipping carton shows signs of mishandling, notify the shipper immediately. Retain carton and all packing material for inspection. In the event that the merchandise is to be returned, the original carton and packing must be used. The customer will be billed for a new carton and packing if merchandise is received without the original carton and packing.

Claims

Physical damage must be reported to the Freight Carrier or Shipping Company upon receipt of merchandise. Damage incurred in shipping is the responsibility of the Freight Carrier or Shipping Company. It is the customer's obligation in the event that merchandise is received damaged, to notify the Freight Carrier or Shipping Company immediately. All other claims not related to damage incurred during shipping must be made to the Dealer or Distributor within 7 days of receiving merchandise.

Returns

Returned merchandise must be in the original packing with a Return Merchandise Authorization number (RMA) clearly listed on the shipping label. Items sent by Freight Collect or without a RMA number will be refused. Call your sales person and request a RMA prior to shipping. Be prepared to provide the model number, serial number and description of the nature of the return. Shipping damage resulting from inadequate packaging is the customer's responsibility. Customer will be charged additional shipping charges to return products received in non original packing and or cartons.

Power



Do not apply power to the fixture until power source is verified.

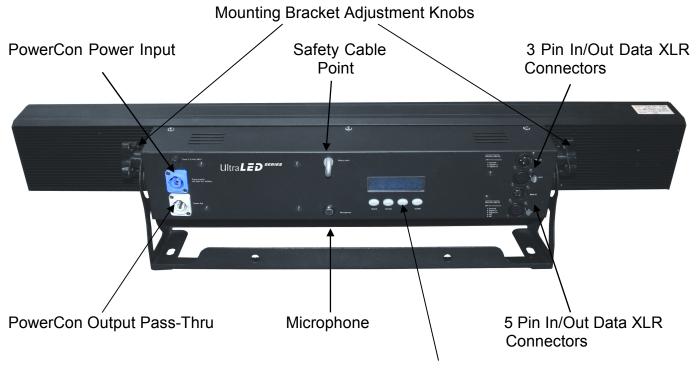
For protection against electric shock, fixture must be connected to suitable earth ground. Make sure fixture is disconnected from power mains before any service.

The mains voltage and frequency of this fixture is automatically set. It may operate on an input AC voltage ranging from 100 to 250volts, 50/60Hz. The listed power rating is its average wattage under normal conditions. All fixtures must be powered directly from a switched circuit. This fixture cannot be run on a rheostat or dimmer circuit even if used solely for a 0% to 100% switching. Before applying power to a fixture, check that the fixture's input voltage matches the power source voltage. Consult a qualified electrician if there are any concerns about proper connection to power.

Mounting

Always consult a qualified professional when rigging. Consider access for routine maintenance when selecting a mounting position. This fixture may be mounted in any position provided there is adequate room for movement and ventilation. Mount the fixture securely using proper hardware, clamps and a safety cables. This fixture features a universal mounting bracket that allows adjustment and positioning when mounted. The bracket may be used to floor stand this unit or mount on wall. Mounting holes are provided on each bracket to help accommodate a clamp. Always keep cords out of the way, thus preventing any trip hazards. Secure all cables properly. Do not mount where the fixture will be exposed to any water or rain, high humidity, extreme temperature changes or restricted ventilation. Do not obstruct any vents or heat-sinking.

Basic Reference



Digital Display & Menu Setting Buttons

Setup and Operation Modes (LCD Display)

The following refers to the different modes that are available on this fixture via the LCD Control Panel display. All functions are selectable from the display menu located at the back of the fixture.

Note: The actual fixture may vary from the illustrations shown in this manual.

Control Panel Menu & Operation Settings

Use the fixture's Control Panel to access the Control Menu. The MODE Key puts the fixture in the settings menu itself. The UP/DOWN moves through the menu options and allows the assignment of a value. The ENTER key is used to enter that option and confirms the selection once the UP/DOWN is used to adjust the value. Settings are stored and recalled on subsequent power cycles. R, G, B, refers to Red, Green and Blue respectively. DMX and master/slave modes require data cables to be connected between fixtures. Manual and some stand-alone modes do not require data cables for independent use of the fixture.

Built-in Program Chase Operation (P01-P14)

A program is a sequence of different steps that will be called up one after another in a continuous loop. With the DL-OCTOBAR830TC fixture, you can select one static color or from 13 different program chases. Each program is described in the table below.

To select a program:

Press the MODE button to select the internal PROGRAM Mode. Select the desired chase from P01 to P14 using the UP/DOWN buttons. Press the ENTER button to select speed and flash settings, respectively. You can select the desired values via the UP/DOWN buttons. Speed is from slowest 00 to fastest at 99. Set strobe flashing from none at 00 to fastest at 99. Press the ENTER button to confirm and to exit the STAND ALONE Mode.

Note: Under programs P13 & P14, FLOW 8 and FLOW 9 there are 2 sub-programs to choose from (C1, C2). Please press the ENTER button twice to reach the sub-programs. The desired color combinations can be selected using the UP/DOWN buttons.

P1 STATIC COLOR	Blackout, Red-Green-Blue-Yellow-Cyan-Purple-White
CL:RGB Flash 00-99	Flash strobe speed adjustable.
P2 DREAM	Seven color dreaming
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P3 METEOR	Seven color flow
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P4 FADE	Seven color fade
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P5 CHANGE	Seven color change
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P6 FLOW 1	Seven color chase in 1 direction
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable

P7 FLOW 2	Seven color chase in 2 directions
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P8 FLOW 3	Seven color relay chase in 1 direction
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P9 FLOW 4	Seven color relay chase in 2 direction
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P10 FLOW 5	Seven color chase from two sides to middle
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P11 FLOW 6	Seven color chase from middle to two sides
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P12 FLOW 7	Seven color chase
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
P13 FLOW 8	Two color chase in 1 direction
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
C1: BLACK-RGB C2: BLACK-RGB	Blackout, Red-Green-Blue-Yellow-Cyan-Purple-White
P14 FLOW 9	Two color chase in 2 directions
Speed 00-99 Flash 00-99	Speed & Flash strobe adjustable
C1: BLACK-RGB C2: BLACK-RGB	Blackout,Red-Green-Blue-Yellow-Cyan-Purple-White

Auto Run Operation

In Auto Mode the programs are called up automatically in a continuous loop. Press the MODE button to select the AUTO Mode. Press the ENTER button to select the desired frequency of the loops. The desired frequency of the loops (Frequency = FQN 01-99) can be selected using the UP/DOWN buttons. Please press the ENTER button to confirm and to exit the AUTO Mode.

Slave Operation

The master/slave operation enables several LED bars to be synchronized and controlled by one master device. For slave operation to function, XLR data cables must be used to connect fixtures together. To set this mode, press the MODE button to select the SLAVE mode. Any devices set in this manner can now be controlled by the master unit. Press the ENTER button to confirm and to exit the SLAVE Mode.

Sound Active Operation

Press MODE button until you reach the SOUND controlling mode, then the fixture will respond to the sound of audio. Press UP/DOWN to adjust the sound sensitivity levels (SENS00-31) & frequency (FQN01-99) of loops. Press the ENTER button to select the desired sensitivity and frequency of the loops, respectively. Press the ENTER button again to confirm and to exit the SOUND Mode.

Invert Function

Press MODE button until you reach FLOW INVERT mode. Press Enter, then select ON/OFF. This will adjust the flow running effect from left to right or right to left.

DMX Operation

The DMX operation mode allows you to control the bar using a standard DMX controller. In this mode you set the start address at which the fixture will respond to the controller on. Also the channel assignment mode to be used is set here. To address simply press the MODE button until the display shows DMX MODE. Press the ENTER button and the display shows: 001. Set the desired address using the UP/DOWN buttons. Please press the ENTER button again to confirm and to select a DMX Channel Mode. After having set the desired address and pressed ENTER, you can now choose a DMX Channel Mode from 3, 5, 24, and 27. Set the desired mode using the UP/DOWN buttons. Press the ENTER button again to confirm and to exit the DMX Mode.

Note: The following DMX-512 Control section explains how to select a DMX start address for your fixture. It also covers connecting data cables, proper termination, specific channel assignments and channel value tables.

DMX-512 Control

Fixtures require a "Start Address" from 1 to 512, setting the first DMX channel containing data for the fixture (see DMX Background). Before addressing fixtures, consult the manual of the system's DMX controller to select a desirable addressing scheme. Valid Start Addresses range from 1 to 512. Fixtures requiring more than one channel for control will read subsequent channels up to the total number of channels required. In 5 channel mode, the fixture would require 5 channels of DMX, if set to a Start Address of 6 it would use data from channels: 6 and 7, 8, 9, 10. Choose a Start Address so the channels used DO NOT overlap with other fixtures. In some cases, it may be desirable to set two or more same type fixtures to the same Start Address. In this case, the fixtures will be slaved together and respond to the same data. Because all fixtures see the same data, fixtures may be set to any address without concern for the order they are connected by the DMX cables.

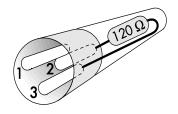
DMX Data Connection

This fixture uses both 3 and 5 pin XLR type connectors and shielded twisted pair cable approved for EIA-422/EIA485 use. Fixtures are connected in Daisy Chain topography: Connection is made from the controller to the DMX-IN of the first light, then from the DMX-OUT to the DMX-IN of the next light and so on. Only one data source can be on a chain and no branching is allowed. The physical order in which the fixtures are connected is not important, use the most convenient.

DMX-IN **DMX-OUT** XLR Connector - Socket: XLR Connector - Plug: 1- Ground 1 - Ground 2 - Signal (-) 2 - Signal (-) 3 - Signal (+) 3 - Signal (+) 1 - Ground 1 - Ground 2 - Signal (-) 2 - Signal (-) **3** - Signal (+) 3 - Signal (+) 4 - (Unused) 4 - (Unused) 5 - (Unused) 5 - (Unused)

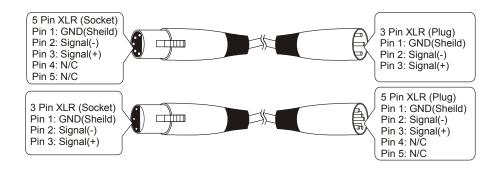
Data Terminator

A Data Terminator can be connected to the DMX-OUT of the last fixture to reduce the effects of signal noise; it is not required for all installations. To make a Terminator, connect a 120-ohm ¼ watt resistor across pin 2, Data Negative (S-) and pin 3, Data positive (S+). Whether it is a 5 pin XLR or 3 pin XLR connector (shown on right) does not matter, the pin numbers remain the same. A qualified technician can determine if a Data Terminator is needed.



Adapter 5-to-3 pin

Systems using 5 pin DMX interfaces can be accommodated by purchasing 3-to-5 pin adapters or building adapter cables. Numbers designating each pin can be found on connectors. Converting between the two XLR types is done in a pin-to-pin fashion. Connect the shields to pin 1, then connect pin 2 to pin 2 and pin 3 to pin 3, regardless of either connector's gender or pin count. No connection is made to Pins 4 & 5.



DMX Start Address

To place the fixture in DMX mode, press the MODE key, then using the UP/DOWN keys get to the Address Menu Option. Press ENTER and using the UP/DOWN buttons, set the start address number for this particular unit in the DMX chain. Once selected, press ENTER again to save your selection. More than one fixture may have the same start address, but they will behave the same. Giving a unique start address that does not overlap with any other units allows you to individually control that fixture's features fully. Never allow channels to overlap. You will need to select the number of channels you wish the fixture to use first. Your choices are 3, 5, 24 or 27 channel modes. This will determine the spacing of channels you will need to avoid overlapping of channels when selecting your start addresses.

Example Select Start Addresses for 4 fixtures each requiring 5 channels of DMX (5 channel mode).

For this example, start with the first unit set to the first possible Start Address = 1. This fixture occupies DMX channels 1 thru 5. The next DMX channel available for a Start Address is found by adding the previous fixture's Start Address to its channel requirement: 1+5=6. To maximize channel usage, we will leave no empty channels between fixtures so the second Start Address is set to DMX channel 6 and that fixture occupies channels 6 thru 10. The third fixture will be addressed 6+5=11 and occupy channels 11 thru 15. The last fixture is addressed 11+5=16 and will occupy channels 16 thru 20. Thus, 4 fixtures using 5 channels each have Start Addresses of 1, 6, 11 and 16 and the next free channel in the system is 16+5=21.

DMX Channel Assignments

This fixture features 4 different DMX Channel modes. A 3, 5, 24 and 27 channel mode. Using the 3 channel mode provides the least granular control, and relatively uses the least number of DMX channels. The different channel assignments and values are shown below in the following tables.

Note: The channel order maybe different for each of the modes.

DMX Channel Mode Descriptions

In the 3 and 5 channel modes, the first 3 channels (1, 2, 3) function the same.

3 channels: Bar completely operates as 1 complete section only.

| Ch |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1,2,3 | 1,2,3 | 1,2,3 | 1,2,3 | 1,2,3 | 1,2,3 | 1,2,3 | 1,2,3 |
| | | | | | | | |

5 channels: Bar completely operates as 1 complete section only, with additional Master dimmer, strobing and sound control channels.

1,2,3	Ch							
	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3

24 channels: Bar is divided into 8 individual sections of RGB, without any macro, master dimmer or strobe function channels.

R,G,B	R,G,B	R,G,B	R,G,B	R,G,B	R,G,B	R,G,B	R,G,B
Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch
1,2,3	4,5,6	7,8,9	10,11,12	13,14,15	16,17,18	19,20,21	22,23,24

27 channels: Bar is divided into 8 individual sections of RGB with macro, master dimmer and strobe functions. Channels 1,2,3 are used to set what the other channels will do.

R,G,B	R,G,B	R,G,B	R,G,B	R,G,B	R,G,B	R,G,B	R,G,B
Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch
4,5,6	7,8,9	10,11,12	13,14,15	16,17,18	19,20,21	22,23,24	25,26,27

3 Channel Mode

Channel	Function
1	Red (0-255)
2	Green (0-255)
3	Blue (0-255)

5 Channel Mode

Channel	Function
1	Red (0-255)
2	Green (0-255)
3	Blue (0-255)
4	Master Dimmer (0-255)
5	000-000 On – No Function
	001-005 Sound On (7 colors)
	006-010 On
	011-255 Strobe (slow to fast)

24 Channel Mode

CH	СН	СН	СН	CH	СН	СН	СН	СН	СН	СН	CH	СН	СН	СН
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R1	G1	B1	R2	G2	B2	R3	G3	В3	R4	G4	B4	R5	G5	B5
СН														
16	17	18	19	20	21	22	23	24						
R6	G6	В6	R7	G7	В7	R8	G8	B8						

27 Channel Mode

СН	CH	CH	СН	СН	СН	CH	CH	CH	CH	СН	CH	CH	СН	СН
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
00-15	Master Dimmer (0-255)	Strobe (0-255)	R1	G1	B1	R2	G2	B2	R3	G3	В3	R4	G4	B4
СН	CH	CH	СН	СН	СН	CH	CH	CH	CH	СН	CH			
16	17	18	19	20	21	22	23	24	25	26	27			
R5	G5	B5	R6	G6	В6	R7	G7	В7	R8	G8	В8			

Note: The first two channels in the 27 channel mode determine what the other channels will do. The table below shows what the channels affect.

CH1	CH2	СНЗ	CH4	CH5	CH6	CH27
0-15	Master dimmer		R (0-255)	G (0-255)	B (0-255)	
16-23 R	Master dimmer	1				
24-31 G	Master dimmer					
32-39 B	Master dimmer					
40-47 RG	Master dimmer					
48-55 GB	Master dimmer					
56-63 RB	Master dimmer	Flash				
64-71 RGB	Master dimmer	(0-255)				
72-79 Color 1	Master dimmer	Slow to Fast				
80-87 Color 2	Master dimmer	lust				
88-95 Color 3	Master dimmer					
96-103 Color 4	Master dimmer					
104-111 Color 5	Master dimmer					
112-119 Color 6	Master dimmer					
120-127 Color 7	Master dimmer					
128-135 Color 8	Master dimmer					
136-143 DREAM						
144-151 METEOR	1					
152-159 FADE	1					
160-167 CHANGE	Speed (0-255)					
168-175 FLOW1	Slow to Fast					
176-183 FLOW2						
184-191 FLOW3	1					
192-199 FLOW4	1					
200-207 FLOW5	1					
208-215 FLOW6	1					
216-223 FLOW7	1					
224-231 FLOW8	1		Select color	Select color		
000 000 El OWO	4		Onlant and	0-141		
232-239 FLOW9			Select color	Select color		
240-255 SOUND	Sensitivity (0-255)		l	1		

Maintenance

M

Make sure fixture is cool and disconnected from power mains before any service.

Weekly operating hours and environmental conditions will establish how often the fixtures need cleaning. Fixtures should be cleaned and inspected at least once a month to maintain optimum performance. Accumulation of dust and fog residue increases heat build up, can lead to malfunctions, overheating and reduction in maximum light output, reduced fixture life and over all performance. Before conducting any maintenance, disconnect fixture from power mains.

- 1) Disconnect fixture from power mains.
- 2) Use a vacuum with a soft brush to remove dust collected on external vents, heat sinks and internal components. If using an air compressor, use low pressures and extreme care to prevent damaging any internal parts or effects.
- 4) Clean all optical elements when the fixture is cold. Use a soft lint free cotton cloth or tissue and cleaner safe for plastics.
- 5) Inspect clamps and safety cables to ensure fixture is secure and safe.

Accessory Items (sold separately)

Order Code	Description	
CLAMP-MEGA/B	Mega Heavy Duty Aluminum Clamp – Black	
CLAMP-CBHALF	Half Cheeseborough Coupler 300kg Max Load	
SAFETYCABLE18B	Safety Cable Black 18"	
SAFETYCABLE18S	Safety Cable Silver 18"	
CA-XLR5/5	Pre-made 5' 5-pin XLR Cable	
CA-XLR5/10	Pre-made 10' 5-pin XLR Cable	
CA-XLR5/25	Pre-made 25' 5-pin XLR Cable	
CA-XLR3/5	Pre-made 5' 3-pin XLR Cable	
CA-XLR3/10	Pre-made 10' 3-pin XLR Cable	
CA-XLR3/25	Pre-made 25' 3-pin XLR Cable	
CO-XLR5M	XLR Connector 5-pin Male	
CO-XLR5F	XLR Connector 5-pin Female	
CO-XLR3M	XLR Connector 3-pin Male	
CO-XLR3F	XLR Connector 3-pin Female	
CO-XLRTERM5	XLR 5 Pin Data Terminator	
CO-XLRTERM3	XLR 3 Pin Data Terminator	
CO-XLR3MTO5F	XLR 3 Pin Male to 5 Pin Female Adapter	
CO-XLR5MTO3F	XLR 5 Pin Male to 3 Pin Female Adapter	

Troubleshooting

Symptom	Possible Cause / Solution		
No Power	Check for power on mains		
	Check main fuse and fuse holder		
Erratic / No response to DMX	Check data cables: connection and proper wiring		
	Check Display settings		
	Check Start Address		
Incorrectly responds to DMX	Check Start Address		
(Diagnostic technique for DMX issues: Set	Check for overlapping addresses		
suspect fixture's Start Address the same as a correctly functioning fixture. If both units then	Check Menu settings		
function correctly, issue is programming)	Check Data cables (faults and proper wiring)		

DMX-512 Background

DMX-512 is a digital data transmission standard developed by the United States Institute for Theater Technology (USITT). It is designed to enable control of lighting equipment. DMX deals solely with the formatting of data for transmission and does not dictate how the data is created or used.

Under DMX, signals are transmitted in much the same way a computer modem transmits data. The Data, divided into channels, is "Framed" using a start bit, high (1), eight data bits and finally, two stop bits, both high (1). DMX uses no parity to check the integrity of the signal. Instead, DMX relies on the ultra low probability of an error occurring in the same place when the data is resent. The rate at which data is sent is fixed at 250k bps, almost four and a half times faster that a 56k modem. This speed allows all data on a DMX chain to be updated more than 44 times every second.

The transmitted data follows a specific format. DMX allows for 512 channels each with eight data bits, giving each channel the possibility of 256 values. When a data "Packet" is sent, all channels are transmitted one after another. Even if the data on a specific channel has not been changed, it must be sent. In a packet, a "start code" of all zeros is sent before the data to identify the signal as a Standard DMX transmission. This start code is transparent to the user and is handled by the controller.

The physical signals are transmitted using a twisted pair of wires and a common shield, a configuration called Balanced. The controller and all receiving equipment are connected using a "Daisy Chain" connection. The signal is jumped from the controller to a piece of DMX equipment. From there, the signal is jumped to the next piece of equipment and so on until the last piece of equipment is connected. No branches are allowed and the signal does not come back to the controller. The final piece of equipment will have only one cable connection. As a result, all equipment connected to the chain will see exactly the same signal whether it is first or last. When connecting equipment, no particular attention needs to be paid to the order in which the equipment is connected. Depending on the conditions and equipment, a line terminator may be required. If there is any question, in most circumstances the addition of a terminator will not degrade the signal. To make a terminator, attach a 120-ohm resistor between the Signal Data Negative and Signal Data Positive pins of a connector in the last piece of equipment in the chain.

The DMX Standard uses 5 pin XLR connectors. However, it is common to see fixtures with 3 pin XLR connectors as these types of balanced or "Lo-Z" cables are common in the audio industry. In either case, pin numbers are the same and carry the same signals.

Pin	Connection			
1	Common (Shield)			
2	Data Negative (S- or Cold)			
3	Data Positive (S+ or Hot)			
4	n/c (not used)			
5	n/c (not used)			



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