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TABLE OF CONTENTS

Sk	xyBox™ EXA	1
1.	Getting Started	4
	What's In The Box? Getting It Out Of The Box Powering Up! Getting A Hold Of Us Safety Instructions (Don't run with scissors!)	4 4 4 5
2.	Meet The SkyBox™ EXA	6
	Features DMX Quick Reference The SkyBox™ EXA Pin-up Picture	6 6 7
3.	Setup	8
	Connecting A Bunch Of SkyBox [™] EXA Fixtures Data/DMX Cables Cable Connectors 3-Pin??? 5-Pin??? Huh? Take It To The Next Level: Setting up DMX Control Fixture Linking (Master/Slave Mode) Mounting/Rigging Using the AnyFi [™] Wireless DMX Receiver Using the Intelion [™] Battery System	8 9 9 10 10 11 13
4.	Operating Adjustments	14
	Navigating The Control Panel Control Panel Menu Structure DMX Mode Set the Starting DMX Address Select the DMX Channel Mode Slave Mode Auto Mode / Static Colors Speed Fade Strobe Manual Color Mixing Sound Active Mode Dimming Mode Power Output Mode Using the IR Remote Control DMX Channel Values In-Depth	14 15 16 16 16 16 16 16 17 17 17 17 17 18 19
5.	Appendix	20
	A Quick DMX Lesson Troubleshooting Keeping Your SkyBox™ EXA As Good As New Returns (Gasp!) Shipping Issues Tech Specs Dimensional Drawings	20 20 21 21 21 22 23

LITHIUM-ION BATTERY WARNINGS & INFO

YOU MUST READ THESE SAFETY INSTRUCTIONS AND WARNINGS BEFORE USING OR CHARGING YOUR FIXTURES.

LI-ION BATTERIES ARE VOLATILE. FAILURE TO READ AND FOLLOW THE BELOW INSTRUC-TIONS MAY RESULT IN FIRE, PERSONAL INJURY AND DAMAGE TO PROPERTY IF CHARGED OR USED IMPROPERLY. BY PURCHASING AND USING THESE FIXTURES, YOU ASSUME ALL RISKS ASSOCIATED WITH LITHIUM BATTERIES. IF YOU DO NOT AGREE WITH THESE CONDI-TIONS, PLEASE CONSIDER RETURNING THE FIXTURES

1. WARNING! TO REDUCE THE RISK OF INJURY AND/OR EQUIPMENT DAMAGE, DO NOT TAMPER WITH THE CHARGING CIRCUITRY IN THIS FIXTURE. The use of other types of chargers may result in personal injury or equipment damage. Under no circumstances attempt to connect the battery pack to any power supplies or other equipment that is not specifically and expressly designated for use with this model battery pack.

2. NEVER CHARGE UNATTENDED. When charging Li-Ion batteries, you must always remain in constant observation in order to react to potential problems which may occur. Failure to do so may result in fire. Put the battery in a fireproof container, and charge in an isolated area, away from flammable materials. Always have a fire extinguisher ready for emergency use.

3. USE THE LITHIUM ION BATTERY PACK ONLY WITH EQUIPMENT SPECIFICALLY AND EXPRESSLY DESIGNATED FOR USE WITH THIS MODEL BATTERY PACK. Use with other equipment may result in fire, electric shock, personal injury, and/or damage to equipment.

4. AVOID DANGEROUS CONDITIONS AND ENVIRONMENTS. Do not charge the battery pack in damp or wet conditions. Avoid using the pack in direct exposure to rain or snow. Do not use the battery pack or charger in the presence of explosive gases or flammable materials.

5. AVOID USING OR STORING THE BATTERY PACK IN EITHER EXTREME COLD OR EXTREME HOT TEMPERATURES. The battery pack will disable itself under conditions of extreme heat (above 60 °C) and may not function to full performance under conditions of extreme cold (below -20 °C). Storage at elevated temperatures (above 25 °C) will shorten the life of the battery pack.

6. DO NOT BURN OR INCINERATE BATTERY PACKS. Battery packs may explode causing personal injury, fire, and/or damage. Fumes resulting from burning of battery packs may be toxic.

7. DO NOT DROP, CRUSH, IMPACT, OR MECHANICALLY ABUSE BATTERY PACKS. Cease use of fixtures that have suffered a sharp impact, been dropped, run over, or damaged in any other way. Such impacts may cause internal damage that is not externally visible and that, over time, may cause short circuits, battery cell leakage, or other events that may lead to fire, personal injury, and or equipment damage.

8. DO NOT DISASSEMBLE BATTERY PACK. There are no user serviceable parts within battery packs. Disassembly may result in short circuiting or other damage that may cause fire, personal injury, and/or other damage.

9. AVOID CONTACT WITH BATTERY CHEMICALS. If a battery pack leaks battery chemicals, avoid any contact with skin, eyes, or mouth. In the event of contact with skin, wash immediately with soap and water and rinse with vinegar. For eye contact, begin flushing with clean water, immediately call for medical help, and continue flushing for 20 minutes or until medical help arrives.

10. STORE IN A COOL, DRY PLACE. Avoid leaving the fixture in direct sunlight, vehicle cabs, compartments, or unventilated storage buildings during hot summer conditions. Under extreme temperature conditions damage may occur. Elevated temperatures in general shorten the life of your battery pack.

1. GETTING STARTED

What's In The Box?

- 1 x SkyBox[™] EXA Fixture
- 1 x DMX Signal Cable
- 1 x Ever-So-Handy Power Cord
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on purchasing one of the most rocking box-shaped PAR fixtures anywhere! Now that you've got your SkyBox[™] EXA (or hopefully, *EXA's!*), you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Powering Up!

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch**.

AC Voltage Switch - Not all fixtures have a voltage select switch, so please verify that the fixture you receive is suitable for your local power supply. See the label on the fixture or refer to the fixture's specifications chart for more information. A fixture's listed current rating is its average current draw under normal conditions. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning! Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Ground (Earthing).

Getting A Hold Of Us

If something is wrong, please just visit our website at www.blizzardlighting. com/support and open a support ticket. We'll be happy to help, honest.

Disclaimer: The information and specifications contained in this document are subject to change without notice. Blizzard Lighting[™] assumes no responsibility or liability for any errors or omissions that may appear in this user manual. Blizzard Lighting[™] reserves the right to update the existing document or to create a new document to correct any errors or omissions at any time. You can download the latest version of this document from www.blizzardlighting.com.

Author:	Date:	Last Edited:	Date:
J. Thomas	2/18/2014	J. Thomas	6/30/2016

SAFETY INSTRUCTIONS

Please read these instructions carefully. They include important information about the installation, usage and maintenance of this product.

• Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.

• ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

- This product is intended for indoor use only.
- To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure there are no flammable materials close to the unit while operating.

• The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

• ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.

• ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its cord. Use its carrying handles.

• DO NOT operate at ambient temperatures higher than 104°F (40°C).

• In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

- NEVER connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside this unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact Blizzard Lighting via our website and open a support ticket at www.blizzardlighting.com/support.

2. MEET THE SKYBOX™ EXA LED PAR

CONTROL FEATURES

- RGBAW+UV color mixing via 7x 15W 6-in-1 LEDs
- Built-in AnyFi[™] wireless DMX receiver (Skywire[™] or W-DMX[™])
- Ultra Long-life intelion™ lithium-ion battery system
- Variable electronic dimming & strobe
- Built-in color & chase macros via DMX
- Built-in automated programs via master/slave
- Built-in sound active programs
- RGBAW+UV color mixing ability in standalone mode
- RGBAW+UV (6-Ch), RGBAW+UV/Strobe (7-Ch), RGBAW+UV/Dimmer/Strobe

(7-Ch), & Extended w/32-bit Dimmer (11-Ch) DMX Profiles

ADDITIONAL FEATURES

- Rugged and well-built (It hits the gym regularly)
- Super-quiet variable-speed internal Fan Cooling
- Dual mounting brackets for positioning flexibility
- Flicker-free constant-current 400hz LED driver
- 3-pin male input and 3-pin female output
- PowerCon[™] compatible AC power In/Out connectors

DMX Quick Reference - 11/8 Channel Modes

Channel	11-Channel	8-Channel
1	Dimmer	Dimmer
2	Red Intensity	Red Intensity
3	Green Intensity	Green Intensity
4	Blue Intensity	Blue Intensity
5	Amber Intensity	Amber Intensity
6	White Intensity	White Intensity
7	UV Intensity	UV Intensity
8	Strobe	Strobe
9	Static Colors + Auto Run	
10	Built-in Programs	
11	32-Bit Dimmer	

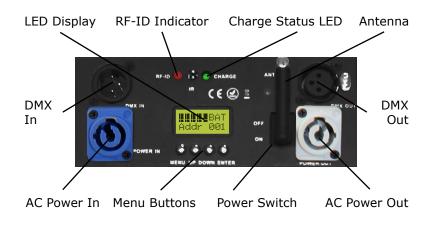
DMX Quick Reference - 7/6 Channel Modes

Channel	7-Channel	6-Channel
1	Red Intensity	Red Intensity
2	Green Intensity	Green Intensity
3	Blue Intensity	Blue Intensity
4	Amber Intensity	Amber Intensity
5	White Intensity	White Intensity
6	UV Intensity	UV Intensity
7	Strobe	

Figure 1: The SkyBox[™] EXA Pin-Up Picture







3. SETUP



Before replacing a fuse, disconnect power cord. ALWAYS replace with the same type and rating of fuse.

Fuse Replacement

CAUTION! The SkyBox[™] EXA utilizes a high-output switch-mode power supply with an internal fuse. Under normal operating conditions, the fuse should not require replacement. The fuse is field replaceable, however it is an advanced procedure suited to qualified individuals. Should your Weather System[™] fuse require replacement, please contact Blizzard Lighting for instructions, or to return for service.

Connecting A Bunch of SkyBox EXA™ Fixtures

You will need a serial data link to run light shows using a DMX-512 controller or to run shows on two or more fixtures set to sync in master/ slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Fixtures on a serial data link must be daisy chained in one single line. Also, connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal. The maximum recommended cable-run distance is 500 meters (1640 ft). The maximum recommended number of fixtures on a serial data link is 32 fixtures.

Data/DMX Cabling

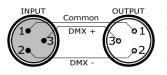
To link fixtures together you'll need data cables. You should use datagrade cables that can carry a high quality signal and are less prone to electromagnetic interference.

For instance, Belden© 9841 meets the specifications for EIA RS-485 applications. Standard microphone cables will "probably" be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

2-conductor twisted pair plus a shield Maximum capacitance between conductors – 30 pF/ft. Maximum capacitance between conductor & shield – 55 pF/ft. Maximum resistance of 20 ohms / 1000 ft. Nominal impedance 100 – 140 ohms

Cable Connectors

Cables must have a male XLR connector on one end and a female XLR connector on the other end. (Duh!)



A Word on Termination: DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practices include use of a terminator in all circumstances. If you are experiencing problems with erratic fixture behavior, especially over long signal cable runs, a terminator may help improve performance.

To build your own DMX Terminator: Obtain a 120-ohm, 1/4-watt resistor, and wire it between pins 2 & 3 of the last fixture. They are also readily available from specialty retailers.



CAUTION: Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-Pin??? 5-Pin??? Huh?!?

If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. They are widely available over the internet and from specialty retailers If you'd like to build your own, the chart below details a proper cable conversion:

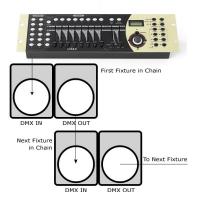
Conductor	3-Pin Female (Output)	5-Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
DMX Data (-)	Pin 2	Pin 2
DMX Data (+)	Pin 3	Pin 3
Not Used.	No Connection.	No Connection.
Not Used.	No Connection.	No Connection.

Take It To The Next Level: Setting Up DMX Control

Step 1: Connect the male connector of the DMX cable to the female connector (output) on the controller.

Step 2: Connect the female connector of the DMX cable to the first fixture's male connector (input). *Note:* It doesn't matter which fixture address is the first one connected. We recommend connecting the fixtures in terms of their proximity to the controller, rather than connecting the lowest fixture number first, and so on.

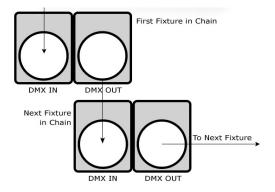
Step 3: Connect other fixtures in the chain from output to input as above. Place a DMX terminator on the output of the final fixture to ensure best communication.



Fixture Linking (Master/Slave Mode)

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.

2. Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.



A quick note: Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondarily, the fixtures that follow may also require a slave setting.

Check the **"Operating Adjustments**" section in this manual for complete instructions for this type of setup and configuration.

Mounting & Rigging

This fixture may be mounted in any SAFE position provided there is enough room for ventilation.

It is important never to obstruct the fan or vents pathway. Mount the fixture using a suitable "C" or "O" type clamp. The clamp should be rated to hold at least 10x the fixture's weight to ensure structural stability. Do not mount to surfaces with unknown strength, and ensure properly "rated" rigging is used when mounting fixtures overhead.

Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

• When selecting installation location, take into consideration lamp replacement access (if applicable) and routine maintenance.

- Safety cables MUST ALWAYS be used.
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

Using the AnyFi™ Wireless DMX Receiver

In addition to the unbridled thrill you already received the first time you turned on your fixture, you'll be delighted to know that your fixture is equipped to work seamlessly with our own Skywire[™] 2.4GHz wireless DMX products, as well as W-DMX[™] wireless products.

Skywire[™] AnyFi[™] wireless DMX products feature 512 autoassigning frequencies in either 6 or 7 groups allowing multiple systems to run simultaneously in the same space, completely free of interference, with reliable wireless communication for over 1000 feet line-of-sight! Using the W-DMX[™] wireless protocol in AnyFi[™], you can expect the same outstanding wireless range, very easy setup, and leave any worries behind concerning loss of signal of



easy setup, and leave any worries behind concerning loss of signal due to its built-in FHSS technology (Frequency Hopping Spread Spectrum).

So first, if you would like to use Skywire[™] wireless DMX protocol, you will need a wiCICLE® transmitter, Lightcaster[™] transceiver, or any Blizzard Lighting controller with this type of built-in wireless transmitter. And if you plan on using W-DMX[™] 2.4GHz wireless protocol, you will need a W-DMX[™] transceiver to broadcast the signal from your controller, such as our Lightcaster W-DMX[™].

Ready to move on? Well alrighty!

IMPORTANT - If you are using Blizzard's Lightcaster Any-Fi wireless transmitter in W-DMX compatibility mode along with DMX control software like our Eclipse DMX or Lucid products, you must set the MAB (Mark After Break) in the software to 30 microseconds (µS) to avoid potential signal timing issues.

1.) Set the Fixture to Receive Wireless Signal in the Control Panel

a.) Navigate the main menu to reach **Signal**, press **<ENTER>**. Now use the **<UP**/ **DOWN>** buttons to highlight **2.4G** (wireless mode), and press **<ENTER>** to confirm.

2.) Select W-DMX[™] or Skywire[™] Modes

- a.) Make sure the device you are using to transmit signal with is powered on.
- b.) Navigate the main menu to reach WIRELESS, press <ENTER>.
- c.) Now use the **<UP/DOWN>** buttons to highlight **KEY**, and press **<ENTER>**.

d.) At this point, please note that every time you press the **<ENTER>** button, the wireless LED status indicator changes between 4 colors (*currently 3 are functional*):

- **GREEN:** W-DMX[™] 2.4 GHz Receiver Mode
- **YELLOW:** Skywire[™] 7CH Receiver Mode (wiCICLE[™] & LightCaster Compatible)
- **RED:** Skywire[™] 6CH Receiver Mode (AnyFi[™] Transmitter Compatible)

*Note: The top level **BLUE** channel mode currently has no function.

e.) While the LED indicator is illuminated in **GREEN** (*for W-DMX*), **YELLOW** (*for Skywire 7CH*), or **RED** (*for Skywire 6CH*) press and hold the **<ENTER>** button for **1 second** to confirm and save. Press and hold **<ENTER>** for **3 seconds** to disconnect.

For W-DMX[™] connections, you should be done. The fixture will detect the signal!

***For Skywire**[™] wireless connections, continue to **Step 5** on the next page.

3.) Resetting The Wireless

Note: You should reset the wireless before setting up a new types of connections on previously connected fixture.

a.) Navigate the main menu to reach **WIRELESS**, press **<ENTER>**.

- a.) Use the **<UP/DOWN>** buttons to highlight **RESET**, and press **<ENTER>**.
- b.) From here, you can use the **<UP/DOWN>** buttons to highlight **YES** or **NO** and press **<ENTER>** to reset the current wireless setup.

4.) Successful W-DMX[™] Connections

The LED status indicator will blink, then turn white if searching for a signal. When a signal connection is established, the LED on the fixture will be solid **GREEN**, if signal is lost the LED will flash **RED**.

W-DMX[™] Setup Examples:

1.) One transceiver with multiple receiver setups:

a.) Power on all units.

b.) On the receiving W-DMX fixtures, follow the previous instructions to pair them with the transmitting unit.

2.) Multiple transceiver setups, with multiple receivers; e.g. 3 groups consisting of a transceiver & receiver(s) named A, B, and C:

- a.) Turn power off of all units.
- b.) Group "A" gets powered on, then follow step 1 above.
- c.) Group "B" gets powered on, then follow step 1 above.
- d.) Group "C" gets powered on, then follow step 1 above.

5.) Skywire[™] 6/7-Channel Modes: Selecting the Channel Group

1. After selecting either Skywire[™] Mode in **Step 2** on the previous page, the fixture is now ready and waiting for your input to select the frequency group to match that of your transmitting source.

a	Press the	<enter></enter>	hutton r	eneatedly	/ to	scroll	through	the	channel	arouns
a.	FIESS LIE	LINI LK/	Dutton	epeateur	10	SCIUII	unouyn	uie	Channel	groups.

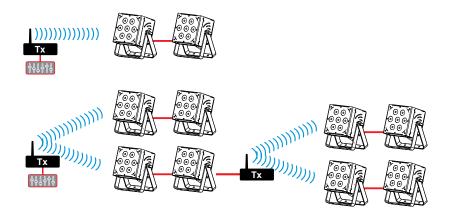
Top Menu LED Color	Mode	Channel LED Color		Information
			CH1	
			CH2	These 6 color coded channels
	Skywire™ 6CH		CH3	match perfectly with other AnyFi™
	(AnyFi ^m products only)		CH4	wireless products while using Skywire™ 6CH mode.
			CH5	Skywire och mode.
			CH6	
	W-DMX Receive (G3 or G4)			
			CH1	
			CH2	These channel numbers correspond
	Skywire™ 7CH (wiCICLE™ compatible)		CH3	to the "GROUP" settings on
			CH4	our LightCaster™ wireless DMX transceiver, and the colored
			CH5	channels match all wiCICLE [™] and
			CH6	Skywire™ wireless products.
			CH7	

b.) While your chosen group number/color is illuminated on the status LED, press and hold the **<ENTER>** button for 3 seconds.

- The LED on the transmitter will blink RED slowly until communication is established with the receiver. The status LED on the receiving fixtures will be illuminated in the color of the group that it is set on until communication is established.
- 3. Once the clearest channel is auto-selected, the status LEDs will blink quickly on both the transmitter and receiver. NOTE: The color of the status LED DURING operation does not indicate channel group, instead it indicates whether the unit is transmitting or receiving. **That's It!**

Possible Configurations

The diagrams below show possible configurations. Multiple units may be used in any possible configuration.



Using the Intelion[™] Battery System

The SkyBox[™] EXA features our proprietary Intelion[™] Lithium-Ion internal battery system which allows you the flexibility to operate your fixture without AC power for up to 20 hours.

To charge the battery, simply plug the fixture into a power source. The battery will charge weather the fixture is powered on or off. It will even charge while in use! The built-in microprocessor of the battery system controls the charge and overall battery health, so all you need to do is plug and play.

The top section on the LCD display menu shows the battery power level indicator displays the approximate amount of power remaining in the battery. Each power level bar equals 20%. When charging, The CHARGE status LED above the LCD display will illuminate in **RED**, then turn **GREEN** when the charge is complete.



A full charge is obtained after charging for at least 4 hours. The fixture will automatically stop charging when the battery is in optimal condition.

Power Output Mode:

Depending on the needs of any given application, you can select either High Power, Medium Power, or Battery Saver Mode, which allows the fixture to run for a longer time at lower output.

- a.) Navigate the menu to reach BATMOD, and press <ENTER>.
- b.) Use the **<UP/DOWN>** buttons to select **H** (100%), **M** (75%) or L (50%).
- c.) Press **<ENTER>** to confirm the setting.

Note: With average usage of color fades in *High Output Mode*, you can expect the battery life to last up to 10+ hours, color jumping 5+ hrs, or full on for 3+ hrs. Display color/fade/chase/ strobe, and environmental factors including ambient temperature will all impact battery life.

4. OPERATING ADJUSTMENTS

The Control Panel

All the goodies and different modes possible with the SkyBox[™] EXA are accessed by using the control panel on the rear of the fixture. There are 4 control buttons below the LCD display which allow you to navigate through the various control panel menus.

<MENU>

Is used to navigate to the previous higher-level menu item.

<UP>

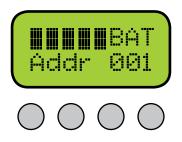
Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.

<ENTER>

Is used to select and confirm/store the current selection.



MENU UP DOWN ENTER

The Control Panel LCD Display shows the menu items you select from the menu map on page #15. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<ENTER>**.

Press the **<MENU>** button repeatedly until you reach the desired menu function. Use the **<UP>** and **<DOWN>** buttons to navigate the menu options. Press the **<ENTER>** button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu, press the **<MENU>** button.

Control Panel Menu Structure

Addr	<enter></enter>	To choose a DMX address from 001-512		
CHnd	11CH	11-channel DMX mode		
	8CH	8-channel DMX mode		
	7CH	7-channel DMX mode		
	6CH	6-channel DMX mode		
Auto	0-63	Static Colors (0-62) & Auto Mode (63)		
Speed	0-15	Built-in Program Speed (fast <> slow)		
Fade	0-15	Fade Speed (fast <> slow)		
Strobe	0-15	Strobe speed (slow <> fast)		
Manual	Red	Red dimmer (0% <> 100%)		
	Green	Green dimmer (0% <> 100%)		
	Blue	Blue dimmer (0% <> 100%)		
	Amber	Amber dimmer (0% <> 100%)		
	White	White dimmer (0% <> 100%)		
	UV	UV dimmer (0% <> 100%)		
Sound	<enter></enter>	Sound active mode		
Dimmer	LIN	Linear dimming curve		
	LIN.	Linear dimming curve (smooth)		
	SQR.	Square law curve (smooth)		
	ISQR.	Inverse square law curve (smooth)		
	SCUR.	S-curve (smooth)		
Signal	Cable	Choose signal type: cable		
	2.4G	Choose signal type: wireless		
Wireless	Reset	Wireless Reset (YES/NO)		
	Кеу	KEY desired wireless mode (color coded LED)		
Bat Mode	<enter></enter>	Battery output: High/Middle/Low		
Info	Software	Software version information		
	Power	Current auto overheat protection: (xxx%)		
Load	YES/NO	Restore factory settings		

DMX Mode

Allows the unit to be controlled by any universal DMX controller.

Tip: Push the <MENU> button repeatedly to scroll through all of the top tier menu items.

Set the Starting DMX Address:

The default mode for the fixture is DMX, so the first menu item that you can edit is the starting DMX address.

- 1.) Navigate the menu using the **<MENU>** button until you reach **Addr**.
- 2.) Use the <UP/DOWN> buttons to select a DMX channel from 001-512.
- 3.) Press the **<ENTER>** button to confirm.

Select the DMX Channel Mode:

- 1.) Navigate the menu using the **<MENU>** button until you reach **CHnd**.
- 2.) Use the **<UP/DOWN>** buttons to select either **6CH**, **7CH**, **8CH**, or **11CH** mode.
- 3.) Press the **<ENTER>** button to confirm.

Slave Mode: Set slave fixtures to: **Addr: 001, 7CH** mode to ensure correct reception of master signals. The master will be the 1st fixture in the DMX chain.

Auto Mode / Static Colors

1.) Navigate the menu using the **<MENU>** button until you reach **AUTO**.

2.) Use the **<UP/DOWN>** buttons to select any preset color from **0-62**, or select **63** to automatically run through all of the colors.

3.) If you choose auto run, you can then adjust the color change speed, or adjust the color fade speed.

Speed:

a.) Press the **<MENU>** button until you reach the **Speed** menu item.
b.) Then use the **<UP/DOWN>** buttons to select a speed setting from **0-15** (fast <--> slow).

c.) Press the **<ENTER>** button to confirm.

Fade:

a.) Press the **<MENU>** button until you reach the **Fade** menu item.
b.) Then use the **<UP/DOWN>** buttons to select a speed setting from **0-15** (fast <--> slow).

c.) Press the **<ENTER>** button to confirm.

63 Preset Colors:

00	Red	21	Red+Green+Blue	42	Red+Green+Blue+White
01	Green	22	Red+Green+Amber	43	Red+Green+Blue+UV
02	Blue	23	Red+Green+White	44	Red+Green+Amber+White
03	Amber	24	Red+Green+UV	45	Red+Green+Amber+UV
04	White	25	Red+Blue+Amber	46	Red+Green+White+UV
05	UV	26	Red+Blue+White	47	Red+Blue+Amber+White
06	Red+Green	27	Red+Blue+UV	48	Red+Blue+Amber+UV
07	Red+Blue	28	Red+Amber+White	49	Red+Blue+White+UV
08	Red+Amber	29	Red+Amber+UV	50	Red+Amber+White+UV
09	Red+White	30	Red+White+UV	51	Green+Blue+Amber+White
10	Red+UV	31	Green+Blue+Amber	52	Green+Blue+Amber+UV
11	Green+Blue	32	Green+Blue+White	53	Green+Blue+White+UV
12	Green+Amber	33	Green+Blue+UV	54	Green+Amber+White+UV
13	Green+White	34	Green+Amber+White	55	Blue+Amber+White+UV
14	Green+UV	35	Green+Amber+UV	56	Red+Green+Blue+Amber+White
15	Blue+Amber	36	Green+White+UV	57	Red+Green+Blue+Amber+UV
16	Blue+White	37	Blue+Amber+White	58	Red+Green+Blue+White+UV
17	Blue+UV	38	Blue+Amber+UV	59	Red+Green+Amber+White+UV
18	Amber+White	39	Blue+White+UV	60	Red+Blue+Amber+White+UV
19	Amber+UV	40	Amber+White+UV	61	Green+Blue+Amber+White+UV
20	White+UV	41	Red+Green+Blue+Amber	62	All Colors: R+G+B+A+W+UV

Strobe (White)

- 1.) Navigate the menu using the **<MENU>** button until you reach **Strobe**.
- 2.) Use the **<UP/DOWN>** buttons to select the strobe speed from **00-15**.
- 3.) Press the **<ENTER>** button to confirm.

Manual Color Mixing:

Mix your own custom colors using the R/G/B/A/W/UV intensity level setting.

Red:

- 1.) Navigate the menu to Manual <ENTER>, and then Red <ENTER>.
- 2.) Use the **<UP/DOWN>** buttons to adjust red **000-255.** (0% <--> 100%).
- 3.) Press the **<ENTER>** button to confirm.

Green:

- 1.) Navigate the menu to Manual <ENTER>, and then Green <ENTER>.
- 2.) Use the **<UP/DOWN>** buttons to adjust green **000-255.** (0% <--> 100%).
- 3.) Press the **<ENTER>** button to confirm.

Blue:

- 1.) Navigate the menu to Manual <ENTER>, and then Blue <ENTER>.
- 2.) Use the **<UP/DOWN>** buttons to adjust blue **000-255.** (0% <--> 100%).
- 3.) Press the **<ENTER>** button to confirm.

Amber:

- 1.) Navigate the menu to Manual <ENTER>, and then Amber <ENTER>.
- 2.) Use the **<UP/DOWN>** buttons to adjust amber: **000-255.** (0% <--> 100%).
- 3.) Press the **<ENTER>** button to confirm.

White:

- 1.) Navigate the menu to Manual <ENTER>, and then White <ENTER>.
- 2.) Use the **<UP/DOWN>** buttons to adjust white **000-255.** (0% <--> 100%).
- 3.) Press the **<ENTER>** button to confirm.

UV:

- 1.) Navigate the menu to Manual <ENTER>, and then UV <ENTER>.
- 2.) Use the **<UP/DOWN>** buttons to adjust UV **000-255.** (0% <--> 100%).
- 3.) Press the **<ENTER>** button to confirm.

Sound Active Mode

- 1.) Navigate the menu using the **<MENU>** button until you reach **Sound**.
- 2.) Press the **<ENTER>** button to confirm.

Dimming Mode

Select from 5 different dimming curve choices. These each allow for different amounts of steps to achieve smoother (and slower) dimming capabilities.

- 1.) Navigate the menu using the **<MENU>** button until you reach **Dimmer.**
- 2.) Use the **<UP/DOWN>** buttons to select your choice:
 - Mode 0: LIN (Linear, not smooth)
 - Mode 1: LIN. (Linear, smooth)
 - Mode 2: SQR. (Square law, smooth)
 - Mode 3: ISQR. (Inverse square law, smooth)
 - Mode 4: SCUR. (S-curve, smooth)
- 3.) Press the **<ENTER>** button to confirm.

Power Output Mode

- 1.) Navigate the menu using the **<MENU>** button until you reach **BAT MODE**.
- 2.) Select either High (100%), Medium (75%) or Low (50%).
- 3.) Press the **<ENTER>** button to confirm.

Using the IR Remote Control (sold separately)

All the goodies and different modes possible with the SkyBox[™] EXA can be accessed by using the IR remote control **(sold separately)**.

The IR remote control is simple to use. It offers the same functionality of the LED control panel, with the addition of quick access shortcut buttons.

<MENU>

Used to navigate to the previous higher-level menu item.

<UP>

Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.

<ENTER>

Is used to select and confirm/store the current selection.

<R1>, <G1>, <B1>, <A1>, <W1>, <UV1>

Shortcut keys used to access the color settings for Red, Green, Blue, Amber, White, and UV.

<STROBE>

Shortcut key used to access strobe settings. After pressing this button you can use the **<UP/DOWN>** and **<ENTER>** buttons to modify the strobe (slow <--> fast).

<AUTO>

Shortcut key used to access auto mode settings. After pressing this button you can use the **<UP/DOWN>** and **<ENTER>** buttons to access its built-in auto programs.

<SOUND>

Shortcut key used to access sound active mode.

<SPEED>

Shortcut key used to access speed settings. After pressing this button you can use the **<UP/DOWN>** and **<ENTER>** buttons to select a speed value (fast <--> slow).

<CLEAR>

This will clear the modified values of **<R1>**, **<G1>**, **<B1>**, **<A1>**, **<W1>**, **<UV1>**, **<STROBE>**, and reset the fixture.

*Some of the buttons on this remote are reserved for future use.



Ch.	Value		What It Does			
1	000 <> 25	5	Dimmer (0% <> 100%)			
2	000 <> 25	5	Red Intensity	/ (0% <> 10	0%)	
3	000 <> 25	5	Green Intens	sity (0% <>	100%)	
4	000 <> 25	5	Blue Intensit	y (0% <> 1	0%)	
5	000 <> 25	5	Amber Inten	sity (0% <>	100%)	
6	000 <> 25	5	White Intens	ity (0% <>	100%)	
7	000 <> 25	5	UV Intensity	(0% <> 100	0%)	
8	000 <> 01 011 <> 25		No Function Strobe Speed	d (slow <> fa	ast)	
9	Value	What It Does	Value	What It Does	Value	What It Does
	$\begin{array}{c} 000 <> 015 \\ 016 <> 018 \\ 019 <> 021 \\ 022 <> 024 \\ 025 <> 027 \\ 028 <> 030 \\ 031 <> 033 \\ 034 <> 033 \\ 034 <> 039 \\ 040 <> 042 \\ 043 <> 045 \\ 046 <> 048 \\ 049 <> 051 \\ 055 <> 054 \\ 055 <> 054 \\ 055 <> 060 \\ 061 <> 063 \\ 064 <> 069 \\ 070 <> 075 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 070 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 076 <> 078 \\ 070 <> 078 \\ 076 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 \\ 070 <> 078 $	Dimming R G B V UV R+G R+B R+A R+W G+B G+A G+W G+B G+V B+A B+W B+UV A+W A+UV W+UV	$\begin{array}{c} 079 < \cdots > 081 \\ 082 < \cdots > 084 \\ 085 < \cdots > 087 \\ 088 < \cdots > 090 \\ 091 < \cdots > 093 \\ 094 < \cdots > 099 \\ 100 < \cdots > 102 \\ 103 < \cdots > 105 \\ 106 < \cdots > 108 \\ 109 < \cdots > 101 \\ 112 < \cdots > 114 \\ 115 < \cdots > 117 \\ 118 < \cdots > 120 \\ 121 < \cdots > 123 \\ 124 < \cdots > 126 \\ 127 < \cdots > 123 \\ 133 < \cdots > 133 \\ 136 < \cdots > 131 \\ 136 < \cdots > 131 \\ 142 < \cdots > 141 \\ 142 < \cdots > 144 \end{array}$	$\begin{array}{l} R+G+B \\ R+G+A \\ R+G+UV \\ R+B+A \\ R+B+W \\ R+B+UV \\ R+A+UV \\ R+A+UV \\ R+A+UV \\ R+A+UV \\ G+B+A \\ G+B+W \\ G+A+UV \\ G+A+UV \\ B+A+UV \\ A+W+UV \\ A+G+B+A \\ R+G+B+W \end{array}$	$\begin{array}{r} 145 < \longrightarrow 147\\ 148 < \cdots > 150\\ 151 < \cdots > 153\\ 154 < \cdots > 153\\ 154 < \cdots > 155\\ 165 < \cdots > 155\\ 166 < \cdots > 162\\ 163 < \cdots > 165\\ 166 < \cdots > 161\\ 172 < \cdots > 171\\ 172 < \cdots > 174\\ 175 < \cdots > 177\\ 178 < \cdots > 180\\ 181 < \cdots > 180\\ 184 < \cdots > 182\\ 184 < \cdots > 192\\ 193 < \cdots > 192\\ 193 < \cdots > 192\\ 193 < \cdots > 192\\ 196 < \cdots > 198\\ 199 < \cdots > 198\\ 199 < \cdots > 201\\ 202 < \cdots > 204\\ 205 < \cdots > 255\\ \end{array}$	$\begin{array}{l} R+G+B+UV\\ R+G+A+W\\ R+G+A+W\\ R+B+A+W\\ R+B+A+W\\ R+B+A+W\\ R+B+A+W\\ C+B+A+W\\ G+B+A+UV\\ G+B+A+W\\ G+B+A+UV\\ G+B+A+W+UV\\ B+A+W+UV\\ B+A+W+UV\\ R+G+B+A+W\\ R+G+B+A+W\\ R+G+A+W+UV\\ R+G+A+W+W+W\\ R+G+A+W+W\\ R+G+A+W+W\\ R+G+A+W+W\\ R+G+A+W+W\\ R+G+A+W\\ R+G+A+W+W\\ R+G+A+W+W\\ R+G+A+W+W\\ R+G+A+W\\ R+G+A+W\\ R+G+W\\ R+G+A+W\\ R+G+A+W\\ R+G+W\\ R+G+A+W\\ R+G+W\\ R+G+W\\ R+G+A+W\\ R+G+A+W\\ R+G+W\\ R+W\\ R+G+W\\ R+G+W\\ R+W$
10	000 <> 01 016 <> 25 251 <> 25	0	No Function Color Fade (s Sound Active	slow <> fast)	
11	000 <> 00 006 <> 05 056 <> 10 106 <> 15 156 <> 20 206 <> 25	5 5 5 5	Mode 0: Line Mode 1: Line Mode 2: Squ	control menu ar, not smooth ar, smooth are law, smoo erse square law	th	

DMX Values In-Depth (11-Channel Mode)

DMX Values In-Depth (8/7/6-Channel Modes)

8CH	7CH	6CH	Value	What It Does
1			000 <> 255	Dimmer (0% <> 100%)
2	1	1	000 <> 255	Red Intensity (0% <> 100%)
3	2	2	000 <> 255	Green Intensity (0% <> 100%)
4	3	3	000 <> 255	Blue Intensity (0% <> 100%)
5	4	4	000 <> 255	Amber Intensity (0% <> 100%)
6	5	5	000 <> 255	White Intensity (0% <> 100%)
7	6	6	000 <> 255	UV Intensity (0% <> 100%)
8	7		000 <> 010 011 <> 255	No Function Strobe Speed (1-20Hz)

5. APPENDIX

A Quick Lesson On DMX

DMX (aka DMX-512) was created in 1986 by the United States Institute for Theatre Technology (USITT) as a standardized method for connecting lighting consoles to lighting dimmer modules. It was revised in 1990 and again in 2000 to allow more flexibility. The Entertainment Services and Technology Association (ESTA) has since assumed control over the DMX512 standard. It has also been approved and recognized for ANSI standard classification.

DMX covers (and is an abbreviation for) Digital MultipleXed signals. It is the most common communications standard used by lighting and related stage equipment.

DMX provides up to 512 control "channels" per data link. Each of these channels was originally intended to control lamp dimmer levels. You can think of it as 512 faders on a lighting console, connected to 512 light bulbs. Each slider's position is sent over the data link as an 8-bit number having a value between 0 and 255. The value 0 corresponds to the light bulb being completely off while 255 corresponds to the light bulb being fully on.

DMX data is transmitted at 250,000 bits per second using the RS-485 transmission standard over two wires. As with microphone cables, a grounded cable shield is used to prevent interference with other signals.

There are five pins on a DMX connector: a wire for ground (cable shield), two wires for "Primary" communication which goes from a DMX source to a DMX receiver, and two wires for a "Secondary" communication which goes from a DMX receiver back to a DMX source. Generally, the "Secondary" channel is not used so data flows only from sources to receivers. Hence, most of us are most familiar with DMX-512 as being employer over typical 3-pin "mic cables," although this does not conform to the defined standard.

DMX is connected using a daisy-chain configuration where the source connects to the input of the first device, the output of the first device connects to the input of the next device, and so on. The standard allows for up to 32 devices on a single DMX link.

Symptom	Solution		
Fixture Auto-Shut Off	Check the fan in the fixture. If it is stopped or moving slower than normal, the unit may have shut itself off due to high heat. This is to protect the fixture from overheating.		
No Light Output Check to ensure fixture is operating under correct mode, IE sound active/auto/DMX/Etc., if applicable.			
Chase Speed Too Fast/Slow	Check to ensure proper setup of speed adjustment.		
No Power	Check fuse, AC cord and circuit for malfunction.		
Blown Fuse	Check AC cord and circuit for damage, verify that moving parts are not restricted and that unit's ventilation is not obstructed		
No Response to Audio	Verify that the fixture is in "Sound Active" mode. Adjust Audio Sensitivity, If Applicable.		
Fixture Not Responding / Responding Er- ratically	Make sure all connectors are seated properly and securely. Use Only DMX Cables and/or check cables for defects Install a Terminator. Reset fixture(s).		

Troubleshooting

Keeping Your SkyBox™ EXA As Good As New

The fixture you've received is a rugged, tough piece of pro lighting equipment, and as long as you take care of it, it will take care of you. That said, like anything, you'll need to take care of it if you want it to operate as designed. You should absolutely keep the fixture clean, especially if you are using it in an environment with a lot of dust, fog, haze, wild animals, wild teenagers or spilled drinks.

Cleaning the optics routinely with a suitable glass cleaner will greatly improve the quality of light output. Keeping the fans free of dust and debris will keep the fixture running cool and prevent damage from overheating.

In transit, keep the fixtures in cases. You wouldn't throw a prized guitar, drumset, or other piece of expensive gear into a gear trailer without a case, and similarly, you shouldn't even think about doing it with your shiny new light fixtures.

Common sense and taking care of your fixtures will be the single biggest thing you can do to keep them running at peak performance and let you worry about designing a great light show, putting on a great concert, or maximizing your client's satisfaction and "wow factor." That's what it's all about, after all!

Returns (Gasp!)

We've taken a lot of precautions to make sure you never even have to worry about sending a defective unit back, or sending a unit in for service. But, like any complex piece of equipment designed and built by humans, once in a while, something doesn't go as planned. If you find yourself with a fixture that isn't behaving like a good little fixture should, you'll need to obtain a Return Authorization (RA).

Don't worry, this is easy. Just open a support ticket at www.blizzardlighting. com/support and we'll issue you an RA. Then, you'll need to send the unit to us using a trackable, pre-paid freight method. We suggest using USPS Priority or UPS. Make sure you carefully pack the fixture for transit, and whenever possible, use the original box & packing for shipping.

When returning your fixture for service, be sure to include the following:

- 1.) Your contact information (Name, Address, Phone Number, Email address).
- 2.) The RA# issued to you
 - 3.) A brief description of the problem/symptoms.

We will, at our discretion, repair or replace the fixture. Please remember that any shipping damage which occurs in transit to us is the customer's responsibility, so pack it well!

Shipping Issues

Damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.

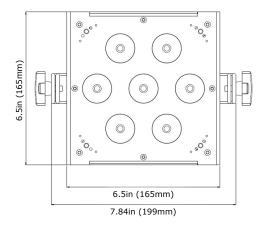
Tech Specs!

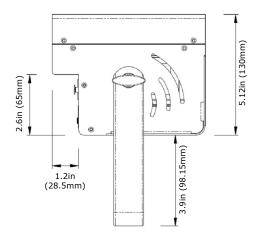
Weight & Dimensions	
Width	6.5 inches (165 mm)
Depth	5.12 inches (130 mm)
Height	6.5 inches (165 mm)
Weight	9.3 lbs (4.5 kg)
Power	
Operating Voltage	100-264VAC, 47-63 Hertz
Power Consumption	84W, 13A
Light Source	
LED	7x 15W 6-in-1 LEDs 100,000 hours.
Optical	
Beam Angle	25 degree optics standard 26 degree beam 30 degree field
Luminous Intensity	10,300 Lux @ 1m, 2,850 @ 2m
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Control	
Protocol	USITT DMX-512
DMX Channels	6/7/8/11
Input	3-pin XLR Male
Output	3-pin XLR Female
Other Operating Modes	Standalone, Master/Slave, Sound Active, Color Preset
Fun Fact	
You can get herpes from sharing a drink.	
Warranty	2-year limited warranty, does not cover malfunc- tion caused by damage to LEDs.

DISCLAIMER:

The power connector fitted to the fixture and fixture cord are designed for compatibility with products manufactured by Neutrik AG, Neutrik USA and their related entities, however they are not manufactured by, affiliated with or endorsed by Neutrik AG, Neutrik USA, or any related entity. Neutrik® and powerCON® are registered trademarks of Neutrik AG.

Dimensional Drawings







Enjoy your product! Our sincerest thanks for your purchase! --The team @ Blizzard Lighting