LB Hex™ ALLOY



blizzard

Blizzard Lighting, LLC
http://www.blizzardpro.com
Waukesha, WI USA
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1. GETTING STARTED

What's In The Box?

- 1x LB™ Hex Alloy LED Fixture
- 1x AC Power Cord
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on purchasing the LB™ Hex Alloy. Now that you've got your fixture, 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 Compatibility - Confirm that the product's power requirements align with your local power supply before use. Refer to the product's label or the specifications chart provided with the product for details. The current rating listed represents the average current draw under normal conditions.

Warning! ***Verify the product's compatibility with your area's line voltage to avoid damage. Ensure that all connections are made to circuits that provide proper grounding (earthing).***

Getting A Hold Of Us

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

Disclaimer: The information contained in this document is subject to change without notice. Blizzard Lighting™ assumes no responsibility or liability for any errors or omissions that may appear in this user manual. We reserve the right to update the existing document or create a new one to correct any errors or omissions. You can download the latest version of this document from www.blizzardpro.com.

Author:	Date:	Last Edited:	Date:
J. Thomas	6/10/2025	J. Thomas	6/2/2026

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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 head. 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 the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please open a support ticket at www.blizzardpro.com/support.

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2. MEET THE LB™ HEX ALLOY

Main Features

- RGBAW+UV color mixing via 18x 18W 6-in-1 LEDs
- 59 static colors including 32 popular Rosco® matched presets
- CCT (2000K-5700K) via DMX
- 25-degree beam angle
- Flicker-free constant-current LED driver
- Auto and sound active modes + 12 selectable built-in programs
- 5-pin male/female XLR input & output connections
- PowerCON® TRUE1™ compatible power in/out
- Mounting bracket for versatile mounting or stable freestanding

Control

- Protocols: DMX-512, RDM
- DMX channels: 6/8/11-channel modes
- 4-button LED control menu
- Operating modes: DMX, M/S, auto, sound active

DMX Quick Reference (6-Channel Mode)

Channel	What is does...
1	Red Intensity (0% <-> 100%)
2	Green Intensity (0% <-> 100%)
3	Blue Intensity (0% <-> 100%)
4	Amber Intensity (0% <-> 100%)
5	White Intensity (0% <-> 100%)
6	UV Intensity (0% <-> 100%)

DMX Quick Reference (8-Channel Mode)

Channel	What is does...
1	Dimmer (0% <-> 100%)
2	Strobe (slow <-> fast)
3	Red Intensity (0% <-> 100%)
4	Green Intensity (0% <-> 100%)
5	Blue Intensity (0% <-> 100%)
6	Amber Intensity (0% <-> 100%)
7	White Intensity (0% <-> 100%)
8	UV Intensity (0% <-> 100%)

DMX Quick Reference (11-Channel Mode)

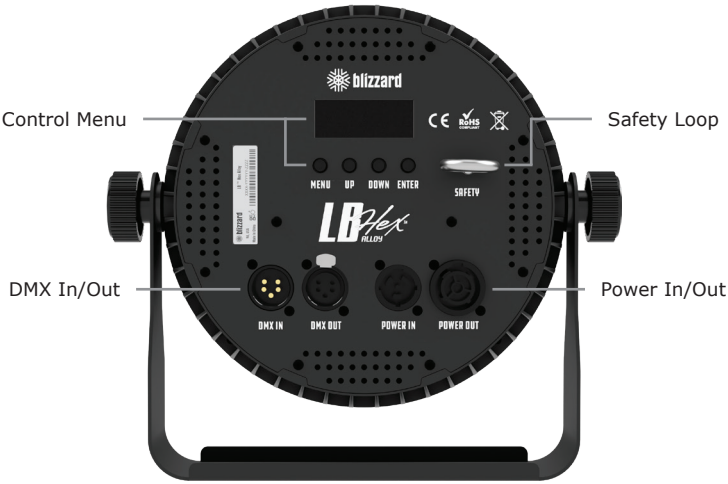
Channel	What is does...
1	Dimmer (0% <-> 100%)
2	Strobe (slow <-> fast)
3	Built-In Programs, Auto Modes, Sound Active Modes
4	Auto Program Speed (slow <-> fast)
5	Red Intensity (0% <-> 100%)
6	Green Intensity (0% <-> 100%)
7	Blue Intensity (0% <-> 100%)
8	Amber Intensity (0% <-> 100%)
9	White Intensity (0% <-> 100%)
10	UV Intensity (0% <-> 100%)
11	CCT (2000K-5700K)

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Figure 1: LB™ Hex Alloy Pin-Up Picture



Figure 2: Rear Connections



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3. SETUP



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

Fuse Replacement

This fixture utilizes a high-output switch-mode power supply with an internal fuse. Under normal conditions, the fuse should not require replacement. Should your fixture require fuse replacement, please contact us for instructions.

Connecting A Bunch of LB™ Hex Alloy 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 a single line. Also, connecting more than 32 fixtures on one serial data link without the use of an optically-isolated DMX splitter may result in deterioration of DMX signal. The maximum recommended cable-run distance is 500 meters (1640 ft).

Data/DMX Cabling

To link fixtures together you'll need data cables. You should use data-grade 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:

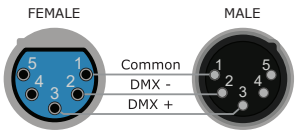
- *2-conductor twisted pair plus a shield*
- *Maximum capacitance between conductors – 30 pF/ft.*
- *Maximum capacitance between conductor & shield – 55 pF/ft.*
- *Maximum resistance of 20 ohms / 1000 ft.*
- *Nominal impedance 100 – 140 ohms*

Disclaimer: The power connectors 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.

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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 3-pin DMX output connector, you will need to use a 3-pin to 5-pin adapter. 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
Data 1- (Primary Data)	Pin 2	Pin 2
Data 1+ (Primary Data)	Pin 3	Pin 3
Data 2- (Optional)	--	Pin 4 - Do Not Use
Data 2+ (Optional)	--	Pin 5 - Do Not Use

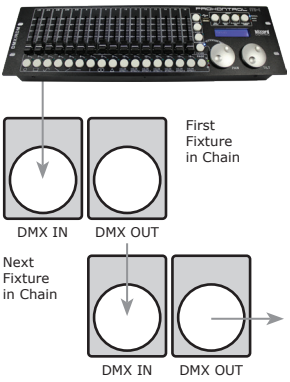
Take It To The Next Level: Setting Up DMX Control

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.

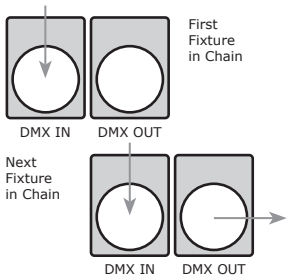
Step 3: Connect other fixtures in the chain from output to input as above. Place a DMX terminator on the output of the final fixture to ensure best communication.



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Fixture Linking (M/S Mode)

1. Connect the male connector side of the DMX cable to the output female connector of the first fixture.



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

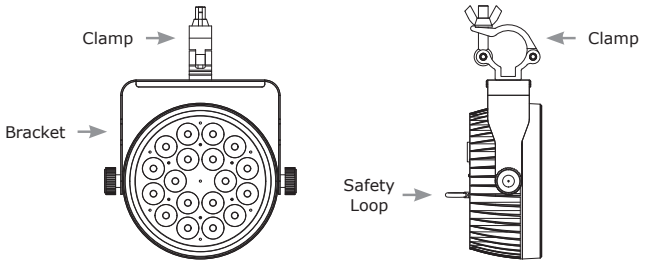
A quick note: Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondarily, the fixtures that follow may also require a slave setting.

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. The fan or vent pathway must never be obstructed.

IMPORTANT: Regardless of the rigging option you choose for your fixtures, always be sure to secure your fixture with a safety cable.



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 of unknown strength, and ensure properly rated rigging is used when mounting fixtures overhead.

Overhead mounting requires extensive experience, which includes calculating working load limits, knowledge of the installation material being used, and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself.

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4. OPERATING ADJUSTMENTS

The Control Panel

All the features and different modes possible with the LB™ Hex Alloy are accessed by using the control panel on the rear of the fixture. There are 4 control buttons which allow you to navigate through the various control panel menus.

<MENU>

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

<ENTER>

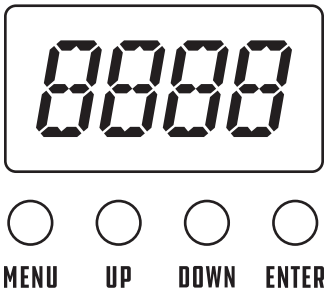
Is used to select and confirm/store the current selection.

<UP>

Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.



The control panel display shows the menu items you select from the menu map on page #11. 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>**.

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 without changing the value, press the **<MENU>** button.

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Control Panel Menu Structure

Addr	6CH	A001-A507	Set to 6CH DMX mode	
	8CH	A001-A505	Set to 8CH DMX mode	
	11CH	A001-A502	Set to 11CH DMX mode	
Auto	SP01-SP20		Speed (slow <-> fast)	*Cycles thru all show programs 1-12*
	St00-St19		Strobe (slow <-> fast)	
Shou	Sh01-Sh12		Built-in programs 1-12	
	SP01-SP20		Program speed (slow <-> fast)	
	St00-St19		Program strobe (slow <-> fast)	
Soud	Sou1-Sou3	Sen1-Sen9	Sound active 1-3, mic sensitivity 1-9 (low/high)	
Slau	**<ENTER>**		Set fixture to run in slave mode	
Colo	r000-r255		Red intensity (0% <-> 100%)	
	g000-g255		Green intensity (0% <-> 100%)	
	b000-b255		Blue intensity (0% <-> 100%)	
	A000-A255		Amber intensity (0% <-> 100%)	
	U000-U255		White intensity (0% <-> 100%)	
	P000-P255		UV intensity (0% <-> 100%)	
	St00-St19		Strobe (slow <-> fast)	
Stat	bASC	CL00 - CL27	Basic static colors 1-27	
	rOSC	rS00 - rS32	Rosco matched static colors 1-32	
Set	dis	10 S	Menu turns off after 10s	
		20 S	Menu turns off after 20s	
		30 S	Menu turns off after 30s	
		60 S	Menu turns off after 60s	
		on	Menu is always on	
	Temp	50-65 C	Power reduces when above the set temperature	
	Send	**<ENTER>**	Sync all linked fixtures to current channel mode	
Info	Ver	**<ENTER>**	Current firmware version	
	Temp	**<ENTER>**	Current LED board temperature (C)	

DMX Mode

Set the channel mode and starting DMX address.

1.) Navigate the main menu until you reach **Addr**, and press **<ENTER>**.
2.) Use the **<UP/DOWN>** buttons to select **6CH**, **8CH**, or **11CH**, and press **<ENTER>**.
3.) Then use the **<UP/DOWN>** buttons to select a valid starting address for the selected mode.
4.) Press **<ENTER>** to confirm.

Auto Mode

This mode cycles through all 12 built-in show programs automatically.

1.) Navigate the main menu until you reach **Auto**, and press **<ENTER>**.
2.) Use the **<UP/DOWN>** buttons to adjust **Speed (SP01–SP20)**, and press **<ENTER>**.
3.) Then use the **<UP/DOWN>** buttons to adjust **Strobe (St00–St19)**, and press **<ENTER>**.

Show Mode

This mode allows you to run a specific show program (1–12).

1.) Navigate the main menu until you reach **Shou**, and press **<ENTER>**.
2.) Use the **<UP/DOWN>** buttons to select a program **(Sh01–Sh12)**, and press **<ENTER>**.
3.) Next, adjust the **Speed (SP01–SP20)** using the **<UP/DOWN>.** Press **<ENTER>**.
4.) Finally, you can set the **Strobe (St00–St19)** level, and press **<ENTER>**.

Slave Mode

1.) Navigate the main menu until you reach **SLAU**, and press **<ENTER>**.
2.) The fixture will now follow the master fixture (the first fixture in the DMX chain).

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Sound Active Modes

These modes trigger effects based on sound. Sensitivity ranges from low (1) to high (9).

1.) Navigate the main menu until you reach **Soud**, and press **<ENTER>**.
2.) Using the **<UP/DOWN>** buttons, highlight **Sou1**, **Sou2**, or **Sou3**, then press **<ENTER>**.
3.) Adjust the mic sensitivity (**Sen1**–**Sen9**) using the **<UP/DOWN>** buttons.
4.) Press **<ENTER>** to confirm.

Color Mixing + Strobe Effects

1.) Navigate the main menu until you reach **Colo**, and press **<ENTER>**.
2.) Use the **<UP/DOWN>** buttons to highlight a setting.

r000-r255	Red intensity (0% <-> 100%)
g000-g255	Green intensity (0% <-> 100%)
b000-b255	Blue intensity (0% <-> 100%)
A000-A255	Amber intensity (0% <-> 100%)
U000-U255	White intensity (0% <-> 100%)
P000-P255	UV intensity (0% <-> 100%)
St00-St19	Strobe (slow <-> fast)

3.) Press **<ENTER>**, then adjust the value using the **<UP/DOWN>** buttons.
4.) Press **<ENTER>** again to confirm.

Static Colors

There are 27 basic colors and 32 colors that are matched to popular Rosco© color gels.

1.) Navigate the main menu until you reach **Stat**, and press **<ENTER>**.
2.) Use the **<UP/DOWN>** buttons to highlight either **bASC (CL01–CL27)** or **rOSC (rS01–rS32)**, then press **<ENTER>**.
3.) Scroll to select a color, and press **<ENTER>** to confirm.

Basic Colors			**Rosco© Colors**		
Menu	DMX Value	Color Name	Menu	DMX Value	Color Name
CL00	000 <-> 003	No Function	rS00	112 <-> 115	No Function
CL01	004 <-> 007	Red	rS01	116 <-> 119	R27 Med Red
CL02	008 <-> 011	Green	rS02	120 <-> 123	R26 Light Red
CL03	012 <-> 015	Blue	rS03	124 <-> 127	R19 Fire
CL04	016 <-> 019	Amber	rS04	128 <-> 131	R22 Deep Amber
CL05	020 <-> 023	White	rS05	132 <-> 135	R23 Orange
CL06	024 <-> 027	UV (Ultraviolet)	rS06	136 <-> 139	R18 Flame
CL07	028 <-> 031	Yellow	rS07	140 <-> 143	R04 Med Bastard Amber
CL08	032 <-> 035	Magenta	rS08	144 <-> 147	R01 Light Bastard Amber
CL09	036 <-> 039	Cyan	rS09	148 <-> 151	R02 Bastard Amber
CL10	040 <-> 043	Pink	rS10	152 <-> 155	R14 Med Straw
CL11	044 <-> 047	Mint	rS11	156 <-> 159	R10 Med Yellow
CL12	048 <-> 051	Light Blue	rS12	160 <-> 163	R96 Lime
CL13	052 <-> 055	Orange	rS13	164 <-> 167	R388 Gaslight Green
CL14	056 <-> 059	Fuchsia	rS14	168 <-> 171	R86 Pea Green
CL15	060 <-> 063	Aqua	rS15	172 <-> 175	R389 Chroma Green
CL16	064 <-> 067	Deep Amber	rS16	176 <-> 179	R92 Turquoise
CL17	068 <-> 071	Rose	rS17	180 <-> 183	R90 Dark Yellow Green
CL18	072 <-> 075	Flame Red	rS18	184 <-> 187	R393 Emerald Green
CL19	076 <-> 079	UV Red	rS19	188 <-> 191	R73 Peacock Blue
CL20	080 <-> 083	Chartreuse	rS20	192 <-> 195	R64 Light Steel Blue
CL21	084 <-> 087	UV Green	rS21	196 <-> 199	R67 Light Sky Blue
CL22	088 <-> 091	Violet	rS22	200 <-> 203	R72 Azure Blue
CL23	092 <-> 095	UV Amber	rS23	204 <-> 207	R70 Nile Blue
CL24	096 <-> 099	Deep Orange	rS24	208 <-> 211	R66 Cool Blue
CL25	100 <-> 103	Warm White	rS25	212 <-> 215	R54 Special Lavender
CL26	104 <-> 107	White	rS26	216 <-> 219	R52 Light Lavender
CL27	108 <-> 111	RGBAW+UV	rS27	220 <-> 223	R57 Lavender
--	--	--	rS28	224 <-> 227	R59 Indigo
--	--	--	rS29	228 <-> 231	R49 Med Purple
--	--	--	rS30	232 <-> 235	R344 Follies Pink
--	--	--	rS31	236 <-> 239	R339 Broadway Pink
--	--	--	rS32	240 <-> 255	R30 Light Salmon Pink

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DMX Values In-Depth (6/8/11-Channel Modes)

6CH	8CH	11CH	Value	What It Does
--	1	1	000 <-> 255	Dimmer (0% <--> 100%)
--	2	2	000 <-> 255	Strobe (slow <--> fast)
--	--	3		**Built-In Programs**
			000 <-> 014	No Function *(allows control of CCT via CH11)*
			015 <-> 029	Static Colors *(Use CH4 to adjust colors. See static color values on page 12)*
			030 <-> 044	Built-in Program 1
			045 <-> 059	Built-in Program 2
			060 <-> 074	Built-in Program 3
			075 <-> 089	Built-in Program 4
			090 <-> 104	Built-in Program 5
			105 <-> 119	Built-in Program 6
			120 <-> 134	Built-in Program 7
			135 <-> 149	Built-in Program 8
			150 <-> 164	Built-in Program 9
			165 <-> 179	Built-in Program 10
			180 <-> 194	Built-in Program 11
			195 <-> 209	Built-in Program 12
			210 <-> 224	Auto *(cycles built-in programs 1-12)*
			225 <-> 239	Sound Active 1
			240 <-> 254	Sound Active 2
			255	Sound Active 3
--	--	4	000 <-> 255	Auto Program Speed
1	3	5	000 <-> 255	Red Intensity (0% <--> 100%)
2	4	6	000 <-> 255	Green Intensity (0% <--> 100%)
3	5	7	000 <-> 255	Blue Intensity (0% <--> 100%)
4	6	8	000 <-> 255	Amber Intensity (0% <--> 100%)
5	7	9	000 <-> 255	White Intensity (0% <--> 100%)
6	8	10	000 <-> 255	UV Intensity (0% <--> 100%)
--	--	11		**CCT** *(CH3 value must be set from 000-014)*
			000 <-> 007	No Function
			008 <-> 255	CCT (2000K-5700K)

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5. APPENDIX

Keeping Your LB™ Hex Alloy 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. Cleaning the optics routinely with a suitable glass cleaner will greatly improve the quality of light output.

In transit, keep the fixtures in cases. 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 concentrate on designing a great light show. 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 visit www.blizzardpro.com/support and open a support ticket, 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.

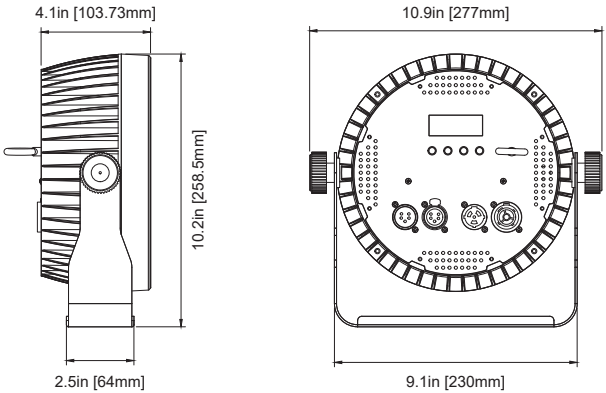
When returning your fixture for service, be sure to include the following:

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.

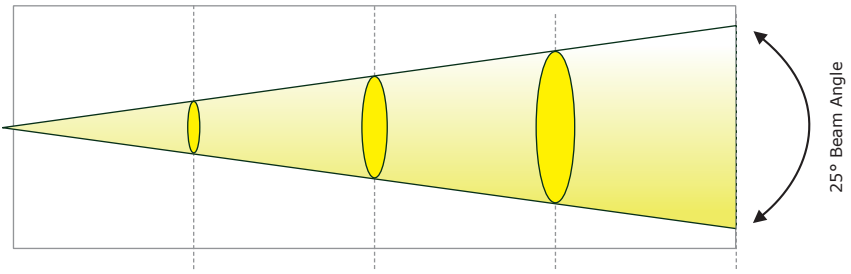


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Tech Specs!

Weight & Dimensions	
Width	10.9 inches (277 mm)
Depth	4.1 inches (103.8 mm)
Height	10.2 inches (258.5 mm)
Weight	6.1 lb (2.76 kg)
Power	
Operating Voltage	AC 110-240V, 50/60Hz
Power Consumption	144W, 1.85A, PF: .67
Light Source	
LED	18x 18W RGBAW+UV 6-in-1 LEDs (100,000 hours)
Optical	
Beam Angle	25-degree beam
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Control	
Protocol	USITT DMX-512, RDM
DMX Channels	6/8/11-channel DMX modes
Input/Output	5-pin XLR Male/Female
Other Operating Modes	DMX512, M/S, Standalone, Auto, Sound Active
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LEDs.

Photometric Data



Distance:	2m	3m	4m	5m
Diameter:	35.5" (90 cm)	53" (135 cm)	70.9" (180 cm)	88.6" (225 cm)

Luminous Intensity:

	2.5-meter		3-meter		4-meter		5-meter	
Beam	Lux	fc	Lux	fc	Lux	fc	Lux	fc
25°	4,389	407.7	2,958	274.8	1,643	152.7	991	92.1

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