HYPE 150

❄ blizzard

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1. GETTING STARTED

What's In The Box?

- HYPE™ 150 Moving Head
- Power Cord
- 2x Mounting Brackets
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on purchasing the HYPE™ 150. 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 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.blizzardpro.com/ support and open a support ticket. We'll be happy to help, honest.

Disclaimer: The information 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. We reserve the right to update the existing, or create a new document 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	3/20/2022	J. Thomas	8/9/2022

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 HYPE™ 150

Main Features

- 150W, 8500K white LED light source, 50,000 hours
- Pan: 540°/tilt: 270° (8-16 bit resolution)
- Optional pan/tilt invert function
- Smooth linear dimming & electronic focus (0%-100%)
- 16° beam angle
- Rotating gobo wheel with 6 gobos +open
- Static gobo wheel with 8 gobos +open
- Color wheel with 7 colors plus +open & split colors
- +5V USB to power SoC-It™ wireless unit (not included)
- Bidirectional rainbow color effects
- 3-facet circular prism with variable speed and direction
- Built-in auto & sound active programs
- 1-15Hz strobe effects
- 3/5-pin XLR male and female DMX in/out
- powerCON™ TRUE1 compatible power input/output

Control

- Protocol: USITT DMX-512, RDM
- DMX Channels: 12/15-channels
- 4-button control panel with colored LCD display
- Operating modes: DMX512, M/S, auto, and sound active

DMX Quick Reference (12/15-Channel Modes)

12CH	15CH	What it does
1	1	Pan
--	2	Fine Pan (16-bit)
2	3	Tilt
--	4	Fine Tilt (16-bit)
3	5	Pan/Tilt Speed
4	6	Dimmer (0% - 100%)
5	7	Strobe
6	8	Color Wheel
--	9	Color Split
7	10	Gobo Wheel (static)
8	11	Gobo Wheel (rotating)
9	12	Gobo Rotation
10	13	Focus (0% - 100%)
11	14	Prism
12	15	Reset

Figure 1: HYPE™ 150 Pin-Up Picture

Head/Arms

150W LED
Light Source

+5V USB

For use with
SoC-It wire-
less (sold
separately)

4-button
LCD
Control
Panel and
Status
LEDs

Carry
Handle

Status LEDs

1.) DMX (Lost DMX)
2.) ERR (Pan/Tilt)

Figure 2: Rear Connections

Fuse
Holder

3-Pin
DMX In

5-Pin
DMX In

FUSE

CE RoHS

DMX IN

POWER IN

POWER OUT

DMX OUT

Power
Input

Power
Output

3-Pin
DMX Out

5-Pin
DMX Out
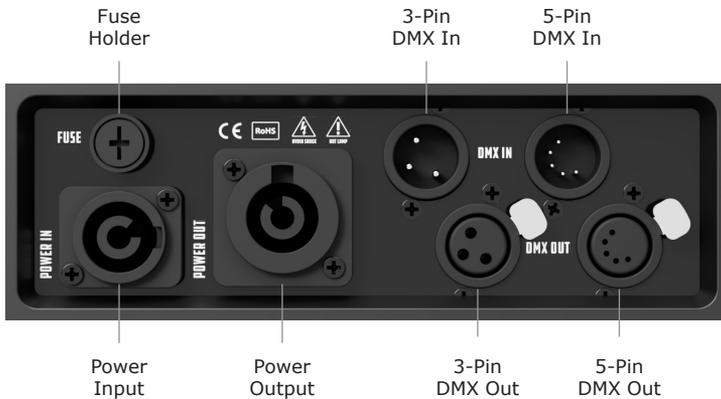
3. SETUP

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

Fuse Replacement

Remove the fuse holder from of its housing. Then take out the damaged fuse from its holder and replace with exact same type of fuse. Reattach the fuse holder, and then reconnect power.

Connecting A Bunch of HYPE™ 150 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.

Cable Connectors

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

INPUT   OUTPUT

DMX -
Common
DMX +
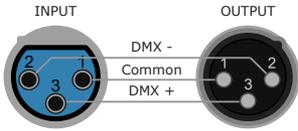
A Word on Termination:

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?!?

This fixture is equipped with both 3-pin and 5-pin XLR sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3/5-pin XLR connectors to connect the controller to the fixture, or the fixture to another fixture.

| Conductor	3-Pin Female (Output)	5-Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data 1- (Primary Data Link)	Pin 2	Pin 2
Data 1+ (Primary Data Link)	Pin 3	Pin 3
Data 2- (Optional Secondary Data Link)	--	Pin 4 - Do Not Use
Data 2+ (Optional Secondary Data Link)	--	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.

First
Fixture
in Chain

DMX IN   DMX OUT

Next
Fixture
in Chain

DMX IN   DMX OUT
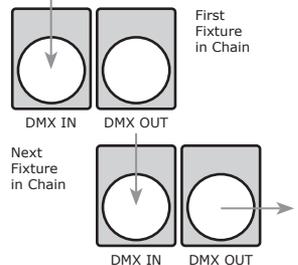
Mounting & Rigging

This fixture provides a mounting bracket assembly that secures the bottom of the base, the omega brackets, and the safety cable rigging point together. When mounting this fixture to truss, be sure to secure an appropriately rated clamp to the omega bracket.

1.) Clamp
2.) Omega Bracket
3.) ¼ Turn Quick Locks

1/4 Turn   1/4 Turn
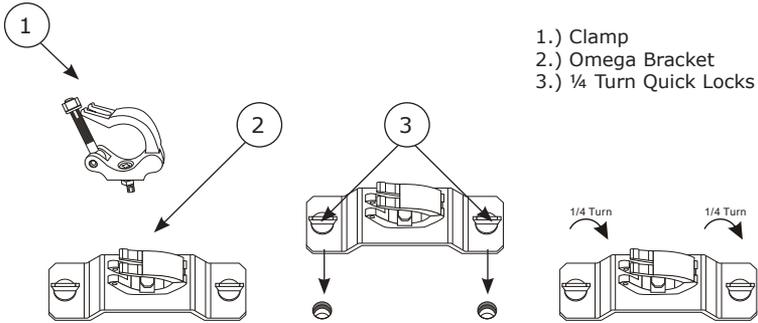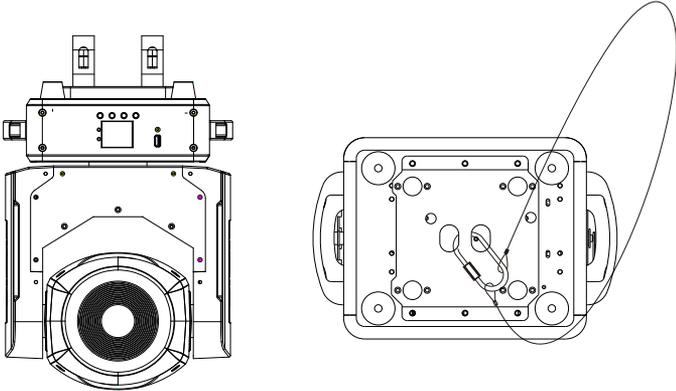
Securing the Fixture

Regardless of the rigging option you choose for your fixtures always be sure to secure your fixture with a safety cable. Be sure to only use the designated rigging point found on the underside of the base assembly for the safety cable. Never secure a safety cable to a carrying handle.

4. OPERATING ADJUSTMENTS

The Control Panel

All the features and different modes possible with the HYPE™ 150 are accessed by using the control panel on the rear of the fixture. There are 4 control buttons under to the LCD display which allow you to navigate through the various control panel menus.

<MENU>

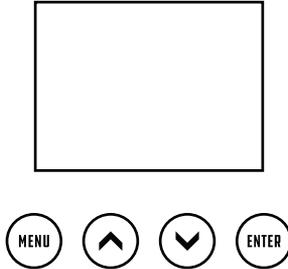Is used to navigate to the previous higher-level menu item.

<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.

The control panel LCD 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.

Control Panel Menu Structure

DMX Address	001-512	Set the starting address from 001-512
Mode	DMX	12Ch / 15Ch
	Auto	Program (Pr 0-3)
	Speed	Program speed (Sp 0-99)
	Sound Program	Sound active program (Pr 0-3)
	Sensitivity	Mic sensitivity (Se 0-99)
	Manual	Manual adjustments (000-255)
Settings	Reset	Press **<ENTER>** to reset the fixture
	Display	Menu display On/Off (Off = turns off after 30s)
	Display Rev	Flip menu display (on/off)
	DMX Fail	Blackout
	(lost DMX signal default function)	Hold (holds at last received signal)
	Dimmer Curve	Linear / Exp / Log / S-Curve
	Pan Rev	Reverse pan (on/off)
	Tilt Rev	Reverse pan (on/off)
System	Firmware	Displays the firmware version
	Time Info	Shows the total run time hours
	Temperature	Displays the internal temperature

Starting DMX Address
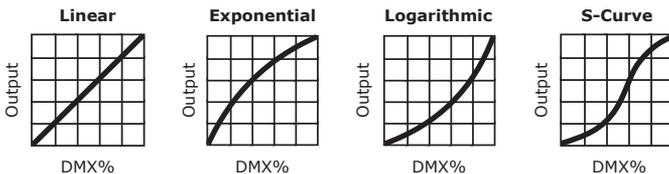
1.) Navigate the menu to reach **DMX Address**, and press **<ENTER>**.
2.) Use the **<UP/DOWN>** buttons to select a value from **001-512**, and press **<ENTER>** to confirm.

DMX Channel Mode

1.) Navigate the menu to reach **Mode**, and press **<ENTER>**
2.) Highlight **<DMX>**, and press **<ENTER>.**
3.) Use **<UP/DOWN>** to select either **12Ch** or **15Ch**, and press **<ENTER>.**

Auto & Sound Active Modes

1.) Navigate the menu to reach **Mode**, and press **<ENTER>.**
2.) Highlight **<Auto>** or **<Sound>**, & press **<ENTER>**. Press **<ENTER>** again, then use **<UP/DOWN>** to highlight any program (**Pr**) from **0-3** and press **<ENTER>**.
3.) Now you can change the program speed (slow to fast) or the mic sensitivity by either altering its speed (**Sp**), or mic sensitivity (**Se**) value settings.

Dimming Curves

1.) Navigate the menu to reach **Settings**, and press **<ENTER>**.
2.) Use the **<UP/DOWN>** buttons to select **Dimmer Curve**. Press **<ENTER>**.
3.) Then highlight either **Linear**, **Exp**, **Log**, **S-Curve**, and press **<ENTER>**.
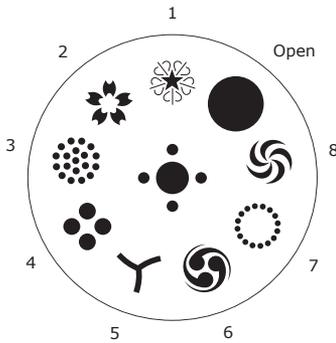
DMX Values In-Depth (12/15-Channel Modes)

12CH	15CH	Value	What it does
1	1	000 <-> 255	Pan
--	2	000 <-> 255	Fine Pan (16-bit)
2	3	000 <-> 255	Tilt
--	4	000 <-> 255	Fine Tilt (16-bit)
3	5	000 <-> 255	**Pan/Tilt Speed** Pan & Tilt speed (fast <-> slow)
4	6	000 <-> 255	Dimmer (0% - 100%)
5	7	000 <-> 010 011 <-> 255	**Strobe** No Function Strobe (slow <-> fast)
6	8	000 <-> 015 016 <-> 031 032 <-> 047 048 <-> 063 064 <-> 079 080 <-> 095 096 <-> 111 112 <-> 127 128 <-> 189 190 <-> 193 194 <-> 255	**Color Wheel** Open Red Green Yellow Blue Magenta Orange Cyan Color forward rotation (fast <-> slow) Stop Color backward rotation (slow <-> fast)
--	9	000 <-> 049 050 <-> 255	**Color Split** Open Close
7	10	000 <-> 006 007 <-> 013 014 <-> 020 021 <-> 027 028 <-> 034 035 <-> 041 042 <-> 048 049 <-> 055 056 <-> 063 064 <-> 070 071 <-> 077 078 <-> 084 085 <-> 091 092 <-> 098 099 <-> 105 106 <-> 112 113 <-> 119 120 <-> 127 128 <-> 189 190 <-> 193 194 <-> 255	**Gobo Wheel (static)** Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 8 Shake (slow <-> fast) Gobo 7 Shake (slow <-> fast) Gobo 6 Shake (slow <-> fast) Gobo 5 Shake (slow <-> fast) Gobo 4 Shake (slow <-> fast) Gobo 3 Shake (slow <-> fast) Gobo 2 Shake (slow <-> fast) Gobo 1 Shake (slow <-> fast) Open Forward Scroll (fast <-> slow) Stop Reverse Scroll (slow <-> fast)
8	11	000 <-> 015 016 <-> 031 032 <-> 047 048 <-> 063 064 <-> 079 080 <-> 095 096 <-> 127 128 <-> 189 190 <-> 193 194 <-> 255	**Gobo Wheel (rotating)** Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Forward Scroll (fast <-> slow) Stop Reverse Scroll (slow <-> fast)

DMX Values In-Depth (12/15-Channel Modes)

12CH	15CH	Value	What it does
9	12	000 <-> 127 128 <-> 189 190 <-> 193 194 <-> 255	**Gobo Rotation** Fine Index (0-360º) Forward Rotation (fast <-> slow) Stop Reverse Rotation (slow <-> fast)
10	13	000 <-> 255	Focus (0% - 100%)
11	14	000 <-> 007 008 <-> 127 128 <-> 255	**Prism** Open Prism In Rotate (slow <-> fast)
12	15	000 <-> 249 250 <-> 255	**Reset** No Function Reset

Gobo and Color Wheels

Static Gobos:

Colors:

Static Gobos wheel: 1. Open, 2, 3, 4, 5, 6, 7, 8

Open   1. Red   2. Green

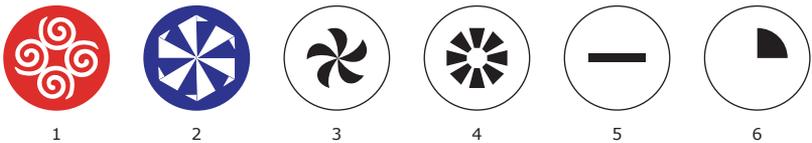3. Yellow   4. Blue   5. Magenta

6. Orange   7. Cyan

Rotating Gobos:

1   2   3   4   5   6

5. APPENDIX

Keeping Your HYPE™ 150 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, you'll need to take care of it if you want it to operate as designed. You should 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 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.

Tech Specs!

| Weight & Dimensions	
Dimensions	11.2 x 7.7 x 17.8 in. (283.6 x 193.8 x 450 mm)
Weight	16.2 lbs, 9.5 kg
Power	
Operating Voltage	100V-240VAC, 50-60Hz
Power Consumption	225W, 2.04A, PF: .99
Fuse	5A, 250V
Light Source	
LED	150W, 8500K white LED light source, 50,000 hours
Optical	
Beam Angle	16° beam angle
Gobo Size	21.9 mm outer, 16.5 mm inner, 1.1 mm thickness
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Control	
Protocol	USITT DMX-512
DMX Channels	12/15-channel DMX modes
Input/Output	3 and 5-pin XLR Male
Other Operating Modes	Standalone, M/S, Auto, Sound Active
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LEDs.
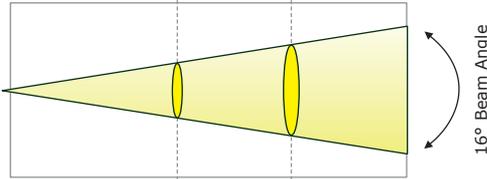
Distance: 2.5m   5m
Diameter: 28.4" (72 cm)   56.7" (144 cm)

Luminous Intensity:

Beam	2.5m lux	2.5m fc
16°	10,596	984.4

Beam	5m lux	5m fc
16°	2,859	265.6

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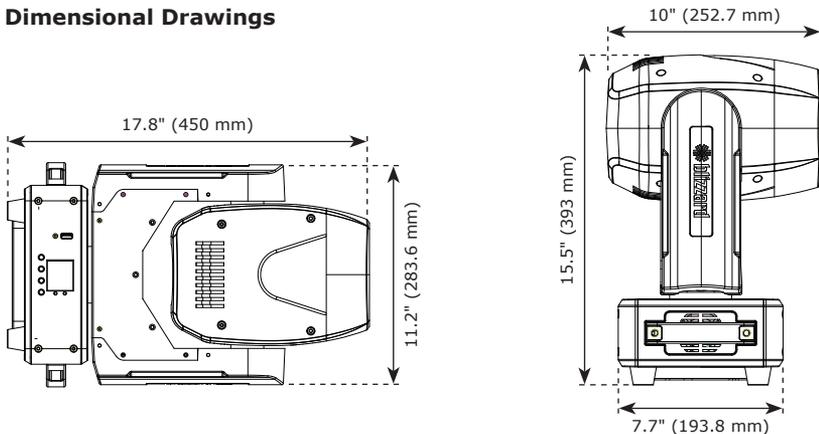
Enjoy your product!
Our sincerest thanks for your purchase!
--The team @ Blizzard Lighting