

TYPHONI™

IP WASH



 **blizzard**

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

What's In The Box?

- Typhon™ IP Wash
- An Ever-So-Handy Power Cord
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on purchasing the Typhon™ IP Wash moving head fixture! Now that you've got your Typhon™ IP Wash, 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 happens goes wrong, please visit www.blizzardpro.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.blizzardpro.com.

Author:	Date:	Last Edited:	Date:
J. Thomas	11/8/2023	J. Thomas	11/15/2023

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.
- 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 113°F (45°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.

2. MEET THE TYPHON™ IP WASH

MAIN FEATURES

- Professional IP66-rated LED moving wash fixture
- 19* 40W OSRAM® 4-in-1 RGBW LEDs, 50,000 hrs
- Pan: 360/540°, Tilt: 230° (8-16 bit resolution)
- Adjustable pan/tilt speed
- Motorized zoom (6°-33° beam, 9°-55° field angle)
- 0% - 100% electronic dimming
- Full color and 3-zone LED ring effects
- 16 static color presets, 10 built-in color chase macros
- 1-25Hz strobe, synchronized + pulse effects
- CCT colors from 3200K-7200K, CRI: ≥70
- 4x user selectable dimming curves
- Internal fan cooling system
- Secure pan/tilt locks for safe transport
- Integrated dual clamp mounting assembly
- powerCON® TRUE1-compatible power input

CONTROL

- Protocol: USITT DMX-512, RDM
- DMX channels: 23/15/39-channel modes
- Easy-to-use 5-button control panel with LCD display
- Operating modes: DMX512, master/slave, auto

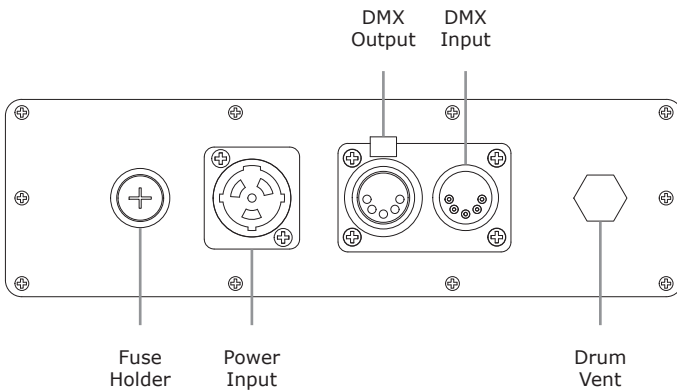
DMX Quick Reference (23/15/39-Channel Modes)

23CH	15CH	39CH	What It Does	23CH	15CH	39CH	What It Does
1	1	1	Pan	--	--	17	Red 2 (inner)
2	--	2	Pan Fine	--	--	18	Red 2 Fine (inner)
3	2	3	Tilt	--	--	19	Green 2 (inner)
4	--	4	Tilt Fine	--	--	20	Green 2 Fine (inner)
5	3	5	Movement Speed	--	--	21	Blue 2 (inner)
6	4	6	Dimmer	--	--	22	Blue 2 Fine (inner)
7	--	7	Fine Dimmer	--	--	23	White 2 (inner)
8	5	8	Strobe/Shutter	--	--	24	White 2 Fine (inner)
9	6	--	Red (all)	--	--	25	Red 3 (center)
10	--	--	Red Fine (all)	--	--	26	Red 3 Fine (center)
11	7	--	Green (all)	--	--	27	Green 3 (center)
12	--	--	Green Fine (all)	--	--	28	Green 3 Fine (center)
13	8	--	Blue (all)	--	--	29	Blue 3 (center)
14	--	--	Blue Fine (all)	--	--	30	Blue 3 Fine (center)
15	9	--	White (all)	--	--	31	White 3 (center)
16	--	--	White Fine (all)	--	--	32	White 3 Fine (center)
--	--	9	Red 1 (outer)	17	10	33	Color Macros
--	--	10	Red 1 Fine (outer)	18	11	34	Macro Speed
--	--	11	Green 1 (outer)	19	12	35	CCT
--	--	12	Green 1 Fine (outer)	20	13	36	Zoom
--	--	13	Blue 1 (outer)	21	--	37	Zoom Fine
--	--	14	Blue 1 Fine (outer)	22	14	38	Dimming Modes
--	--	15	White 1 (outer)	23	15	39	Reset
--	--	16	White 1 Fine (outer)	--	--	--	--

Figure 1: The Typhon™ IP Wash Pin-Up Picture



Figure 2: The Rear Connections



3. SETUP



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

Fuse Replacement

Disconnect the power and remove the unit's power cord. Once the cord has been removed locate the fuse holder that is located next to the power input connection. Using a phillips head screwdriver, unscrew the fuse holder. Remove the bad fuse and replace with a new one, then screw the fuse holder back into place.

Connecting A Bunch of Typhon™ IP Wash 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 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:

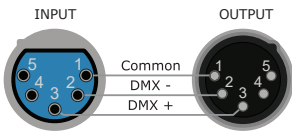
- 2-conductor twisted pair plus a shield
- Maximum capacitance between conductors – 30 pF/ft.
- Maximum capacitance between conductor & shield – 55 pF/ft.
- Maximum resistance of 20 ohms / 1000 ft.
- Nominal impedance 100 – 140 ohms

For longer cable runs, it is a good idea to have a DMX terminator plug inserted into the female XLR (DMX output) connector of the last unit. This will properly terminate the data signal, greatly decreasing the possibility of erratic behavior.

Disclaimer: The power connector fitted to the fixture and fixture cord is designed for compatibility with products manufactured by Neutrik AG, Neutrik USA and their related entities, however it is 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.



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

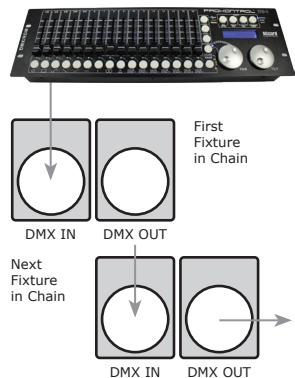
Take It To The Next Level: Setting Up DMX Control

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.



Fixture Linking (Master/Slave Mode)

1. Connect the (male) 5-pin connector side of the DMX cable to the output (female) 5-pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 5-pin connector to the input connector of the next fixture consisting of a (male) 5-pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

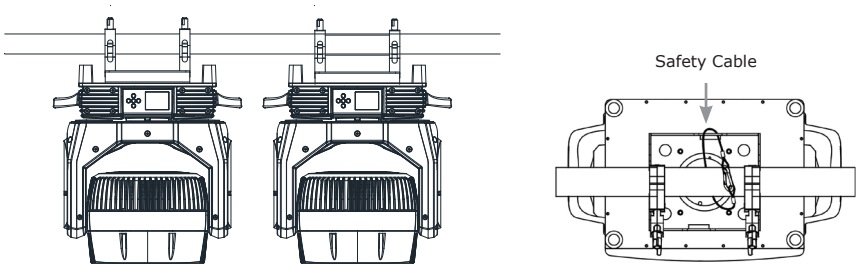
Clamp Mounting

Note: For quick setup, this fixture includes an integrated dual clamp assembly, and for permanent installs, an optional mounting plate with 4x 10mm bolt holes is available.

IMPORTANT:

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 inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



Instructions:

- 1.) *Stabilize the Fixture:* Engage the pan/tilt locks.
- 2.) *Position for Clamp Access:* Position the fixture to easily access the clamp assembly.
- 3.) *Prepare Clamps:* Swivel both clamps outward by 90° and open them adequately to fit around the truss bar.
- 4.) *Position on Truss:* Carefully lift the fixture and position it on the truss bar.
- 5.) *Secure Clamps:* Tighten the nut on each clamp in a clockwise direction to secure the fixture to the truss.
- 6.) *Safety Cable Attachment:* For additional security, attach a safety cable. Refer to the provided illustration above.
- 7.) *Disengage Locks:* Once the fixture is securely mounted, disengage the pan/tilt locks to allow for its intended movement.

4. OPERATING ADJUSTMENTS

The Control Panel

All the goodies and different modes possible with this fixture are accessed by using the control panel on the front of the fixture. The buttons next to the LCD display allow you to navigate through the various control panel menus.

<ENTER>

Is used to navigate to a higher-level menu item.

<UP>

Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.

<CENTER>

The center (middle) button is used to unlock the menu "Key Lock" function when enabled.

<MENU>

To return to the previous option or menu without changing the value.



The control panel LCD display shows the menu items you select from the menu map found on page #11. When a menu function is selected, the display will immediately show the first available option for the selected menu function.

Use the <UP>, <DOWN>, and <ENTER> buttons to navigate the menu options. Press the <ENTER> button to enable a menu option. To return to the previous option or menu screen without changing the value, press the <MENU> button.

Control Panel Menu Structure

Function	Set DMX Address		Set the starting DMX address from 001-512
	Channel Mode		Standard (23ch) Basic (15ch) Extended (39ch)
	Display Value	Display All Display None Pan --- Dimming Modes	Show any or all (active) DMX channel values on home screen
Info.	Running Hours		Current, total, last run, and LED on running times
	Temperature		LED, base, and head temperatures
	Fan Information		Fan 1 and 2 status and RPM information
	Error Info.		Displays any recorded error records
System Setting	Software Version		Current software information
	User Preferences	Console Set Addr	Address can be changed by console
		Lost DMX	Blackout/Hold
		Pan Reverse	Enable/Disable
		Tilt Reverse	Enable/Disable
		Pan Degree	360/540
		Feedback	Enable/Disable (auto position correction)
	Hibernation		Disable/1-120 min.
	Fan Control		Auto/High/Low
	Display Settings	Shutoff Time	1-80 Min/Disable LCD backlight
		Key Lock	Enable/Disable (press <CENTER> 3s to unlock)
		Display Reverse	Off/On/Auto
		Brightness	15-100% (80% = default)
	Temperature C/F		Celsius / Fahrenheit
	Restore Defaults		No/Yes
Dimming Modes		Perceptual Linear 1	
		Perceptual Linear 2	
		Exponential	
		Parabolic	
Calibration		Calibration settings, PW=99	
Channel Adjust	Test Mode	Test All	Run test sequence of all functions. Press <MENU> button to exit test.
		Manual Mode	Manually adjust individual values
Reset	Reset Pan/Tilt		No/Yes (pan/tilt motors)
	Reset Zoom		No/Yes (reset zoom)
	Reset All		No/Yes (reset all motors)
	Factory Settings		No/Yes (reset to all factory settings)

DMX Values In-Depth (23/15/39-Channel Modes)

23CH	15CH	39CH	What It Does	Value		Percent	
1	1	1	Pan	0	255	0%	100.0%
2	--	2	Pan Fine	0	65535	0%	100.0%
3	2	3	Tilt	0	255	0%	100.0%
4	--	4	Tilt Fine	0	65535	0%	100.0%
5	3	5	Movement Speed	0	255	0%	100.0%
6	4	6	Dimmer	0	255	0%	100.0%
7	--	7	Fine Dimmer	0	65535	0%	100.0%
8	5	8	Strobe/Shutter	0	31	0%	12.2%
				32	63	12.5%	24.7%
				64	127	25.1%	49.8%
				128	159	50.2%	62.4%
				160	223	62.7%	87.5%
				224	255	87.8%	100.0%
9	6	--	Red (all)	0	255	0%	100.0%
10	--	--	Red Fine (all)	0	65535	0%	100.0%
11	7	--	Green (all)	0	255	0%	100.0%
12	--	--	Green Fine (all)	0	65535	0%	100.0%
13	8	--	Blue (all)	0	255	0%	100.0%
14	--	--	Blue Fine (all)	0	65535	0%	100.0%
15	9	--	White (all)	0	255	0%	100.0%
16	--	--	White Fine (all)	0	65535	0%	100.0%
--	--	9	Red 1 (outer)	0	255	0%	100.0%
--	--	10	Red 1 Fine (outer)	0	65535	0%	100.0%
--	--	11	Green 1 (outer)	0	255	0%	100.0%
--	--	12	Green 1 Fine (outer)	0	65535	0%	100.0%
--	--	13	Blue 1 (outer)	0	255	0%	100.0%
--	--	14	Blue 1 Fine (outer)	0	65535	0%	100.0%
--	--	15	White 1 (outer)	0	255	0%	100.0%
--	--	16	White 1 Fine (outer)	0	65535	0%	100.0%
--	--	17	Red 2 (inner)	0	255	0%	100.0%
--	--	18	Red 2 Fine (inner)	0	65535	0%	100.0%
--	--	19	Green 2 (inner)	0	255	0%	100.0%
--	--	20	Green 2 Fine (inner)	0	65535	0%	100.0%
--	--	21	Blue 2 (inner)	0	255	0%	100.0%
--	--	22	Blue 2 Fine (inner)	0	65535	0%	100.0%
--	--	23	White 2 (inner)	0	255	0%	100.0%
--	--	24	White 2 Fine (inner)	0	65535	0%	100.0%
--	--	25	Red 3 (center)	0	255	0%	100.0%
--	--	26	Red 3 Fine (center)	0	65535	0%	100.0%
--	--	27	Green 3 (center)	0	255	0%	100.0%
--	--	28	Green 3 Fine (center)	0	65535	0%	100.0%
--	--	29	Blue 3 (center)	0	255	0%	100.0%
--	--	30	Blue 3 Fine (center)	0	65535	0%	100.0%
--	--	31	White 3 (center)	0	255	0%	100.0%
--	--	32	White 3 Fine (center)	0	65535	0%	100.0%
17	10	33	Color Macros				
			No function	0	009	0%	3.8%
			<i>Static Colors:</i>				
			Red	10	19	3.9%	7.5%
			Green	20	29	7.8%	11.4%
			Blue	30	39	11.8%	15.3%
			White	40	49	15.7%	19.2%
			Yellow	50	59	19.6%	23.1%
			Purple	60	69	23.5%	27.1%
			Teal	70	79	27.5%	31.0%
Lt. Lavender	80	89	31.4%	34.9%			

DMX Values In-Depth (23/15/39-Channel Modes)

23CH	15CH	39CH	What It Does	Value		Percent			
17	10	33	Blue - Green - Red	90	99	35.3%	38.8%		
			Red - White	100	109	39.2%	42.7%		
			White - Yellow	110	119	43.1%	46.7%		
			Blue - White - Blue	120	129	47.1%	50.6%		
			Purple - White	130	139	51.0%	54.5%		
			White - Red	140	149	54.9%	58.4%		
			Blue - Purple - Yellow	150	159	58.8%	62.4%		
			Purple - White - Purple	160	169	62.7%	66.3%		
			<i>Color Chases:</i>						
			Solid Colors	170	179	66.7%	70.2%		
			Ring Chase	180	189	70.6%	74.1%		
			Color Fill	190	199	74.5%	78.0%		
			RGB In/Out	200	205	78.4%	80.4%		
			Random Colors	206	214	80.8%	83.9%		
			Fading Rings	215	223	84.3%	87.5%		
			Pulse RGB	224	232	87.8%	91.0%		
			Solid Color Pulse	233	241	91.4%	94.5%		
			RGB Fade In/Out	242	250	94.9%	98.0%		
			RGB Bounce/Fade	251	255	98.4%	100.0%		
			18	11	34	Macro Speed	0	255	0%
19	12	35	CCT						
			No function	0	255	0%	9.7%		
			3200K	25	35	9.8%	13.7%		
			3400K	36	46	14.1%	18.0%		
			3600K	47	57	18.4%	22.4%		
			3800K	58	68	22.7%	26.7%		
			4000K	69	79	27.1%	31.0%		
			4200K	80	90	31.4%	35.3%		
			4400K	91	101	35.7%	39.6%		
			4600K	102	112	40.0%	43.9%		
			4800K	113	123	44.3%	48.2%		
			5000K	124	134	48.6%	52.5%		
			5200K	135	145	52.9%	56.9%		
			5400K	146	156	57.3%	61.2%		
			5600K	157	167	61.6%	65.5%		
			5800K	168	178	65.9%	69.8%		
6000K	179	189	70.2%	74.1%					
6200K	190	200	74.5%	78.4%					
6400K	201	211	78.8%	82.7%					
6600K	212	222	83.1%	87.1%					
6800K	223	233	87.5%	91.4%					
7000K	234	244	91.8%	95.7%					
7200K	245	255	96.1%	100.0%					
20	13	36	Zoom	0	255	0%	100.0%		
21	--	37	Fine Zoom	0	65535	0%	100.0%		
22	14	38	Dimming Modes						
			No Function	0	36	0%	14.1%		
			Perceptual Linear 1	37	40	14.5%	15.7%		
			Perceptual Linear 2	41	44	16.1%	17.3%		
			Exponential	45	48	17.6%	18.8%		
			Parabolic	49	54	19.2%	21.2%		
			No Function	55	255	21.6%	100.0%		
23	15	39	Reset						
			No Function	0	127	0.0%	49.8%		
			Pan/Tilt	128	159	50.2%	62.4%		
			Zoom	160	223	62.7%	87.5%		
			All	224	255	87.8%	100.0%		

5. APPENDIX

Keeping Your Typhon™ IP Wash As Good As New

To ensure your Typhon™ IP Wash remains in top condition, regularly clean its optics and keep the fans dust-free to avoid overheating. Most importantly, always transport the fixtures in protective cases to prevent damage and maintain their quality.

Returns (Gasp!)

In the rare event that your fixture requires a return due to a defect or malfunction, obtaining a Return Authorization (RA) is easy. Simply visit www.blizzardpro.com/support to open a support ticket for an RA. Ship the unit back using a trackable, pre-paid method like USPS Priority or UPS, ideally in its original box and packing.

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

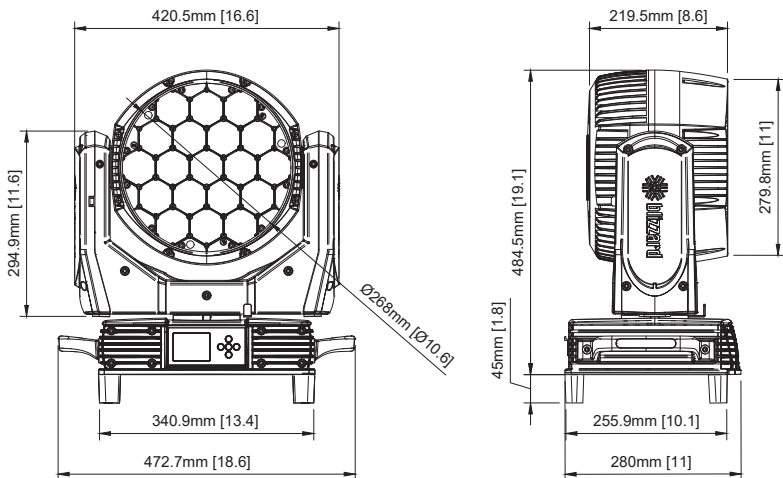
- 1.) Your contact information (Name, Address, Phone Number, Email address).
- 2.) The RA# issued to you
- 3.) A brief description of the problem/symptoms.

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.

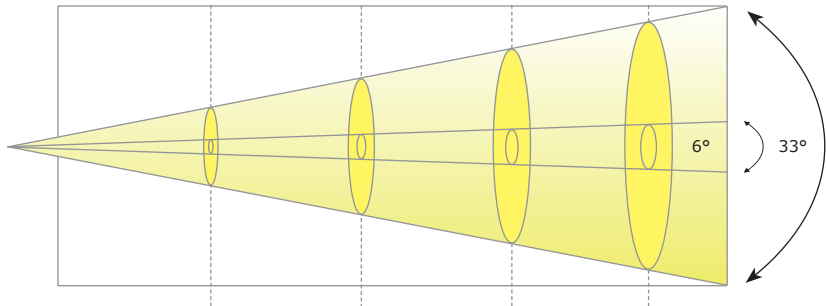
Dimensional Drawings



Tech Specs!

Weight & Dimensions	
Dimensions	18.6 x 11 x 20.9 inches (472.7 x 280 x 529.5 mm)
Weight	50.7 lbs. (23 kg)
Power	
Operating Voltage	100-240VAC, 50-60Hz
Power Consumption	965W, 10A, PF.: .96
Fuse	15A/250V
Light Source	
LED	19* 40W 4-in-1 RGBW LEDs
Beam Angle	6°-33° beam angle, 9°-55° field angle
Movement Range	
Pan/Tilt	360/540° Pan, 230° Tilt
Thermal	
Operating Range	5° F to 113° F (-15° C to 45° C)
Control	
Protocol	USITT DMX-512, RDM
DMX Channels	23/15/39-channel modes
Input/Output	5-pin XLR Male/Female
Operating Modes	DMX512, Master/Slave, Auto
Warranty	
	2-year limited warranty

Photometric Data



Distance:	2.5m	5m	7.5m	10m
6° beam dia.	1' (0.3 m)	2' (0.6 m)	3' (0.9 m)	3.9' (1.2 m)
9° field dia.	1.6' (0.5 m)	3' (0.9 m)	4.3' (1.3 m)	5.6' (1.7 m)
33° beam dia.	4.9' (1.5 m)	10.2' (3.1 m)	14.8' (4.5 m)	20.3' (6.2 m)
55° field dia.	7.5' (2.3 m)	15.4' (4.7 m)	23' (7.0 m)	30.5' (9.3)

Luminous Intensity (6° Beam Angle):

Lux/m	2.5-meter	5-meter	7.5-meter	10-meter
Red	14,100	3,940	1,950	1,080
Green	30,500	8,910	4,220	2,410
Blue	8,200	2,320	1,100	624
White	44,600	13,200	6,190	3,530
Full	90,000	26,000	12,500	7,070

Luminous Intensity (33° Beam Angle):

Lux/m	2.5-meter	5-meter	7.5-meter	10-meter
Red	844	173	93.2	52.8
Green	1,690	401	193	110
Blue	438	102	48.7	27.2
White	2,270	548	260	149
Full	4,930	1,130	563	320



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