TYPHON™

IP BSW



blizzard

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

What's Included?

- 1 x Typhon™ IP BSW 400
- 1 x Power Cord
- 2 x Mounting Brackets
- 1 x User Manual

Unpacking Instructions

Congratulations on purchasing Typhon™ IP BSW 400, professional beam/spot/wash LED moving head fixture. Now that you've got your fixture, you should carefully unpack it 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 and keep any packing material for inspection. If a fixture must be returned to the factory, it is important that the fixture be returned in its original packaged condition.

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**.

Warning! All fixtures must be connected to circuits with a suitable Ground (Earthing).

Getting A Hold Of Us

If something happens to go wrong, visit blizzardpro.com/support and open a support ticket. We'll be happy to help, honest.

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Author:	Date:	Last Edited:	Date:
J. Thomas	4/29/2025	J. Thomas	3/19/2026

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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.

- 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.

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2. MEET THE TYPHON™ IP BSW 400

Main Features

- IP66-rated, LED moving head fixture
- 400W white (6800k) LED light source, 20,000 hrs.
- Rotating gobo wheel with 7 gobos +open
- Fixed gobo wheel with 10 gobos + 2 beam reducers + open
- CMY color mixing, 8-color + open color wheel and CTO
- Pan: 540°, Tilt: 270° (8-16 bit resolution)
- 3-38° linear motorized zoom
- Motorized focus and frost effect
- 3/4-facet circular rotating prisms
- 0-30Hz strobe + variable, pulse, and random effects
- PowerCON True1-compatible power in/out

Control:

- Protocols: DMX-512, RDM
- DMX channels: 23-channel modes
- Control menu with TFT LCD display and 4 touch-sensitive buttons
- Operating modes: DMX512, m/s, manual, auto

DMX Quick Reference (23-Channel Modes)

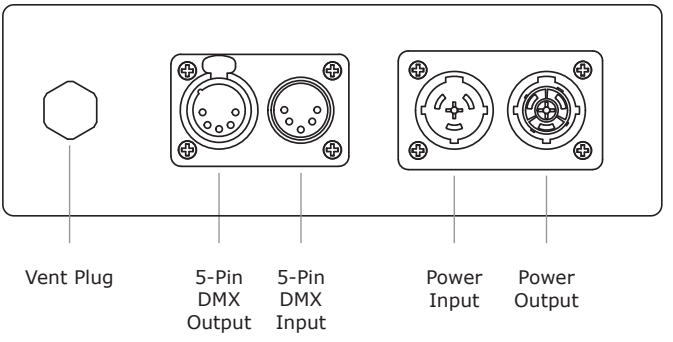
23CH	What It Does
1	Pan (540°)
2	Fine Pan (16-bit)
3	Tilt (270°)
4	Fine Tilt (16-bit)
5	Pan/Tilt Speed (fast <-> slow)
6	Dimmer (0% <-> 100%)
7	Strobe Effects
8	Cyan (0% <-> 100%)
9	Magenta (0% <-> 100%)
10	Yellow (0% <-> 100%)
11	CTO (0% <-> 100%)
12	Color Wheel
13	Gobo Wheel 1 (static)
14	Gobo Wheel 2 (rotating)
15	Gobo Rotation
16	Prism 1 (4-facet)
17	Prism 1 Rotation
18	Prism 2 (3-facet)
19	Prism 2 Rotation
20	Zoom (narrow <-> wide)
21	Focus (0% <-> 100%)
22	Frost (0% <-> 100%)
23	Reset (hold 250-255, 3 seconds)

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Typhon™ IP BSW 400 Pin-Up Picture



The 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 Typhon™ IP BSW 400 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:

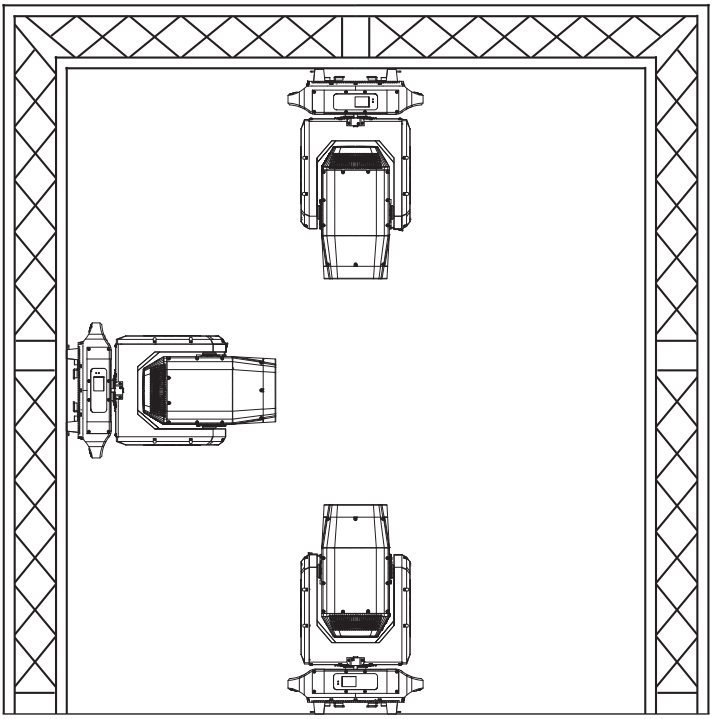
- *2-conductor twisted pair plus a shield*
- *Maximum capacitance between conductors – 30 pF/ft.*
- *Maximum capacitance between conductor & shield – 55 pF/ft.*
- *Maximum resistance of 20 ohms / 1000 ft.*
- *Nominal impedance 100 – 140 ohms*

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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Mounting Points

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.



Caution!

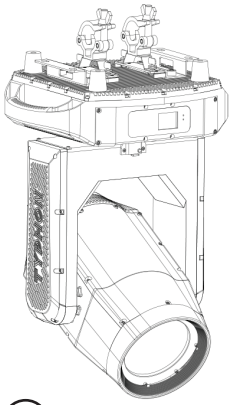
Please be aware, you should have a qualified electrician performing all of your electrical connection needs.

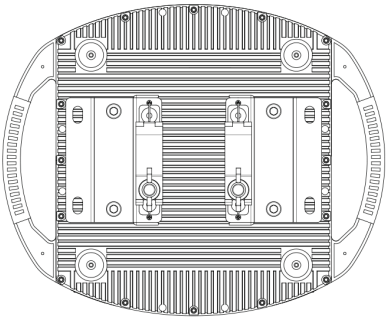
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

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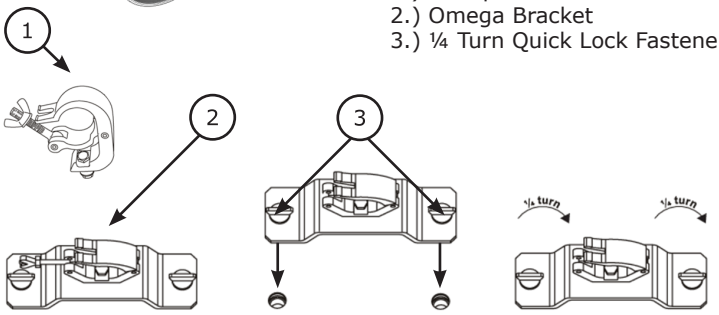
Clamp Mounting

This fixture provides a mounting bracket assembly that secures the bottom of the base, Omega Brackets, and safety cable rigging point together. When mounting this fixture to truss, be sure to secure an appropriately rated clamp to the omega bracket using a screw fitted through the center hole of the omega bracket.





1.) Clamp
2.) Omega Bracket
3.) ¼ Turn Quick Lock Fasteners



Securing the Fixture

Regardless of the rigging option you choose for your fixtures, always secure your fixtures with a safety cables. Be sure to use the designated rigging points found on the underside of the base.

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4. OPERATING ADJUSTMENTS

The Control Panel

All the features and different modes possible with the Typhon™ IP BSW 400 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.

<UP>

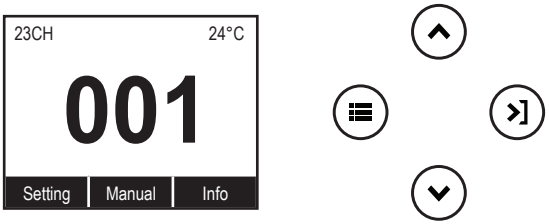
Scrolls through menu items and numbers in ascending order.

<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 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.

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Control Panel Menu Structure

Setting	Run Mode	DMX	Set to DMX run mode
		Scene	Set to scene run mode
		Auto	Auto mode
	Scene Set	Scene Select	Select a scene (1-20)
		Scene Time	Set scene run time (000-255, seconds)
		Auto Run	Auto run (Off/On)
		Scene adjustment settings (000-255):	
		1. Pan	12. Color
		2. Pan Fine	13. Static Gobos
		3. Tilt	14. Rotating Gobos
		4. Tilt Fine	15. Gobo Rotate
		5. Pan-Tilt Speed	16. Prism 1
		6. Dimmer	17. Prism 1 Rotation
		7. Shutter/Strobe	18. Prism 2
		8. Cyan	19. Prism 2 Rotation
		9. Magenta	20. Zoom
		10. Yellow	21. Focus
		11. CTO	22. Frost
	DMX Address	000-255	Set the starting DMX channel
	Device Reset	No/Yes	Resets the fixture
	Fan Mode	Standard	Standard fan mode
		Low Noise	Low noise fan mode
	Screen Rotation	Off/On	Rotates the menu display by 180°
	Screen Lock	Off/On	Unlock = Up, Up, Down, Down, Enter
	Invert Pan	Off/On	Inverts pan control direction
	Invert Tilt	Off/On	Inverts tilt control direction
	Pan-Tilt Swap	Off/On	Swap the pan/tilt channels
	Pan-Tilt Encoder	Off/On	Pan/Tilt optical sensors off/on
	DMX Loss	Blackout	Blackout if DMX signal is lost
		Hold	Holds last signal if DMX signal is lost
	Clear Scene Data	No/Yes	Resets scenes 1-20
	Load Default	No/Yes	Loads factory default settings
	Factory	Input Password	Calibration settings (factory use only)
Manual	**<ENTER>**	*Manual Adjustments (000-255):*	
		1. Pan	13. Static Gobos
		2. Pan Fine	14. Rotating Gobos
		3. Tilt	15. Gobo Rotate
		4. Tilt Fine	16. Prism 1
		5. Pan-Tilt Speed	17. Prism 1 Rotation
		6. Dimmer	18. Prism 2
		7. Shutter/Strobe	19. Prism 2 Rotation
		8. Cyan	20. Zoom
		9. Magenta	21. Focus
		10. Yellow	22. Frost
		11. CTO	23. Reset (hold 250-255, 3 seconds)
		12. Color	--
Info	**<ENTER>**	Version	Firmware version information
		Time Information	Displays lamp and usage times
		System Warning	Displays system errors
		MT Hall	Hall effect sensor status
		Panwheel Step	Pan motor step value
		Tiltwheel Step	Tilt motor step value
		Authority Hours	Authority usage hours

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DMX Mode

1. Navigate to **Setting > Run Mode > DMX**
2. Press **<ENTER>** to confirm.

Select the Starting DMX Address

1. Navigate to **Setting > DMX Address**
2. Select a starting DMX address ranging from **001-512**. Press **<ENTER>** to confirm.

Slave Mode

1. Daisy chain the DMX in/out connections on all fixtures.
2. There is nothing else to it! The first fixture in the DMX chain is the master fixture, and the other fixtures down the line will follow it.

Scene Mode

1. Navigate to **Setting > Run Mode > Scene**
2. Press **<ENTER>** to confirm. The fixture will now run custom internal scenes.

Setting up scenes:

1. Navigate to **Setting > Scene Set**
2. Highlight **Scene Select** and press **<ENTER>**.
3. Use **<UP/DOWN>** to choose a scene **(1–20)**, then press **<ENTER>** to edit.

Each scene includes:

1. **Scene Time** – How long the scene plays (0–255 seconds).
2. **Auto Run** – Enables or disables this scene during playback. Set to **On** to include this scene, or set to **Off** to skip it.

Important:

1. Only scenes with **Auto Run = On** will be used when Scene Mode is active.
2. If all scenes are set to **Off**, the fixture will not run anything when in Scene Mode.
3. Scenes play in numerical order based on those that are enabled.

Clear scene data:

1. This menu option turns **Auto Run = Off** for all scenes and resets each **Scene Time** to **5s**.
2. All other parameters in each scene **will adopt the values of the last edited scene** at the time **Clear Scene Data** is executed.
3. To zero out all scenes:
   - Edit **any** single scene, set all values to **0**, exit to save.
   - Then go to **Clear Scene Data**, select **Yes**, and press **<ENTER>**.

Auto Mode

1. Navigate to **Setting > Run Mode > Auto**
2. Press **<ENTER>** to confirm.

Manual Mode

This menu lets you manually adjust parameters like pan, tilt, dimmer, color, etc.

1. From the top level of the menu, highlight **Manual**.
2. Press **<ENTER>** to confirm.

Important note – to use Manual Mode most effectively:

1. Set the **Run Mode to DMX**, but **do not connect an active DMX signal**. This prevents any manually set values here from being overridden when you exit the Manual menu.
2. Also note that *if a DMX signal is still active, or if you're in Scene or Auto mode*:
   - Manual adjustments here are temporary.
   - Values will reset to the current signal source when you exit or re-enter the menu.

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DMX Values In-Depth (23-Channel Modes)

23CH	Value	What It Does
1	000 <-> 255	Pan (540°)
2	000 <-> 255	Fine Pan (16-bit)
3	000 <-> 255	Tilt (270°)
4	000 <-> 255	Fine Tilt (16-bit)
5	000 <-> 255	Pan/Tilt Speed (fast <-> slow)
6	000 <-> 255	Dimmer (0% <-> 100%)
7	 000 <-> 003 004 <-> 103 104 <-> 107 108 <-> 207 208 <-> 212 213 <-> 251 252 <-> 255	**Strobe** Open Pulse Strobe (slow <-> fast) Open Strobe (slow <-> fast) Open Random Strobe (slow <-> fast) Open
8	000 <-> 255	Cyan (0% <-> 100%)
9	000 <-> 255	Magenta (0% <-> 100%)
10	000 <-> 255	Yellow (0% <-> 100%)
11	000 <-> 255	CTO (0% <-> 100%)
12	 000 <-> 002 003 <-> 007 008 <-> 012 013 <-> 017 018 <-> 022 023 <-> 027 028 <-> 032 033 <-> 037 038 <-> 042 043 <-> 047 048 <-> 052 053 <-> 057 058 <-> 062 063 <-> 067 068 <-> 072 073 <-> 077 078 <-> 082 083 <-> 169 170 <-> 255	**Color Wheel** Open Open + Red Red Red + Yellow Yellow Yellow + Blue Blue Blue + Green Green Green + Magenta Magenta Magenta + Orange Orange Orange + Cyan Cyan Cyan + Violet Violet Forward Flow (fast <-> slow) Reverse Flow (slow <-> fast)
13	 000 <-> 004 005 <-> 009 010 <-> 014 015 <-> 019 020 <-> 024 025 <-> 029 030 <-> 034 035 <-> 039 040 <-> 044 045 <-> 049 050 <-> 054 055 <-> 059 060 <-> 064 065 <-> 069 070 <-> 074 075 <-> 079 080 <-> 084	**Gobo Wheel 1 (Static)** Open Large Reducer Small Reducer Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Gobo 10 Large Reducer Shake (slow <-> fast) Small Reducer Shake (slow <-> fast) Gobo 1 Shake (slow <-> fast) Gobo 2 Shake (slow <-> fast)

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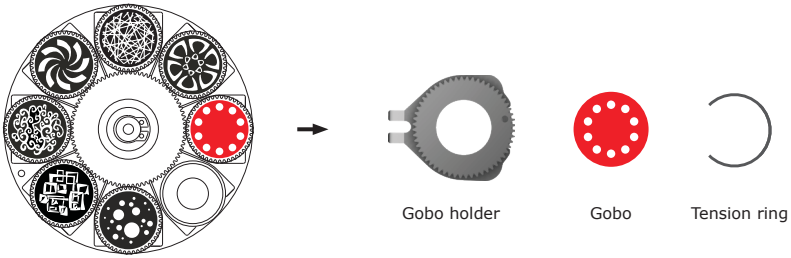
DMX Values In-Depth (23-Channel Modes)

23CH	Value	What It Does
13	085 <-> 089	Gobo 3 Shake (slow <-> fast)
	090 <-> 094	Gobo 4 Shake (slow <-> fast)
	095 <-> 099	Gobo 5 Shake (slow <-> fast)
	100 <-> 104	Gobo 6 Shake (slow <-> fast)
	105 <-> 109	Gobo 7 Shake (slow <-> fast)
	110 <-> 114	Gobo 8 Shake (slow <-> fast)
	115 <-> 119	Gobo 9 Shake (slow <-> fast)
	120 <-> 124	Gobo 10 Shake (slow <-> fast)
	125 <-> 191	Reverse Flow (fast <-> slow)
	192 <-> 255	Forward Flow (slow <-> fast)
14		**Gobo Wheel 2 (Rotating)**
	000 <-> 009	Open
	010 <-> 019	Gobo 1
	020 <-> 029	Gobo 2
	030 <-> 039	Gobo 3
	040 <-> 049	Gobo 4
	050 <-> 059	Gobo 5
	060 <-> 069	Gobo 6
	070 <-> 079	Gobo 7
	080 <-> 089	Gobo 1 Shake (slow <-> fast)
	090 <-> 099	Gobo 2 Shake (slow <-> fast)
	100 <-> 109	Gobo 3 Shake (slow <-> fast)
	110 <-> 119	Gobo 4 Shake (slow <-> fast)
	120 <-> 129	Gobo 5 Shake (slow <-> fast)
	130 <-> 139	Gobo 6 Shake (slow <-> fast)
	140 <-> 149	Gobo 7 Shake (slow <-> fast)
	150 <-> 200	Forward Flow (fast <-> slow)
	201 <-> 255	Reverse Flow (slow <-> fast)
15		**Gobo Rotation**
	000 <-> 127	Index (angle adjustment)
	128 <-> 190	Forward Rotation (fast <-> slow)
	191 <-> 192	Stop
	193 <-> 255	Reverse Rotation (slow <-> fast)
16		**Prism 1**
	000 <-> 127	Prism Out
	128 <-> 255	Prism In (4-facet)
17		**Prism 1 Rotation**
	000 <-> 127	Index (angle adjustment)
	128 <-> 190	Forward Rotation (fast <-> slow)
	191 <-> 192	Stop
	193 <-> 255	Reverse Rotation (slow <-> fast)
18		**Prism 2**
	000 <-> 127	Prism Out
	128 <-> 255	Prism In (3-facet)
19		**Prism 2 Rotation**
	000 <-> 127	Index (angle adjustment)
	128 <-> 190	Forward Rotation (fast <-> slow)
	191 <-> 192	Stop
	193 <-> 255	Reverse Rotation (slow <-> fast)
20	000 <-> 255	Zoom (narrow <-> wide)
21	000 <-> 255	Focus
22		**Frost**
	000 <-> 127	No function
	128 <-> 255	Frost (0% <-> 100%)
23		**Reset**
	000 <-> 249	No Function
	250 <-> 255	Reset (hold for 3 seconds)

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Gobo Replacement

1. Remove the gobo cover by removing the four screws on the top of the fixture head.
2. Remove the slot-n-lock gobo from the wheel by lifting up slightly and sliding it out.
3. Using a small tool, pry the tension ring from the gobo holder.
4. Remove the old gobo, insert the new gobo, and replace using the reverse steps.



Rotating Gobos





Static Gobos





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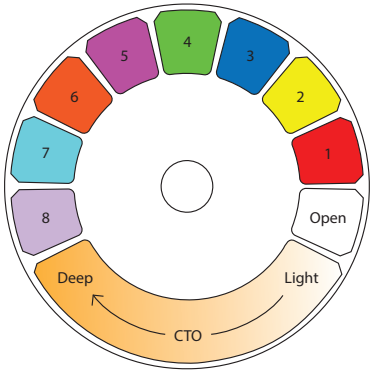
Color Wheel

In addition to CMY color mixing, this fixture features an 8 + open color wheel.

The color wheel also includes a CTO filter that gradually shifts the beam from daylight-balanced white to a warmer tungsten-like hue, simulating different color temperatures for theatrical or mood lighting effects.

Colors

1.) Red
2.) Yellow
3.) Blue
4.) Green
5.) Magenta
6.) Orange
7.) Cyan
8.) Violet



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5. APPENDIX

Keeping Your Typhon™ IP BSW 400 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.

Use a new microfiber rag to gently clean your lenses (paper towels and cotton towels will scratch them). To clean the fans, gently brush them with an eyelash brush and vacuum up any leftover debris - and make sure to hold the fans so they do not spin when vacuuming. *Do not use compressed air, this will push the dirt further into your fixture.

In transit, keep your 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 fixtures.

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!

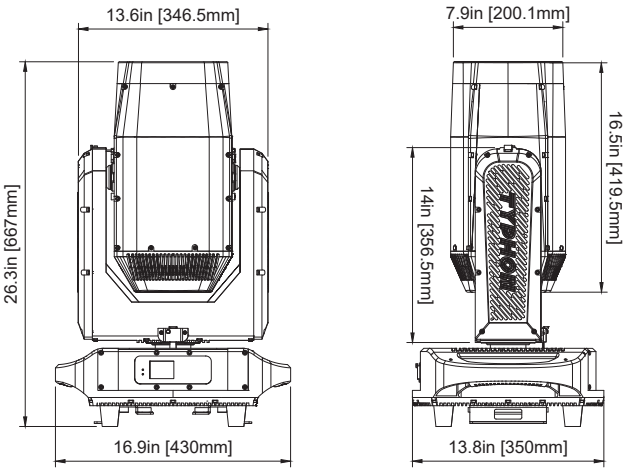
Weight & Dimensions	
Width	16.9 inches (430 mm)
Depth	13.8 inches (350 mm)
Height	26.3 inches (667 mm)
Weight	62.8 lbs. (28.5 kg)
Power	
Operating Voltage	100V-240VAC, 50-60Hz
Power Consumption	508W, 4.47A, PF: .99
Light Source	
LED	400W white LED, 20,000 hrs.
Color Temperature	6800K
CRI	72
Optical	
Beam Angle	3°- 38° beam angle
Gobo Size	19.7mm outer, 13mm inner
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Movement Range	
Pan	540° (8-16 bit resolution)
Tilt	270° (8-16 bit resolution)
Control	
Protocol	USITT DMX-512
Modes/Personalities	23-channel mode
Data	5-pin XLR in/out
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LEDs.

Troubleshooting

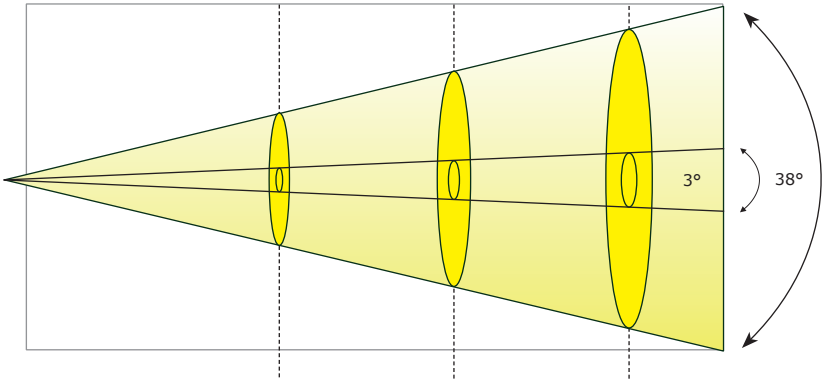
Symptom	Solution
Fixture Auto-Shut Off	Check the fan in the fixture. If it is stopped or moving slower than normal, the unit may have shut itself off due to high heat. This is to protect the fixture from overheating. Clear the fan of obstructions, or return the unit for service.
Beam is Dim	Check optical system and clean excess dust/grime.
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
Slow Movement	Check that speed channels are set appropriately.
Fixture Not Responding / Responding Erratically	Make sure all connectors are seated properly and securely. Use Only DMX Cables. Install a Terminator. Check all cables for defects. Reset fixture(s).

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Dimensional Drawings



Photometric Data



Distance:	10m	15m	20m
3° beam diameter	1.8' (54 cm)	2.7' (81 cm)	3.55' (108 cm)
38° beam diameter	22.5' (684 cm)	33.7' (1,026 cm)	44.9' (1,368 cm)

Luminous Intensity:

Beam	10m lux	10m fc	15m lux	15m fc	20m lux	20m fc
3°	27,759	2,578.9	12,244	1,137.5	6,865	637.8
38°	650	60.4	309	28.7	177	16.5

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