GMIX™ 200

TABLE OF CONTENTS

1. GETTING STARTED

What's In The Box?

- 1 x G-Mix™ 200
- An Ever-So-Handy Power Cord
- 1 x Set of Mounting Brackets
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on your purchase of the G-Mix™ 200! Now that you've got your G-Mix™ 200 *(or hopefully more)*, 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**.

See the label on the fixture or refer to the fixture's specifications for more information. The listed current rating is its average current draw under normal conditions. All fixtures must be connected to circuits with a suitable Ground (Earthing).

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

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

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

Author:	Date:	Last Edited:	Date:
J. Thomas	7/7/2017	J. Thomas	12/17/2018

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.blizzardlighting.com/support.

2. MEET THE G-MIX™ 200

MAIN FEATURES

- 200W OSRAM® white LED light engine
- Pan: 540°/Tilt: 270° (8-16 bit resolution)
- CMY color mixing system
- 9 dichroic color filters + open
- 7 rotating, indexable and replaceable slot-n-lock glass gobos + open
- Static gobo wheel: 7 metal gobos + open
- Linear motorized zoom (5°- 42°)
- 3/8-facet bidirectional rotating prism
- Motorized linear iris and frost
- Color temperature: 6500K, CRI=80
- Linear electronic focus + auto focus
- Strobe effect with variable speed (max.15 flashes/sec.)
- Smooth dimmer from 0 - 100%
- 3/5-pin XLR male and female DMX In/Out

CONTROL:

- Protocol: USITT DMX-512
- DMX channels: 25/30-channel
- 5-button LCD control panel menu
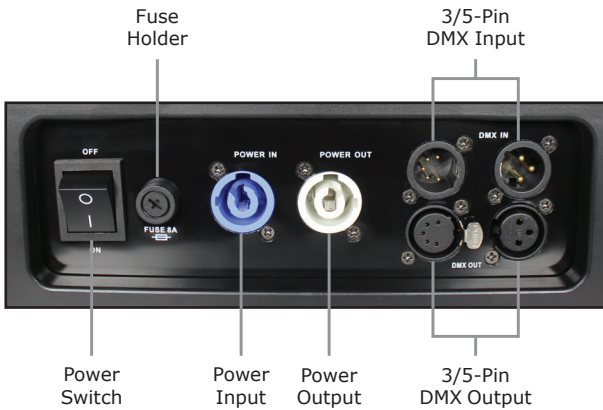- Operating modes: standalone, master/slave, auto

DMX Quick Reference (25/30-Channel Modes)

Channel	Standard Mode (25ch)	Channel	Extended Mode (30ch)
1	Pan (0-540°)	1	Pan (0-540°)
2	Fine Pan (16-bit)	2	Fine Pan (16-bit)
3	Tilt (0-270°)	3	Tilt (0-270°)
4	Fine Tilt (16-bit)	4	Fine Tilt (16-bit)
5	Pan & Tilt Speed (fast <--> slow)	5	Pan & Tilt Speed (fast <--> slow)
6	Dimmer	6	Dimmer
7	Strobe/Shutter	7	Dimmer Fine
8	Cyan Intensity (0% <--> 100%)	8	Strobe/Shutter
9	Magenta Intensity (0% <--> 100%)	9	Cyan Intensity (0% <--> 100%)
10	Yellow Intensity (0% <--> 100%)	10	Magenta Intensity (0% <--> 100%)
11	Color 1 (0% <--> 100%)	11	Yellow Intensity (0% <--> 100%)
12	Color 2 (0% <--> 100%)	12	Color 1 (0% <--> 100%)
13	Color 3 (0% <--> 100%)	13	Color 2 (0% <--> 100%)
14	Static Gobo Wheel	14	Color 3 (0% <--> 100%)
15	Rotating Gobo Wheel	15	Static Gobo Wheel
16	Gobo Rotation	16	Rotating Gobo Wheel
17	Focus (0% <--> 100%)	17	Gobo Rotation
18	Zoom (0% <--> 100%)	18	Gobo Rotation Fine (0% <--> 100%)
19	Prism 1 (3-facet)	19	Focus (0% <--> 100%)
20	Prism 1 Rotate	20	Focus Fine (0% <--> 100%)
21	Prism 2 (8-facet)	21	Auto Focus
22	Prism 2 Rotate	22	Zoom (0% <--> 100%)
23	Iris (0% <--> 100%)	23	Zoom Fine (0% <--> 100%)
24	Frost (0% <--> 100%)	24	Prism 1 (3-facet)
25	Reset	25	Prism 1 Rotate
--	--	26	Prism 2 (8-facet)
--	--	27	Prism 2 Rotate
--	--	28	Iris (0% <--> 100%)
--	--	29	Frost (0% <--> 100%)
--	--	30	Reset

Figure 1: G-Mix™ 200 Pin-Up Picture

200W White LED
Light Engine

Head/Arms

LCD
Display

Control
Buttons

Carry
Handle

Figure 2: Rear Connections

Fuse
Holder

3/5-Pin
DMX Input

OFF

POWER IN

POWER OUT

DMX IN

FUSE 8A

DMX OUT

ON

Power
Switch

Power
Input

Power
Output

3/5-Pin
DMX Output

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3. SETUP

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

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 G-Mix™ 200 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*

Cable Connectors

Cables must have a male XLR connector on one end and a female XLR connector on the other end. (Duh!)
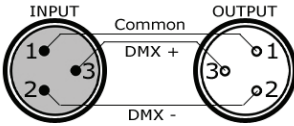
A Word on Termination: DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practices include use of a terminator in all circumstances. If you are experiencing problems with erratic fixture behavior, especially over 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.

120-ohm, 1/4-watt resistor
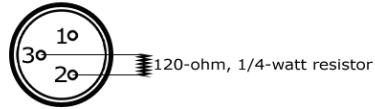
CAUTION: Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

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

If you use a controller with a 5-pin DMX output connector, it's no problem! You can simply use the installed 5-pin DMX input and/or output connections found on the back of your fixture(s).

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	Pin 4
Data 2+ (Optional Secondary Data Link)	Pin 5	Pin 5

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

To Next Fixture

DMX IN   DMX OUT

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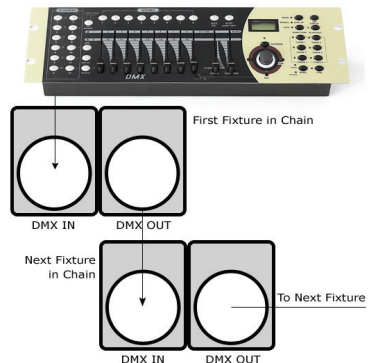
Fixture Linking (Master/Slave Mode)

1. Connect the (male) 3/5-pin connector side of the DMX cable to the output (female) 3/5-pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 3/5-pin connector to the input connector of the next fixture consisting of a (male) 3/5-pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

First Fixture in Chain

DMX IN   DMX OUT

Next Fixture
in Chain

To Next Fixture

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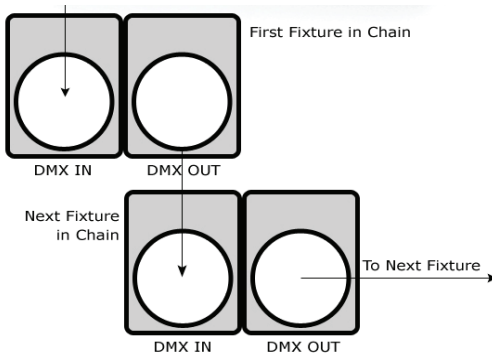
A quick note: Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondarily, the fixtures that follow may also require a slave setting.

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

Mounting & Rigging

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

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

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

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

• Safety cables MUST ALWAYS be used.

• Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

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.
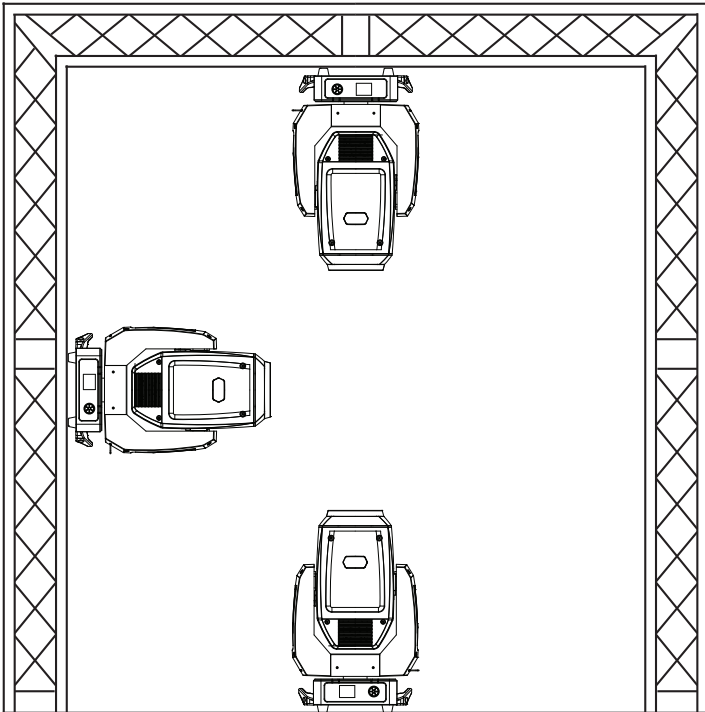

Caution!

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, 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 using an M12 screw fitted through the center hole of the "omega bracket".

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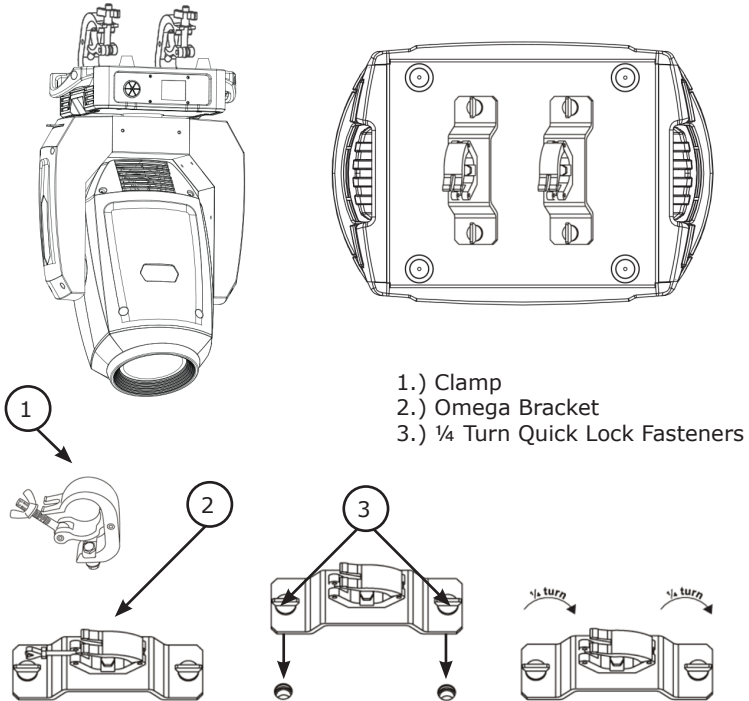
Securing the Fixture

Regardless of the rigging option you choose for your fixtures always 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.

4. OPERATING ADJUSTMENTS

The Control Panel

All the goodies and different modes possible with the G-Mix™ 200 are accessed by using the control panel on the front of the fixture. There are 5 control buttons next to the LCD display which 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.
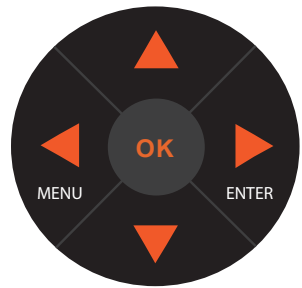
<DOWN>

Scrolls through menu items and numbers in descending order.

<OK>

Is used to save any changes made to a menu setting.

<MENU>

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

Access control panel functions using the five panel buttons located directly to the right of the LCD display.

The control panel LCD display shows the menu items you select from the menu map on page #13. 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>, <DOWN>,** and **<ENTER>** buttons to navigate the menu map and menu options. Press the **<OK>** button 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

Address	001-512	Set DMX Address	
Fixture	Channel Mode	Extended	30-channel mode
		Standard	25-channel mode
	Pan/Tilt	Invert Pan	Off/On
		Invert Tilt	Off/On
		Swap Pan-Tilt	Off/On
	Curve	Curve 1 - Exp-Curve (exponential)	
		Curve 2 - Linear	
		Curve 3 - Log-Curve (logarithmic)	
		Curve 4 - S-Curve	
	Reset	Head Reset	
		Pan/Tilt	
		All Reset	
	Calibration	Pan	0-127
		Tilt	0-127
	Hidden by default. To enter calibration, you must be in the "Fixture" submenu, then press and hold down the <UP> and <DOWN> buttons together for 1 second.	Cyan	0-127
		Magenta	0-127
		Yellow	0-127
		Fixed Gobo	0-127
		Rot-Gobo	0-127
		Rot-Gobo-Rot	0-127
		Iris	0-127
		Prism1	0-127
		Prism1-Rot	0-127
		Prism2	0-127
		Prism2-Rot	0-127
		Frost	0-127
		Focus	0-127
		Zoom	0-127
Manual	Pan	0-255	
	Tilt	0-255	
	Dimmer	0-255	
	Strobe	0-255	
	Cyan	0-255	
	Magenta	0-255	
	Yellow	0-255	
	Color 1	0-255	
	Color 2	0-255	
	Color 3	0-255	
	Fixed-Gobo	0-255	
	Rot-Gobo	0-255	
	Rot-Gobo Rot	0-255	
	Iris	0-255	
	Prism 1 (3-facet)	0-255	
	Prism 1 Rot	0-255	
	Prism 2 (8-facet)	0-255	
	Prism 2 Rot	0-255	
	Frost	0-255	
	Focus	0-255	
	Zoom	0-255	
Run Mode	Stop		
	Auto program 1		
	Auto program 2		
	Auto program 3		
System	Language	Chinese	
		English	
	Backlight setting	Auto	
		Keep on	
	Display	Normal	
		Invert	

DMX Values In-Depth (25/30-Channel Modes)

Standard 25CH	Extended 30CH	Value	What it does
1	1	000 <-> 255	Pan (0-540°)
2	2	000 <-> 255	Fine Pan (16-bit)
3	3	000 <-> 255	Tilt (0-270°)
4	4	000 <-> 255	Fine Tilt (16-bit)
5	5	000 <-> 255	Pan & Tilt Speed (fast <--> slow)
6	6	000 <-> 255	Dimmer
--	7	000 <-> 255	Dimmer Fine
7	8	000 <-> 003 004 <-> 103 104 <-> 107 108 <-> 207 208 <-> 212 213 <-> 251 252 <-> 255	**Strobe/Shutter** Close Strobe (slow <--> fast) Open Pulse (slow <--> fast) Open Random Open
8	9	000 <-> 255	Cyan Intensity (0% <--> 100%)
9	10	000 <-> 255	Magenta Intensity (0% <--> 100%)
10	11	000 <-> 255	Yellow Intensity (0% <--> 100%)
11	12	000 <-> 255	Color 1 (3 colors, linear adjustment)
12	13	000 <-> 255	Color 2 (3 colors, linear adjustment)
13	14	000 <-> 255	Color 3 (3 colors, linear adjustment)
14	15	000 <-> 009 010 <-> 019 020 <-> 029 030 <-> 039 040 <-> 049 050 <-> 059 060 <-> 069 070 <-> 079 080 <-> 089 090 <-> 099 100 <-> 109 110 <-> 119 120 <-> 129 130 <-> 139 140 <-> 149 150 <-> 151 152 <-> 199 200 <-> 201 202 <-> 253 254 <-> 255	**Static Gobo Wheel** Open (white) Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 1 Shake (slow <--> fast) Gobo 2 Shake (slow <--> fast) Gobo 3 Shake (slow <--> fast) Gobo 4 Shake (slow <--> fast) Gobo 5 Shake (slow <--> fast) Gobo 6 Shake (slow <--> fast) Gobo 7 Shake (slow <--> fast) Stop Clockwise Rotation (fast <-> slow) Stop Counter-Clockwise Rotation (slow <-> fast) Stop
15	16	000 <-> 009 010 <-> 019 020 <-> 029 030 <-> 039 040 <-> 049 050 <-> 059 060 <-> 069 070 <-> 079 080 <-> 089 090 <-> 099 100 <-> 109 110 <-> 119 120 <-> 129 130 <-> 139 140 <-> 149 150 <-> 151 152 <-> 199 200 <-> 201 202 <-> 253 254 <-> 255	**Rotating Gobo Wheel** Open (white) Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 1 Shake (slow <--> fast) Gobo 2 Shake (slow <--> fast) Gobo 3 Shake (slow <--> fast) Gobo 4 Shake (slow <--> fast) Gobo 5 Shake (slow <--> fast) Gobo 6 Shake (slow <--> fast) Gobo 7 Shake (slow <--> fast) Stop Clockwise Rotation (fast <-> slow) Stop Counter-Clockwise Rotation (slow <-> fast) Stop

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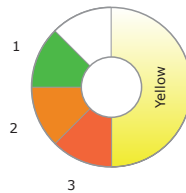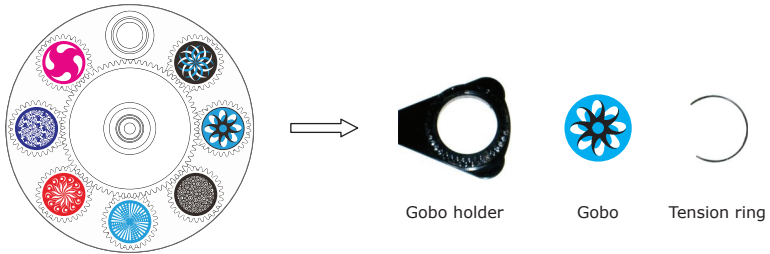| Standard 25CH	Extended 30CH	Value	What it does
16	17	000 <-> 127 128 <-> 129 200 <-> 189 190 <-> 191 192 <-> 253 254 <-> 255	**Gobo Rotation** Gobo Position Stop Clockwise Rotation (fast <-> slow) Stop (no rotation) Counter-Clockwise Rotation (slow <-> fast) Stop
--	18	000 <-> 255	Gobo Rotation Fine (0% <--> 100%)
17	19	000 <-> 255	Focus (0% <--> 100%)
--	20	000 <-> 255	Focus Fine (0% <--> 100%)
--	21	000 <-> 055 056 <-> 105 106 <-> 155 156 <-> 205 206 <-> 255	**Auto Focus** Disabled 3m Auto Focus 5m Auto Focus 10m Auto Focus 15m Auto Focus
18	22	000 <-> 255	Zoom (0% <--> 100%)
--	23	000 <-> 255	Zoom Fine (0% <--> 100%)
19	24	000 <-> 127 128 <-> 255	**Prism 1 (3-facet)** Prism Out Prism In
20	25	000 <-> 127 128 <-> 129 130 <-> 189 190 <-> 191 192 <-> 253 254 <-> 255	**Prism 1 Rotate** Rotate (0% <--> 100%) Stop Clockwise Rotation (slow <-> fast) Stop Counter-Clockwise Rotation (slow <-> fast) Stop
21	26	000 <-> 127 128 <-> 255	**Prism 2 (8-facet)** Prism Out Prism In
22	27	000 <-> 127 128 <-> 129 130 <-> 189 190 <-> 191 192 <-> 253 254 <-> 255	**Prism 2 Rotate** Rotate (0% <--> 100%) Stop Clockwise Rotation (slow <-> fast) Stop Counter-Clockwise Rotation (slow <-> fast) Stop
23	28	000 <-> 255	Iris (0% <--> 100%)
24	29	000 <-> 255	Frost (0% <--> 100%)
25	30	000 <-> 031 032 <-> 063 064 <-> 095 096 <-> 127 128 <-> 159 160 <-> 191 192 <-> 223 224 <-> 255	**Reset** No Function Pan/Tilt Reset Head Reset Complete Reset Exp-Curve Linear Log-Curve S-Curve

Color Wheel 1

Color Wheel 2

Color Wheel 3

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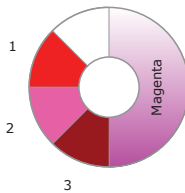
Gobo Replacement

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 gobo 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 in the reverse steps of removal.

Gobo holder   Gobo   Tension ring

Rotating Gobos

1   2   3   4

5   6   7

Static Gobos

1   2   3   4

5   6   7

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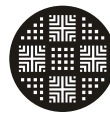
5. APPENDIX

Keeping Your G-Mix™ 200 As Good As New

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

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

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

Common sense and taking care of your fixtures will be the single biggest thing
you can do to keep them running at peak performance and let you worry about
designing a great light show, putting on a great concert, or maximizing your cli-
ent'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 Authori-
zation (RA).

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

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

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

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

Shipping Issues

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

Tech Specs!

| Weight & Dimensions	
Width	16.4 inches (417 mm)
Depth	11.4 inches (288.6 mm)
Height	25.5 inches (648.3 mm)
Weight	41.9 lbs. (19 kg)
Power	
Operating Voltage	100V-240VAC, 50-60Hz
Power Consumption	334W, 2.7A, PF: .99
Fuse	8A, 250V (5mm x20mm)
Light Source	
LED	200W OSRAM® white LED light engine
Color Temperature	6500K, CRI=80
Optical	
Beam Angle	5°- 42° beam angle
Gobo Size	22.9mm outer, 20mm image, 2.2mm max thickness
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Movement Range	
Pan	540 degree (8-16 bit resolution)
Tilt	270 degree (8-16 bit resolution)
Control	
Protocol	USITT DMX-512
DMX Channels	25/30-channel DMX Modes
Data	3/5-pin XLR In/Out
Other Operating Modes	Standalone, Master/Slave, Auto
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
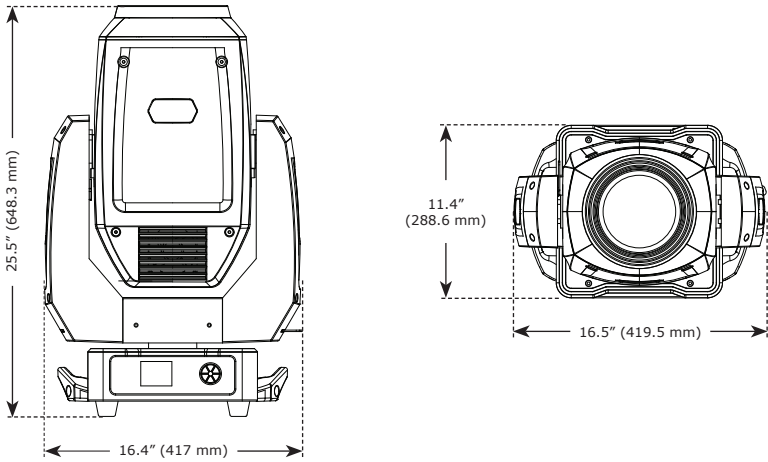
Photometric Data
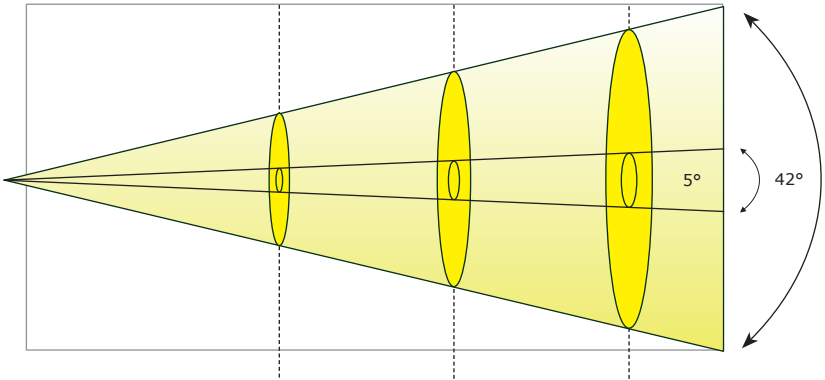
Distance:	3m	5m	10m
5° beam diameter	.9' (27 cm)	1.5' (45 cm)	2.9' (90 cm)
42° beam diameter	7.6' (230 cm)	12.4' (378 cm)	24.8' (756 cm)

Luminous Intensity:

Beam	3m lux	3m fc	5m lux	5m fc	10m lux	10m fc
5°	122,613	11,391.1	48,988	4,551.2	11,200	1,040.6
42°	2,472	229.7	849	78.9	245	22.7

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