STILETTO
RAY-Z™

❄ blizzard

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1. GETTING STARTED

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- Stiletto™ Ray-Z
- An Ever-So-Handy Power Cord
- 1 x Set of Mounting Brackets
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- This Lovely User Manual

Getting It Out Of The Box

Congratulations on purchasing the Stiletto™ Ray-Z professional LED moving head fixture! Now that you've got your Stiletto™ Ray-Z, 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 goes wrong, please visit www.blizzardpro.com/support and open a support ticket. We'll be happy to help, honest.

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SAFETY INSTRUCTIONS

Please read these instructions carefully. They include important information about the installation, usage and maintenance of this product.

• Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.

• ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

• This product is intended for indoor use only.

• To prevent risk of fire or shock, do not expose fixture to rain or moisture.

• Make sure there are no flammable materials close to the unit while operating.

• The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

• ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.

• ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its head. Use its carrying handles.

• DO NOT operate at ambient temperatures higher than 104°F (40°C).

• In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

• NEVER connect the device to a dimmer pack.

• Make sure the power cord is never crimped or damaged.

• Never disconnect the power cord by pulling or tugging on the cord.

• Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please open a support ticket at www.blizzardpro.com/support.

2. MEET THE STILETTO™ RAY-Z

MAIN FEATURES

- 7* 40W OSRAM™ RGBW flicker-free LEDs, 100,000 hours
- Beam angle: 4.5°-36° with electronic zoom
- RGBW color mixing + pixel effects
- Smooth electronic dimming with 16-bit control
- 8/16 bit smooth and precise pan and tilt resolution
- Pan: 540°/ Tilt: 200° with ultra-fast 3-phase motors
- Built-in color macros & 1-25Hz strobe effects
- Individual pixel control in extended 38-channel DMX mode
- 2x RJ45 Ethernet input/output data connections
- 5-pin DMX input/output connections
- PowerCON™ compatible AC power input/output

CONTROL:

- Protocols: DMX-512, RDM, Art-Net, Kling-Net, and sACN
- DMX channels: 15/18/38-channel modes
- Easy-to-use 5-button control panel with LCD color display
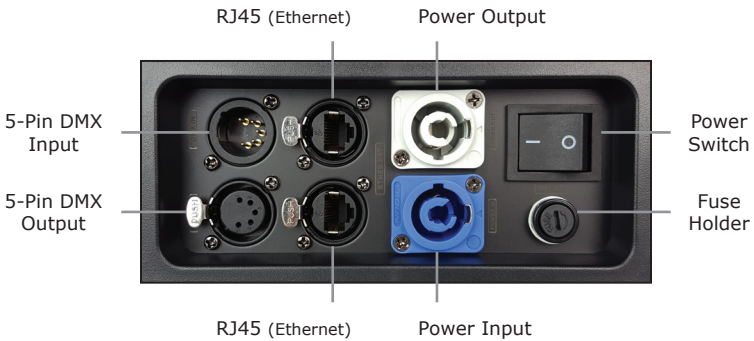- Operating modes: DMX512, master/slave, auto, & sound active mode

DMX Quick Reference (15/18/38-Channel Modes)

15CH BAC	18CH STD	38CH EXT	What It Does
1	1	1	Pan
--	2	2	Fine Pan (16-bit)
2	3	3	Tilt
--	4	4	Fine Tilt (16-bit)
3	5	5	Pan/Tilt Speed
4	6	6	Dimmer
--	7	7	Dimmer Fine
5	8	8	Strobe
6	9	9	Zoom (wide <-> narrow)
7	10	--	Red Intensity
8	11	--	Green Intensity
9	12	--	Blue Intensity
10	13	--	White Intensity
11	14	--	Color Macros (overrides R/G/B/W channels)
12	15	--	Background Color (for shape macro)
13	16	--	Shape Macro
14	17	--	Shape Macro Speed
15	18	10	Reset
--	--	11-14	Pixel 1 - R/G/B/W Dimmer Channels
--	--	15-18	Pixel 2 - R/G/B/W Dimmer Channels
--	--	19-22	Pixel 3 - R/G/B/W Dimmer Channels
--	--	23-26	Pixel 4 - R/G/B/W Dimmer Channels
--	--	27-30	Pixel 5 - R/G/B/W Dimmer Channels
--	--	31-34	Pixel 6 - R/G/B/W Dimmer Channels
--	--	35-38	Pixel 7 - R/G/B/W Dimmer Channels

Figure 1: The Stiletto™ Ray-Z Pin-Up Picture

Head/Arms

7x 40W 4-in-1 RGBW LEDs

5-Button Control Panel Menu with LCD Display

Figure 2: The Rear Connections

RJ45 (Ethernet)

Power Output

5-Pin DMX Input

5-Pin DMX Output

Power Switch

Fuse Holder

RJ45 (Ethernet)

Power Input

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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 Stiletto™ Ray-Z 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!)
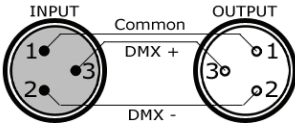
A Word on Termination: DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practices include use of a terminator in all circumstances. If you are experiencing problems with erratic fixture behavior, especially over 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
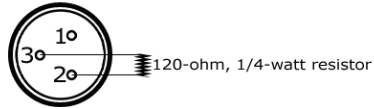
CAUTION: Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

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

If you use a controller with only a 3-pin DMX output connector, you will need to use a 3-pin to 5-pin adapter. They are widely available over the internet and from specialty retailers. If you'd like to build your own, the chart below details a proper cable conversion:

Conductor	3-pin Male (Input)	5-Pin Female (Output)
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)	n/c	Pin 4
Data 2+ (Optional Secondary Data Link)	n/c	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.

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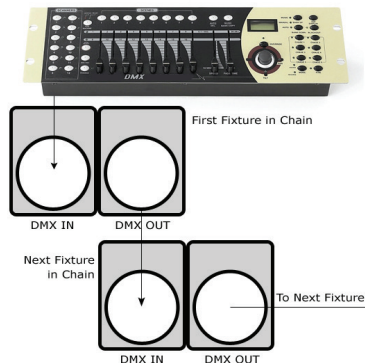
Fixture Linking (Master/Slave Mode)

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.

First Fixture in Chain

DMX IN   DMX OUT

Next Fixture in Chain

DMX IN   DMX OUT

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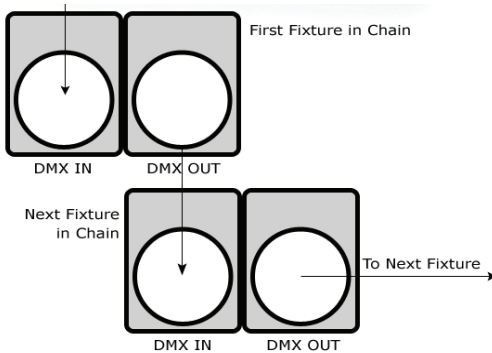
A quick note: Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondarily, the fixtures that follow may also require a slave setting.

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.

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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.
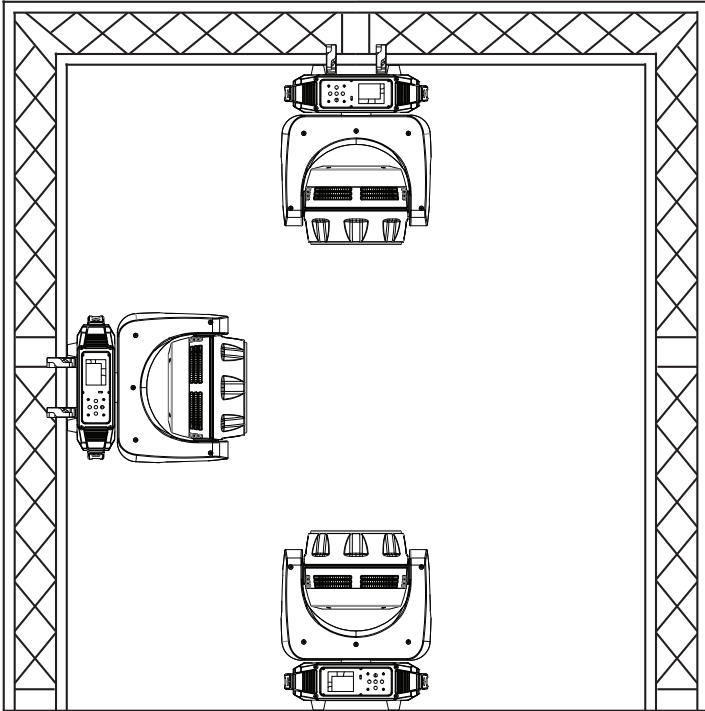
Caution!

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.

Clamp Mounting

This fixture provides a mounting bracket assembly that secures the bottom of the base, omega brackets, and the safety cable rigging point together. When mounting this fixture to truss, be sure to secure appropriately rated clamps to the brackets using an M10 screw fitted through the center holes of the brackets.
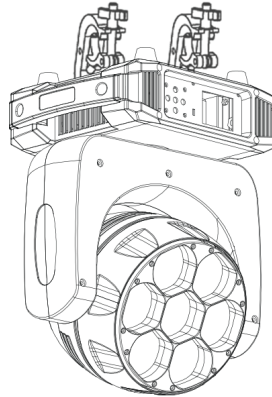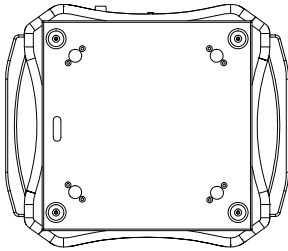
1.) Clamp
2.) Omega Bracket
3.) ¼ Turn Quick Lock Fasteners
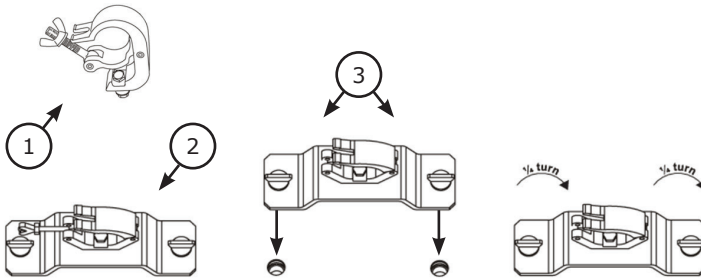
Securing the Fixture

For overhead use, always install a safety cable that can hold at least 10 times the weight of the fixture. Loop the safety cable through the hole located under the base of the fixture.

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. There are 5 control buttons next to the LCD display which allow you to navigate through the various control panel menus.

<INVERT> *(Right)*

From the main menu screen, can be used to rotate the display by 180°. Also used for right navigation in certain menu items such as network settings.

<UP>

Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.

<CONFIRM>

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

<RETURN> *(Left)*

Press to exit without saving a value change, or press repeatedly to go back to the main display screen.
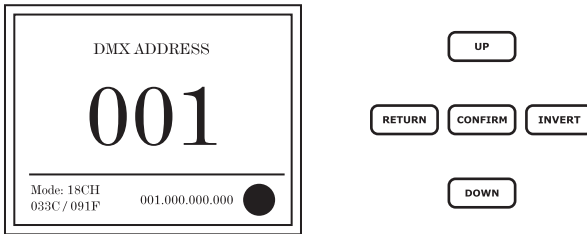
The control panel LCD display shows the menu items you select from the menu map on page #13. When a menu function is selected, the display will show immediately the first available options for the selected menu function. To select a menu item, press **<CONFIRM>**.

Use the **<UP>, <DOWN>, <CONFIRM>,** and **<RIGHT>** buttons to navigate the options. Press the **<CONFIRM>** button to enable a menu option. To save a changed value, press **<CONFIRM>**, or to return to the previous option or menu without changing the value, press the **<RETURN>** button.

Control Panel Menu Structure

DMX Address	001-512	Set the starting address from 001-512			
Fixture	DMX Mode	BAC	15CH DMX mode (basic)		
		STD	18CH DMX mode (standard)		
		EXT	38CH DMX mode (extended)		
	Run Mode	DMX	DMX Mode		
		Host	Master/Slave Mode. When the fixture is set to HOST but is not connected with any other fixtures, AUTO mode will be activated.		
	Pan Invert	Open/Close	Invert pan movement		
	Tilt Invert	Open/Close	Invert tilt movement		
Manual *Note: These selections will change depending on available options in the currently active DMX channel mode.*	**<CONFIRM>**	Pan Pan Fine Tilt Tilt Fine P/T Speed Dim Dim Fine Strobe Zoom	000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255	Red (1-7) Green (1-7) Blue (1-7) White (1-7) Macro BackColor Effect Speed Reset	000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255 000 - 255
Information	Time	Current Time	Shows the current running time		
		Total Time	Shows the total running time		
		Power Count	Shows the number of times powered on		
	Sensor	Display motor, temperature, and fan sensor status			
	Temperature	Display internal temperature & fan speed			
	Software Version	Display currently installed software versions			
Factory *Calibration settings (default values are as shown).*	**<CONFIRM>**	Password: Pan (127) Tilt (127) Zoom (127)	**158** 000 - 255 000 - 255 000 - 255	Red (255) Green (255) Blue (255) White (255)	000 - 255 000 - 255 000 - 255 000 - 255
Fixture Reset	Motor Reset	Reset the pan, tilt, and zoom motors			
	Factory Reset	Reset all factory default values			
Display	Language	EN (English)			
		CH (Chinese)			
	Display Flip	Normal			
		Reverse			
	Display Mode	Show (display is always on)			
		60s (display turns off after 60 seconds of idle)			
Network	**<CONFIRM>**	Protocol	sACN/Art-Net		
		KlingNet	Enable/Disable		
		Universe	000-255		
		IP Address	IP address (xxx.xxx.xxx.xxx)		
		Subnet Mask	Subnet mask (xxx.xxx.xxx.xxx)		

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DMX Mode

Allows the unit to be controlled by any universal DMX controller.

Select the Starting DMX Address

1.) Navigate the main menu to reach **DMX Address**, press **<CONFIRM>**.
2.) Use the **<UP/DOWN>** buttons to choose a starting DMX address ranging from 001-512, then press **<CONFIRM>** to save, or **<RETURN>** to exit.

DMX Channel Mode Selection

1.) Navigate the main menu to reach **Fixture**, and press **<CONFIRM>**.
2.) Use the **<UP/DOWN>** buttons to highlight **DMX Mode**, press **<CONFIRM>**.
3.) Now use the **<UP/DOWN>** buttons to highlight **BAC** (15CH), **STD** (18CH), or **EXT** (38CH), and then press **<CONFIRM>** to save, or **<RETURN>** to exit.

Run Mode (DMX, Master/Slave, Auto, Sound Active)

1.) Navigate the main menu to reach **Fixture**, press **<CONFIRM>**.
2.) Use the **<UP/DOWN>** buttons to highlight **Run Mode**, press **<CONFIRM>**.
3.) Now use the **<UP/DOWN>** buttons to highlight **DMX** (DMX Mode), **Sound** (Sound Active), or **Host** (M/S Mode), and then press **<CONFIRM>** to save.
4.) In M/S mode, the first fixture in the DMX chain is the master fixture, and the following units will operate in unison with the master.
5.) **Note**: If the fixture is set to **Host** but is not connected with other fixtures to run as master/slave, **Auto Mode** will be activated.

Pan/Tilt Invert

1.) Navigate the main menu to reach **Fixture**, press **<CONFIRM>**.
2.) Use the **<UP/DOWN>** buttons to highlight either **Pan Invert** or **Tilt Invert**, then press **<CONFIRM>**.
3.) The default setting of the parameter is **Close**. To invert the Pan or Tilt, set the parameter to **Open**, and press **<CONFIRM>** to save, or **<RETURN>** to exit.

Manual Adjustments

Allows individual adjustments to be made via the control panel menu.

1.) Navigate the main menu to reach **Manual**, press **<CONFIRM>**.
2.) Use the **<UP/DOWN>** buttons to highlight any function, press **<CONFIRM>**.
3.) Now use the **<UP/DOWN>** buttons change any values and press **<CONFIRM>** to save, or **<RETURN>** to exit *(see DMX Values In-Depth)*.
4.) Note: The available selections will change depending on the options that are in the currently active DMX mode.

Information

Selecting this option allows access to the following information:

Time

1.) **Time**: Shows the current running time.
2.) **Total Time**: Shows the total running time of the fixture.
3.) **Power Count**: Shows the number of times the fixture has been powered on.

Sensor

1.) This menu item will give you information on the operating status of the **Pan**, **Tilt**, and **Zoom** motors, as well as the **Temperature** and **Fan** sensors. When the operating correctly **TRUE** is displayed, otherwise **FALSE** will be displayed.

Temperature

1.) **Head Temp**: Internal temperature of the moving head.
2.) **Fan Speed**: Shows the speed of the fan when it is active (in RPM).

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Software Version

1.) This menu item will give you information on the currently installed software versions of **Motor**, **Dimmer**, and **Network**.

Factory

Selecting this menu item allows access to the following calibration options. All of the set values will be maintained each time the fixture is turned on, and he password must be entered each time to enable modification of the values.

1.) **Password**: The password is: 158
2.) **Pan/Tilt/Zoom**: 0-255 (these default values are 127)
3.) **Red/Green/Blue/White**: 0-255 (these default values are 255)

Fixture Reset

Selecting this menu item allows access to the following options:

Motor Reset

1.) This function is set to **OFF** by default. Switching to **Run** by using the **<UP/DOWN>** buttons, then pressing the **<CONFIRM>** button will reset the **Pan**, **Tilt**, and **Zoom** motors.

Factory

1.) This function is set to **OFF** by default. Switching to **Run** by using the **<UP/DOWN>** buttons, then pressing the **<CONFIRM>** button will reset all values and functions to the factory default settings.

Display

Selecting this menu item allows access to the following options:

Language

1.) Selects the display language between English and Chinese.

Display Flip

1.) When this selection is set to **Normal**, the display is in the normal position, when **Reverse** is set, the display is rotated by 180°.

Display Mode

1.) When this selection is set to **Show**, the display will always remain on, when **60s** is set, the display will turn off after 60 seconds of inactivity.

Network

This menu item allows you to select the protocols of sACN, Art-Net, KlingNet, and adjust the settings for Universe, IP Address, and Subnet Mask.

Art-Net/sACN Modes

1.) Navigate the main menu to reach **Network**, press **<CONFIRM>**.
2.) Use the **<UP/DOWN>** buttons to highlight **Protocol**, press **<CONFIRM>**.
3.) Now highlight either **Art-Net** or **sACN**, and press the **<CONFIRM>** button.
4.) For **Art-Net** protocol setting the IP Address value and Subnet Mask is not required. For **sACN** protocol, be sure the IP Address set to: **000.000.000.000**.

KlingNet Mode

1.) Navigate the main menu to reach **Network**, press **<CONFIRM>**.
2.) Use the **<UP/DOWN>** buttons to highlight **KlingNet**, press **<CONFIRM>**.
3.) Now highlight **Enable**, and press the **<CONFIRM>** button.

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DMX Values In-Depth (15/18/38-Channel Modes)

15CH BAC	18CH STD	38CH EXT	Value	What It Does
1	1	1	000 <-> 255	Pan
--	2	2	000 <-> 255	Fine Pan (16-bit)
2	3	3	000 <-> 255	Tilt
--	4	4	000 <-> 255	Fine Tilt (16-bit)
3	5	5	000 <-> 255	Pan/Tilt Speed
4	6	6	000 <-> 255	Dimmer
--	7	7	000 <-> 255	Dimmer Fine
5	8	8		**Strobe**
			000 <-> 003	Open
			004 <-> 103	Strobe (slow <-> fast)
			104 <-> 107	Open
			108 <-> 207	Pulse Strobe (slow <-> fast)
			208 <-> 212	Open
			213 <-> 251	Pixel Strobe (slow <-> fast)
			252 <-> 255	Closed
6	9	9	000 <-> 255	Zoom (wide <-> narrow)
7	10	--	000 <-> 255	Red Intensity
8	11	--	000 <-> 255	Green Intensity
9	12	--	000 <-> 255	Blue Intensity
10	13	--	000 <-> 255	White Intensity
11	14	--		**Color Macros** (overrides R/G/B/W)
			000 <-> 002	Off
			003 <-> 004	Cool White
			005 <-> 006	Pink
			007 <-> 008	Intense Pink
			009 <-> 010	Amber
			011 <-> 012	Red
			013 <-> 014	Orange
			015 <-> 016	Yellow
			017 <-> 018	Lime
			019 <-> 020	Green
			021 <-> 022	Teal
			023 <-> 024	Sea Green
			025 <-> 026	Blue
			027 <-> 057	Forward Chase (slow <-> fast)
			058 <-> 070	Off
			071 <-> 101	Step Chase (slow <-> fast)
			102 <-> 104	Off
			105 <-> 135	Random Chase (slow <-> fast)
			136 <-> 140	Off
			141 <-> 255	Pulse Chase (slow <-> fast)
12	15	--		**Background Color** (for shape macros)
			000 <-> 002	Off
			003 <-> 004	White
			005 <-> 006	Pink
			007 <-> 008	Intense Pink
			009 <-> 010	Amber
			011 <-> 012	Red
			013 <-> 014	Orange
			015 <-> 016	Yellow
			017 <-> 018	Lime
			019 <-> 020	Green
			021 <-> 022	Teal Green
			023 <-> 024	Sea Green
			025 <-> 026	Blue
			027 <-> 255	White

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DMX Values In-Depth (15/18/38-Channel Modes), continued

15CH BAC	18CH STD	38CH EXT	Value	What It Does
13	16	--		**Shape Macro**
			000	Off
			001 <-> 018	1 LED Circle Chase
			019 <-> 037	2 LED Circle Chase
			038 <-> 055	3 LED Circle Chase
			056 <-> 074	2 LED Diagonal Chase
			075 <-> 091	4 LED Diagonal Chase
			092 <-> 109	Spinning Line
			110 <-> 127	Spinning X
			128 <-> 145	2-3-2 Chase
			146 <-> 163	1 LED CW Fill
			164 <-> 181	1 LED CCW Fill
			182 <-> 199	2 LED CW Fill
			200 <-> 217	2 LED CCW Fill
			218 <-> 255	Inside/Outside Chase
14	17	--		**Shape Macro Speed**
			000 <-> 002	Stop
			003 <-> 127	Forward (slow <-> fast)
			128 <-> 130	Stop
			131 <-> 255	Reverse (slow <-> fast)
15	18	10		**Reset Fixture**
			000 <-> 059	No function
			060 <-> 099	Reset (hold value for 2 seconds)
			100 <-> 255	No function

Pixel ID

The 7* R/G/B/W pixels available from the menu & 38-channel mode (CH11-CH38) are as shown on the right:
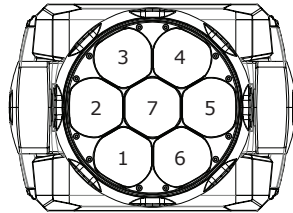
38-Channel Mode, CH11-CH38

CH	Value	What It Does	CH	Value	What It Does
11	000 <-> 255	Pixel 1 - Red	25	000 <-> 255	Pixel 4 - Blue
12	000 <-> 255	Pixel 1 - Green	26	000 <-> 255	Pixel 4 - White
13	000 <-> 255	Pixel 1 - Blue	27	000 <-> 255	Pixel 5 - Red
14	000 <-> 255	Pixel 1 - White	28	000 <-> 255	Pixel 5 - Green
15	000 <-> 255	Pixel 2 - Red	29	000 <-> 255	Pixel 5 - Blue
16	000 <-> 255	Pixel 2 - Green	30	000 <-> 255	Pixel 5 - White
17	000 <-> 255	Pixel 2 - Blue	31	000 <-> 255	Pixel 6 - Red
18	000 <-> 255	Pixel 2 - White	32	000 <-> 255	Pixel 6 - Green
19	000 <-> 255	Pixel 3 - Red	33	000 <-> 255	Pixel 6 - Blue
20	000 <-> 255	Pixel 3 - Green	34	000 <-> 255	Pixel 6 - White
21	000 <-> 255	Pixel 3 - Blue	35	000 <-> 255	Pixel 7 - Red
22	000 <-> 255	Pixel 3 - White	36	000 <-> 255	Pixel 7 - Green
23	000 <-> 255	Pixel 4 - Red	37	000 <-> 255	Pixel 7 - Blue
24	000 <-> 255	Pixel 4 - Green	38	000 <-> 255	Pixel 7 - White

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5. APPENDIX

Keeping Your Stiletto™ Ray-Z As Good As New

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.

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.

Dimensional Drawings
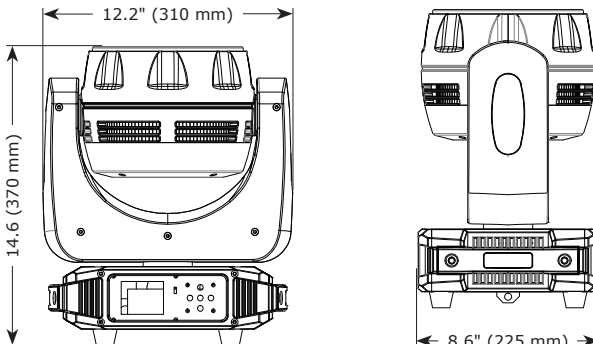
Tech Specs!

| Weight & Dimensions	
Width	12.2 inches (310 mm)
Depth	8.6 inches (225 mm)
Height	14.6 inches (370 mm)
Weight	19.9 lbs (9 kg)
Power	
Operating Voltage	100-240VAC, 50-60Hz
Power Consumption	324W, 2.92A, PF: .99
Fuse	5A/250V
Light Source	
LED	7* 40W OSRAM™ RGBW 4-in-1 LEDs, 100,000 hours
Beam Angle	4.5°-36° zoom
Movement Range	
Pan	Pan 540 degrees (Speed: 2.2 sec.)
Tilt	Tilt 200 degrees (Speed: 1.2 sec.)
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Control	
Protocol	USITT DMX-512, RDM, Art-Net, Kling-Net, and sACN
DMX Channels	15/18/38-channel DMX
Input/Output	5-pin XLR Male/Female
Operating Modes	DMX512, Master/Slave, Auto, & Sound Active
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LEDs

Photometric Data

4.5° Beam Diameter:

1.) 2.5m: 8 in. (20.25 cm)
2.) 5m: 16 in. (40.5 cm)
3.) 7.5m: 2 ft. (60.75 cm)
4.) 10m: 2.7 ft. (81 cm)

36° Beam Diameter:

1.) 2.5m: 5.4 ft. (162 cm)
2.) 5m: 10.7 ft. (324 cm)
3.) 7.5m: 16 ft. (486 cm)
4.) 10m: 21.3 ft. (648 cm)
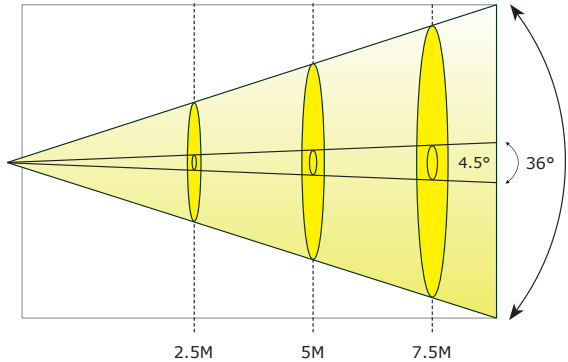
Luminous Intensity:

Beam	2.5m lux	2.5m fc	5m lux	5m fc	7.5m lux	7.5m fc	10m lux	10m fc
36°	2,023	187.9	532	49.4	277	25.7	180	16.7
4.5°	43,675	4,057.5	12,120	1,126	5,324	494.6	3,229	299.9

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 power-CON® are registered trademarks of Neutrik AG.

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