

STILETTO 3™



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TABLE OF CONTENTS

Stiletto™ Z3 Moving Head	1
1. Getting Started	3
What's In The Box?	3
Getting It Out Of The Box	3
Powering Up!	3
Getting A Hold Of Us	3
Safety Instructions (Don't Stick Your Hand In The Toaster!)	4
2. Meet The Stiletto™ Z3 Moving Head	5
Features	5
DMX Quick Reference	5
The Stiletto™ Z3 Pin-up Picture	6
3. Setup	7
Fuse Replacement	7
Connecting A Bunch Of Stiletto™ Z3 Fixtures	7
Data/DMX Cables	7
Cable Connectors	8
3-Pin??? 5-Pin??? Huh?	8
Take It To The Next Level: Setting up DMX Control	8
Fixture Linking (Master/Slave Mode)	9
Mounting/Rigging	9
Mounting Points	10
Clamp Mounting	11
Securing the fixture	11
4. Operating Adjustments	12
The Control Panel	12
Control Panel Menu Structure	13
DMX Mode	14
Set The Starting DMX Address	14
Select the DMX Channel Mode	14
Select the Play Mode	14
Auto, Sound Active, & Manual Adjustments	14
Auto Mode	14
Sound Active Mode	14
Manual Adjustments	14
Reverse Pan/Tilt	14
Reset Functions	14
Reset Functions	14
DMX Values In-Depth	15
Troubleshooting	17
5. Appendix	18
A Quick Lesson On DMX	18
Keeping Your Stiletto™ Z3 As Good As New	19
Returns (Gasp!)	19
Shipping Issues	19
Tech Specs	20
Dimensional Drawings	21

1. GETTING STARTED

What's In The Box?

- 1 x Stiletto™ Z3 Moving Head
- An Ever-So-Handy Power Cord
- A Totally Sweet Mounting Bracket
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on your purchase of the incredible Stiletto™ Z3, the fun sized zoomable mini moving head fixture that's kid tested and mother approved! Now that you've got your Stiletto™ Z3 (*or hopefully, Z3s!*), you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Powering Up!

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.**

AC Voltage Switch - Not all fixtures have a voltage select switch, so please verify that the fixture you receive is suitable for your local power supply. See the label on the fixture or refer to the fixture's specifications chart for more information. A fixture's listed current rating is its average current draw under normal conditions. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning! Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Ground (Earthing).

Getting A Hold Of Us

If something is wrong, please just visit our website at www.blizzardlighting.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	7/8/2014	J.Thomas	7/10/2014

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 cord. 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 contact Blizzard Lighting at www.blizzardlighting.com/tickets.

2. MEET THE STILETTO™ Z3 MOVING HEAD

MAIN FEATURES

- 3* 15W ultra-bright 4-In-1 RGBW LEDs
- Pan: 540°/ Tilt: 270° (8-16 Bit Resolution)
- Motorized liner zoom
- 6.5°-60° beam angle
- Built-in auto and sound active programs
- Ultra-smooth 16-bit dimming system
- Internal fan cooling system
- Fast motors, quiet operation, and flicker free
- PowerCON® compatible power input connector
- Compact, high quality housing

CONTROL:

- USITT DMX-512, 12/17-channel DMX modes
- Standalone, auto, master/slave, & sound active modes
- 3-pin DMX input and output
- Easy-to-use, 4-button LED control panel

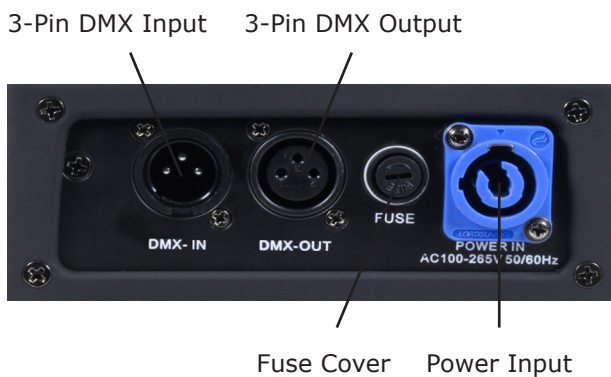
DMX Quick Reference (12/17-Channel Modes)

Channel	12-Channel	17-Channel
1	Pan	Pan
2	Fine Pan	Fine Pan
3	Tilt	Tilt
4	Fine Tilt	Fine Tilt
5	Pan/Tilt Speed (fast <--> slow)	Pan/Tilt Speed (fast <--> slow)
6	Strobe (slow <--> fast)	Strobe (slow <--> fast)
7	Dimmer (0% <--> 100%)	Dimmer (0% <--> 100%)
8	Zoom (wide <--> narrow)	Zoom (wide <--> narrow)
9	Red Intensity (0% <--> 100%)	Red Intensity (0% <--> 100%)
10	Green Intensity (0% <--> 100%)	Green Intensity (0% <--> 100%)
11	Blue Intensity (0% <--> 100%)	Blue Intensity (0% <--> 100%)
12	White Intensity (0% <--> 100%)	White Intensity (0% <--> 100%)
13	--	Color Macros
14	--	Color Macro Speed (ch. 13)
15	--	Built-in Programs + Sound Active
16	--	Built-in Program Speed (ch. 15)
17	--	Reset (between ch. 150-200)

Figure 1: The Stiletto™ Z3 Pin-Up Picture



Figure 2: The Rear Connections



3. SETUP



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

Fuse Replacement

With a phillips head screwdriver, unscrew the fuse holder out of its housing. Remove 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™ Z3 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

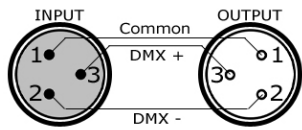
To link fixtures together you'll need data cables. You should use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

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

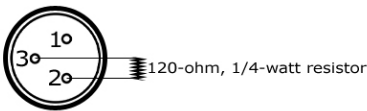
Cable Connectors

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.



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, you will need to use a 5 pin to 3 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:

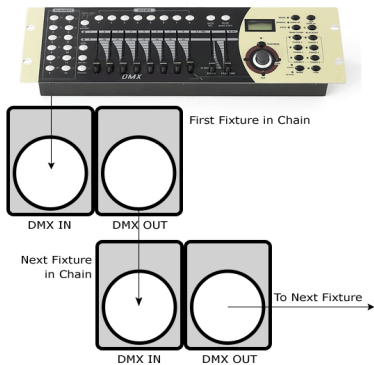
Conductor	3-Pin Female (Output)	5-Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
DMX Data (-)	Pin 2	Pin 2
DMX Data (+)	Pin 3	Pin 3
Not Used.	No Connection.	No Connection.
Not Used.	No Connection.	No Connection.

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.

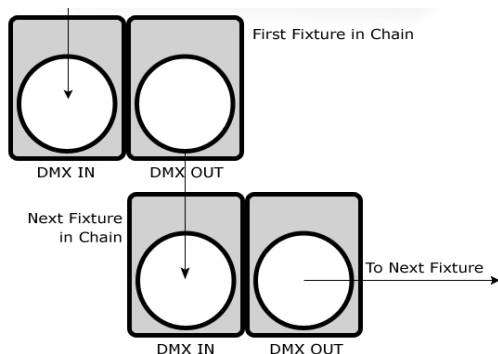
Step 2: Connect the female connector of the DMX cable to the first fixture’s male connector (input). *Note:* It doesn’t matter which fixture address is the first one connected. We recommend connecting the fixtures in terms of their proximity to the controller, rather than connecting the lowest fixture 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) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.



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. Secondly, 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.

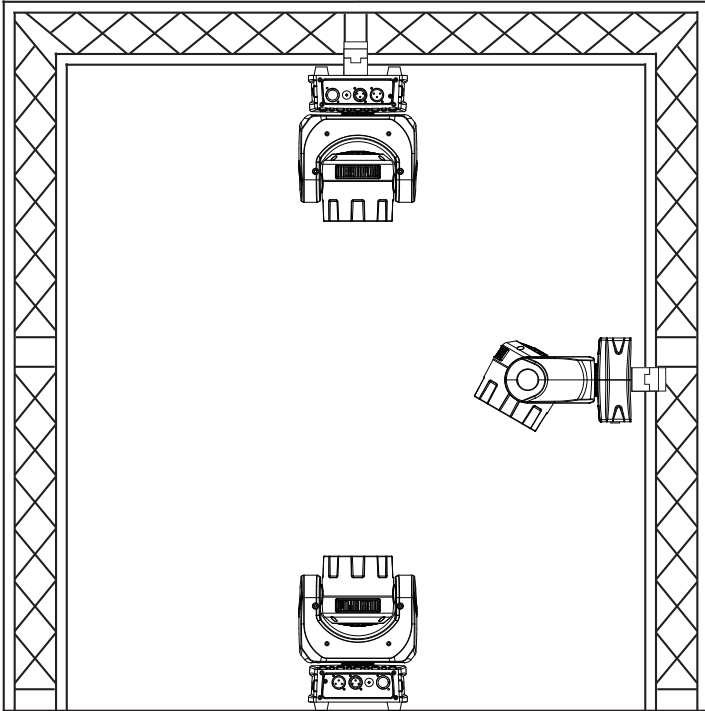
It is important never to obstruct the fan or vents pathway. Mount the fixture using a suitable “C” or “O” type clamp. The clamp should be rated to hold at least 10x the fixture’s weight to ensure structural stability. Do not mount to surfaces with unknown strength, and ensure properly “rated” rigging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

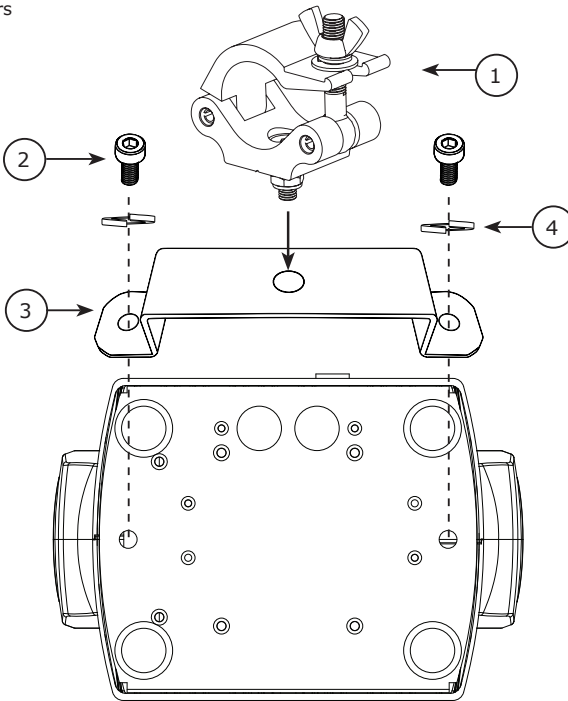
Please be aware, you should have a qualified electrician performing all of your electrical connection needs. Better safe than sorry!

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 fastens the bottom of the base and the bracket securely together. When mounting this fixture to truss, be sure to secure an appropriately rated clamp to the bracket, fitted through the center hole.

- 1.) Clamp
- 2.) Socket Cap Screws
- 3.) Mounting Bracket
- 4.) Lock Washers



Securing the Fixture

Regardless of the rigging option you choose for your fixtures, always secure them with a safety cable. And make sure that the mounting bracket is securely tightened down to the bottom of the fixture using the supplied lock washers and socket cap screws.

4. OPERATING ADJUSTMENTS

The Control Panel

All the goodies and different modes possible with the Stiletto™ Z3 are accessed by using the control panel on the front of the fixture. There are 4 control buttons below the LED display which allow you to navigate through the various control panel menus.

<MENU>

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

<UP>

Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.

<ENTER>

Is used to select and confirm/store the current selection.



MENU UP DOWN ENTER

The control panel LED 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 **<MENU>** and/or the **<UP/DOWN>** buttons to navigate the menu options. Press the **<ENTER>** button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the **<MENU>** button.

Control Panel Menu Structure

Addr	d001-d512	To choose a DMX address from 001-512
CHSE	CH.17	17-channel DMX mode
	CH.12	12-channel DMX mode
Node	DNH	DMX mode
	FASt	Fast auto mode
	SLou	Slow auto mode
	Soun	Sound active mode
SEnS	SE00-SE99	Mic sensitivity (0% <--> 100%)
PAn	on/oFF	Reverse pan
TiLT	on/oFF	Reverse tilt
bALA	rEd	Global red intensity (0% <--> 100%)
	GrEE	Global green intensity (0% <--> 100%)
	BLuE	Global blue intensity (0% <--> 100%)
	uHiL	Global white intensity (0% <--> 100%)
dEFA	YES <ENTER>	Factory reset
rEST	YES <ENTER>	Motor reset

DMX Mode

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

The default mode for the fixture is DMX, so the first menu item that you need to edit is the starting DMX address.

Set the Starting DMX Address:

- 1.) Navigate the main menu until you reach **Addr**.
- 2.) Push the <ENTER> button.
- 3.) Use the <UP/DOWN> buttons to select a DMX channel from **d001-d512**.
- 4.) Press the <ENTER> button to confirm.

Select the DMX Channel Mode:

- 1.) Navigate the main menu until you reach **CHSE**.
- 2.) Push the <ENTER> button.
- 3.) Use the <UP/DOWN> buttons to select either **CH12** or **CH17**.
- 4.) Press the <ENTER> button to confirm your selection.

Master/Slave Mode

- 1.) This fixture does not require additional settings to run as a slave. The first fixture linked in the DMX chain will serve as the master, those linked thereafter will be slave fixtures and follow the master fixture.

Auto, Sound Active, & Manual Adjustments:

Allows a single or Master/Slaved units to run factory installed programs at user selectable speeds.

Auto Mode:

- 1.) Navigate the main menu until you reach **NodE**.
- 2.) Push the **<ENTER>** button.
- 3.) Use the **<UP/DOWN>** buttons to select either **FAST** (fast auto), or **SLou** (slow auto).
- 4.) Press the **<ENTER>** button to confirm your selection.

Sound Active Mode:

- 1.) Navigate the main menu until you reach **NodE**.
- 2.) Push the **<ENTER>** button.
- 3.) Use the **<UP/DOWN>** buttons to select **Soun**.
- 4.) Press the **<ENTER>** button to confirm your selection of sound active mode.
- 5.) You can now adjust the microphone sensitivity by navigating the main menu to reach **SEnS**, then choose a value from 00-99 (0% <--> 100%).

Color Balance (global, affects all modes)

- 1.) Navigate the main menu until you reach either **rED** (red), **GrEE** (green), **Blue** (blue), or **uHIL** (white), then press **<ENTER>**.
- 2.) Use the **<UP/DOWN>** buttons to highlight a value from 000-255 (0% <--> 100%).
- 3.) Press the **<ENTER>** button to confirm your choice.

NOTE: This will affect all modes. So a value of zero on any color means zero output per color, globally... until it is manually changed, or factory a reset is performed.

Factory Reset

- 1.) Navigate the main menu until you reach **deFA**, then press **<ENTER>**.
- 2.) Press the **<ENTER>** button to confirm, or the **<MENU>** button to return to the previous menu option without performing the factory reset.

Motor Reset

- 1.) Navigate the main menu until you reach **rEST**, then press **<ENTER>**.
- 2.) Press the **<ENTER>** button to confirm, or the **<MENU>** button to return to the previous menu option without performing the motor reset.

DMX Values In-Depth (12-Channel Mode)

Ch.	Value	What It Does
1	000 <--> 255	Pan (0-540°)
2	000 <--> 255	Fine Pan
3	000 <--> 255	Tilt (0-270°)
4	000 <--> 255	Fine Tilt
5	000 <--> 255	Pan/Tilt Speed (fast <--> slow)
6	000 <--> 255	Strobe (slow <--> fast)
7	000 <--> 255	Dimmer (0% <--> 100%)
8	000 <--> 255	Zoom (wide <--> narrow)
9	000 <--> 255	Red Intensity (0% <--> 100%)
10	000 <--> 255	Green Intensity (0% <--> 100%)
11	000 <--> 255	Blue Intensity (0% <--> 100%)
12	000 <--> 255	White Intensity (0% <--> 100%)

DMX Values In-Depth (19-Channel Mode)

Ch.	Value	What It Does
1	000 <--> 255	Pan (0-540°)
2	000 <--> 255	Fine Pan
3	000 <--> 255	Tilt (0-270°)
4	000 <--> 255	Fine Tilt
5	000 <--> 255	Pan/Tilt Speed (fast <--> slow)
6	000 <--> 255	Strobe (slow <--> fast)
7	000 <--> 255	Dimmer (0% <--> 100%)
8	000 <--> 255	Zoom (wide <--> narrow)
9	000 <--> 255	Red Intensity (0% <--> 100%)
10	000 <--> 255	Green Intensity (0% <--> 100%)
11	000 <--> 255	Blue Intensity (0% <--> 100%)
12	000 <--> 255	White Intensity (0% <--> 100%)
13	000 <--> 010	Color Macros No Function
	011 <--> 127	Individual Colors & Groups
	128 <--> 160	Color Jump
	161 <--> 200	Color Fade Pattern 1
	201 <--> 205	Color Fade Pattern 2
14	000 <--> 255	Color Macro Speed (ch. 13)
15	000 <--> 010	Built-In Programs No Function
	011 <--> 120	Auto Mode (fast)
	121 <--> 244	Auto Mode (slow)
	245 <--> 255	Sound Active Mode
16	000 <--> 255	Built-In Program Motor Speed (ch. 15)
17	000 <--> 149	Motor Reset No Function
	150 <--> 200	Reset
	201 <--> 255	No Function

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.
No Light Output	Check to ensure fixture is operating under correct mode, IE sound active/auto/DMX/Etc., if applicable.
Chase Speed Too Fast/Slow	Check to ensure proper setup of speed adjustment.
Blown Fuse	Check AC cord and circuit for damage, verify that moving parts are not restricted and that unit's ventilation is not obstructed
No Response to Audio	Verify that the fixture is in "Sound Active" mode. Adjust Audio Sensitivity, If Applicable.
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).
Fixture Moving On Its Own	Verify proper mode of operation. Is the fixture in "Auto" mode?

5. APPENDIX

A Quick Lesson On DMX

DMX (aka DMX-512) was created in 1986 by the United States Institute for Theatre Technology (USITT) as a standardized method for connecting lighting consoles to lighting dimmer modules. It was revised in 1990 and again in 2000 to allow more flexibility. The Entertainment Services and Technology Association (ESTA) has since assumed control over the DMX512 standard. It has also been approved and recognized for ANSI standard classification.

DMX covers (and is an abbreviation for) Digital MultipleXed signals. It is the most common communications standard used by lighting and related stage equipment.

DMX provides up to 512 control "channels" per data link. Each of these channels was originally intended to control lamp dimmer levels. You can think of it as 512 faders on a lighting console, connected to 512 light bulbs. Each slider's position is sent over the data link as an 8-bit number having a value between 0 and 255. The value 0 corresponds to the light bulb being completely off while 255 corresponds to the light bulb being fully on.

DMX data is transmitted at 250,000 bits per second using the RS-485 transmission standard over two wires. As with microphone cables, a grounded cable shield is used to prevent interference with other signals.

There are five pins on a DMX connector: a wire for ground (cable shield), two wires for "Primary" communication which goes from a DMX source to a DMX receiver, and two wires for a "Secondary" communication which goes from a DMX receiver back to a DMX source. Generally, the "Secondary" channel is not used so data flows only from sources to receivers. Hence, most of us are most familiar with DMX-512 as being employer over typical 3-pin "mic cables," although this does not conform to the defined standard.

DMX is connected using a daisy-chain configuration where the source connects to the input of the first device, the output of the first device connects to the input of the next device, and so on. The standard allows for up to 32 devices on a single DMX link.

Each receiving device typically has a means for setting the "starting channel number" that it will respond to. For example, if two 6-channel fixtures are used, the first fixture might be set to start at channel 1 so it would respond to DMX channels 1 through 6, and the next fixture would be set to start at channel 7 so it would respond to channels 7 through 12.

The greatest strength of the DMX communications protocol is that it is very simple and robust. It involves transmitting a reset condition (indicating the start of a new "packet"), a start code, and up to 512 bytes of data. Data packets are transmitted continuously. As soon as one packet is finished, another can begin with no delay if desired (usually another follows within 1 ms). If nothing is changing (i.e. no lamp levels change) the same data will be sent out over and over again. This is a great feature of DMX -- if for some reason the data is not interpreted the first time around, it will be re-sent shortly.

Not all 512 channels need to be output per packet, and in fact, it is very uncommon to find all 512 used. The fewer channels are used, the higher the "refresh" rate. It is possible to get DMX refreshes at around 1000 times per second if only 24 channels are being transmitted. If all 512 channels are being transmitted, the refresh rate is around 44 times per second.

In summary, since its design and evolution in the 1980's DMX has become the standard for lighting control. It is flexible, robust, and scalable, and its ability to control everything from dimmer packs to moving lights to foggers to lasers makes it an indispensable tool for any lighting designer or lighting performer.

Keeping Your Stiletto™ Z3 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, 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 client's satisfaction and "wow factor." That's what it's all about, after all!

Returns (Gasp!)

We've taken a lot of precautions to make sure you never even have to worry about sending a defective unit back, or sending a unit in for service. But, like any complex piece of equipment designed and built by humans, once in a while, something doesn't go as planned. If you find yourself with a fixture that isn't behaving like a good little fixture should, you'll need to obtain a Return Authorization (RA).

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

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

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

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

Shipping Issues

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

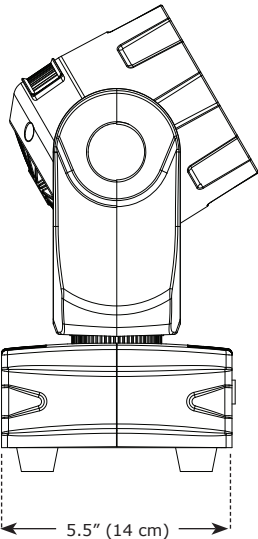
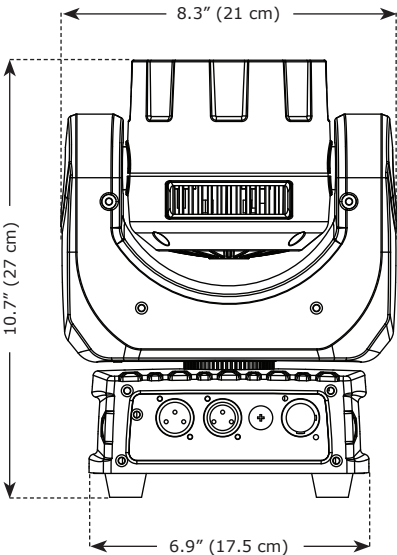
Tech Specs!

Weight & Dimensions						
Width	7.9 inches (21 cm)					
Depth	5.5 inches (14 cm)					
Height	11 inches (27 cm)					
Weight	8.8 lbs. (4 kg)					
Power						
Operating Voltage	100-260VAC, 50-60Hz					
Power Consumption	65W, .82A, PF: .66					
Fuse	5A, 250V					
Light Source						
LED	3* 15W 4-in-1 RGBW LEDs					
Optical						
Beam Angle	6.5°-60°					
Luminous Intensity	Lux/m	Red	Green	Blue	White	All
Wide Beam	1m	224	307	383	544	11,420
	2m	70	91	116	148	308
Narrow Beam	1m	4,860	5,790	7,760	10,330	21,990
	2m	1,269	1,662	2,070	2,656	6,070
	3m	609	748	956	956	2,756
	4m	326	411	534	534	1,485
	5m	222	262	343	343	973
Movement Range						
Pan	540 degrees					
Tilt	270 degrees					
Thermal						
Max. Operating Temp.	104 degrees F (40 degrees C) ambient					
Control						
Protocol	USITT DMX-512					
DMX Channels	12/17-channels					
Input	3-pin XLR Male					
Output	3-pin XLR Female					
Other Operating Modes	Standalone, Master/Slave, Sound Active Mode					
Other Information						
The second I get shampoo in my eyes, I'm 100% sure there's a murderer in my bathroom.						
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LEDs.					

DISCLAIMER:

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Dimensional Drawings





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