# FOCUS SPOT 6Z

# *User Manual*

USA#        FOC635
EU#         1237000301
UPC#        818651028133

## DOCUMENT VERSION

**Due to additional product features and/or enhancements, an updated version of this document may be available online.**
**Please check www.adj.com  for the latest revision/update of this manual before beginning installation and/or programming.**

| Date | Document Version | Software Version | DMX Channel Modes | Notes |
|------|------------------|------------------|-------------------|-------|
| 07/31/2020 | 1.0 | 1.2.1 | 21 / 25 / 29 Channels | Initial Release |
| 08/11/2020 | 1.1 | NC | No Change | Updated Gobo Replacement |
| 09/10/2020 | 1.2 | 1.2.2 | No Change | Updated System Menu, DMX Modes & Values, Primary-Secondary Setup |

Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the enviroment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

***Unpacking:*** Thank you for purchasing the Focus Spot 6Z by ADJ Products, LLC. Every unit has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit have arrived intact. In the case that damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

***Introduction:*** The Focus Spot 6Z is a DMX intelligent, moving head, LED fixture. This fixture can be used in stand alone mode, or connected in a Master/Slave configuration. The fixture comes equipped with motorized focus and zoom, 6 different dimming options, and 3 DMX channel modes (21, 25, or 29 channels). ***This product is intended to be used by professionally trained personnel only and is not suitable for private use.***

***Customer Support:*** Contact ADJ Service for any product related service and support needs. Also visit **forums.adj.com** with questions, comments or suggestions.

***Parts:*** To purchase parts online visit **http://parts.adj.com**

**ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST**
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**Caution!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact ADJ Products, LLC.

***PLEASE recycle the shipping carton when ever possible.***

- Motorized Focus
- 2 Frost Filters to create wash effects
- Motorized Zoom: 9~28 degrees
- 2 Prism FX: Rotating 6-facet Linear & Rotating 6-facet Circular
- Motorized Iris
- Motorized Shutter
- GOBO Morphing
- 0-100% smooth dimming
- Various strobe speeds
- USB firmware update port

Included:
1x Locking power cord
2x Omega brackets

**Focus Spot 6Z** **Warranty Registration**

The Focus Spot 6Z carries a 2 year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain an R.A. number by contacting our customer support team. All packages returned to the service department not displaying an R.A. number on the outside of the package will be returned to the shipper.

- **DO NOT TOUCH** the fixture housing during operation. Disconnect the power and allow approximately 15 minutes for the fixture to cool down before servicing.

- **DO NOT** shake the fixture, and avoid brute force when installing and/or operating the fixture.

- **DO NOT** operate the fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace immediately with a new one of similar power rating.

- **DO NOT** attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.

- **DO NOT** attempt to operate this unit if it has been damaged.

- **DO NOT** spill water or other liquids into or on to your unit.

- This unit is intended for indoor use only. Use of this product outdoors voids all warranties.

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture.

- Disconnect from main power before making any type of connection.

- **DO NOT** block any air ventilation slots. All fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.

- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.

- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat. This will decrease gradually over time.

- **DO NOT** remove the cover under any conditions. There are no user serviceable parts inside.

- When installing fixture in a suspended enviroment, always use mounting hardware that is no less than M10 x 25mm, and always install fixture with an appropriately rated safety cable.

- Never operate this unit with the cover removed.

- Never plug this unit in to a dimmer pack

- During long periods of non-use, disconnect the unit's main power.

- Always mount this unit in safe and stable matter.

- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.

- Cleaning -The fixture should be cleaned only as recommended by the manufacturer.

- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

- The fixture should  be serviced by qualified service personnel when:
  A. The power-supply cord or the plug have been damaged.
  B. Objects have fallen onto, or liquid has been spilled into, the fixture.
  C. The fixture has been exposed to rain or water.
  D. The fixture does not appear to operate normally or exhibits a marked change in performance.
  E. The fixture has fallen and/or subjected to extreme handling.

**POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS**

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ADJ lighting fixtures, can cause severe internal damage including burning of optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not specific only to ADJ lighting fixtures; it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ADJ Service for more details.

**DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS DURING UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS.**
**DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.**
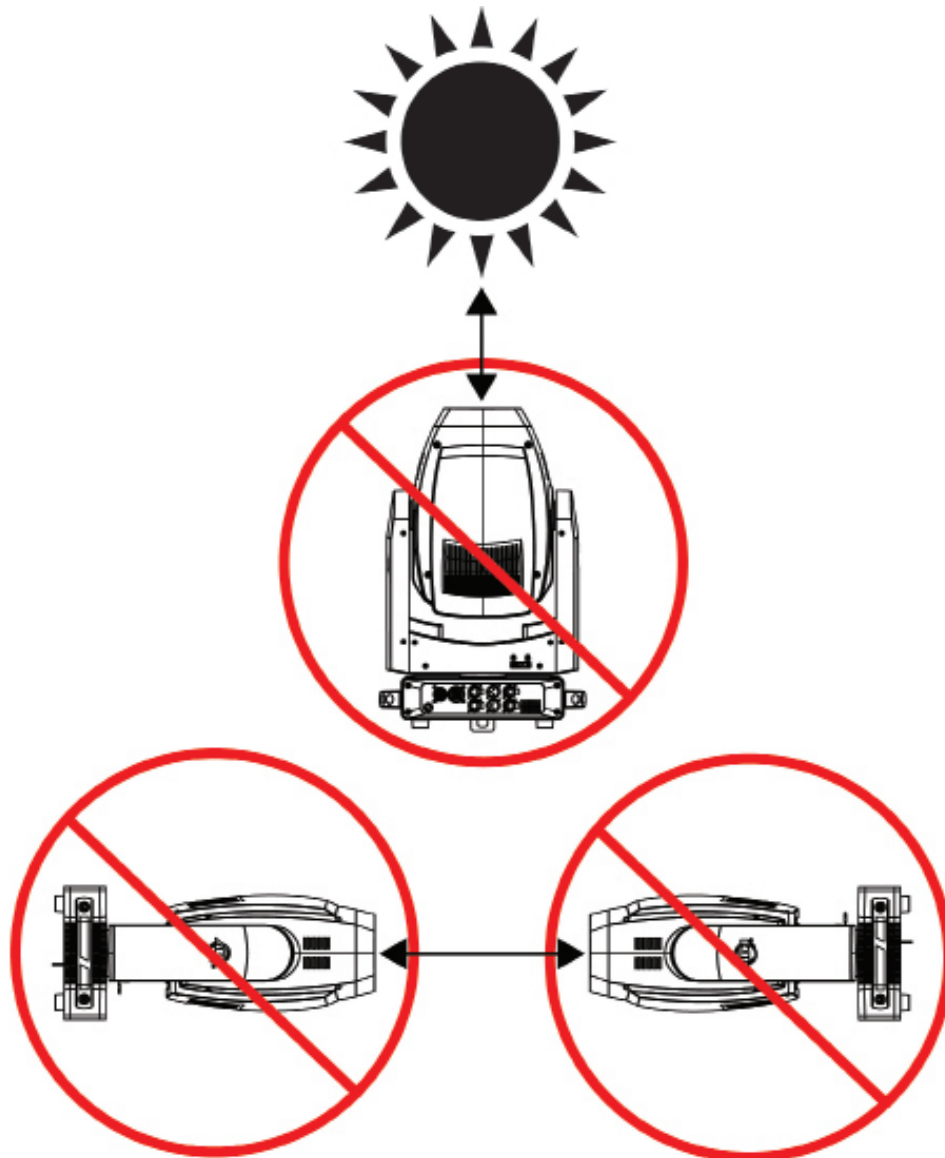
Screw one clamp each via a M12 screw and nut into the Omega bracket. Insert the quick-lock fasteners of the Omega holder's into the respective holes on the bottom of the Focus Spot 6Z. Tighten the quick-lock fasteners fully clockwise. Pull the safety cable through the openings located on the base plate and over the trussing system or a safe fixation spot. Insert the end in the carabine and tighten the safety screw.
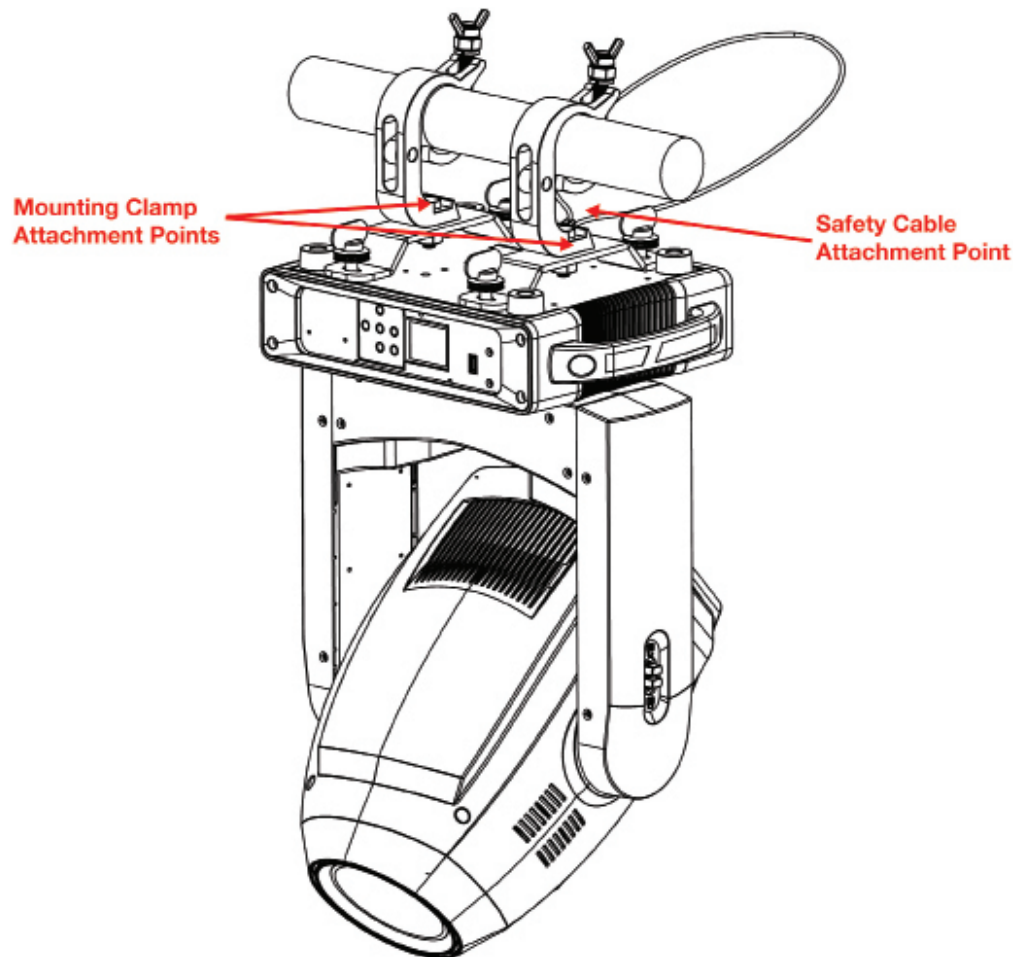


When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit must be secured with a secondary safety attachment, e.g. and appropriate safety cable. Never stand directly below the unit when mounting, removing, or servicing the unit.

Overhead mounting requires extensive experience, including calculating working load limits, installation material being used, and perodic safety inspection of all installation material and unit. If you lack these qualifications, do not attempt the installation yourself.

These installaiton should be checked by a skilled person once a year.

**NOTICE:** The max suitable enviromental temperature for this lighting fixture is **45° C.** Do not place this lighting fixture in an enviroment where the temperatures are under or above the temperatures stated above. This will allow the fixture to run at its best and help prolong the fixture life.
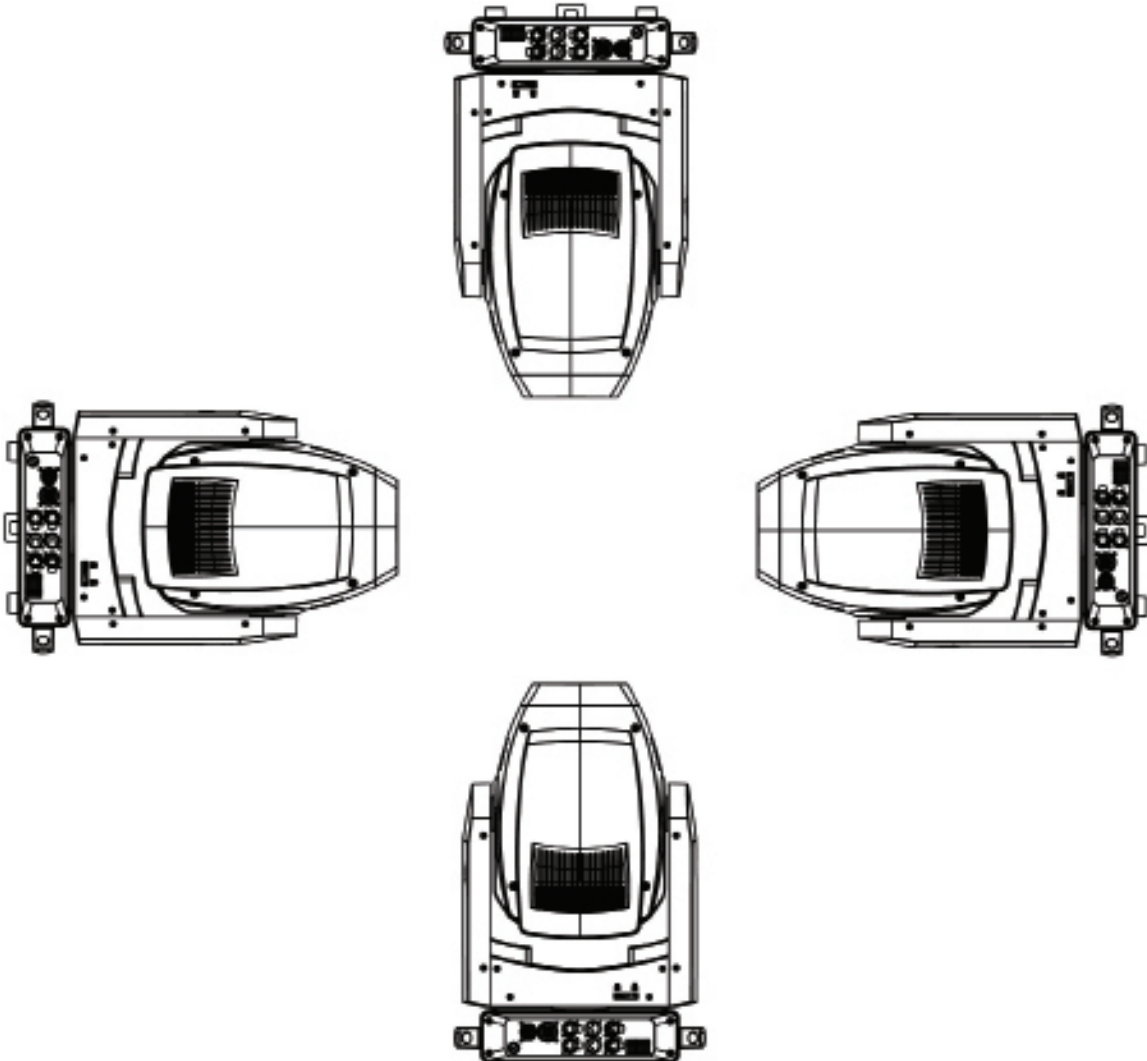
The Focus Spot 6Z is fully operational in three different mounting positions, hanging upside-down from a ceiling or trussing, sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 12m (40ft) away from any flammable materials (decoration etc.). Always use and install a safety cable (not included) as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. Never use the carrying handles for secondary attachment.
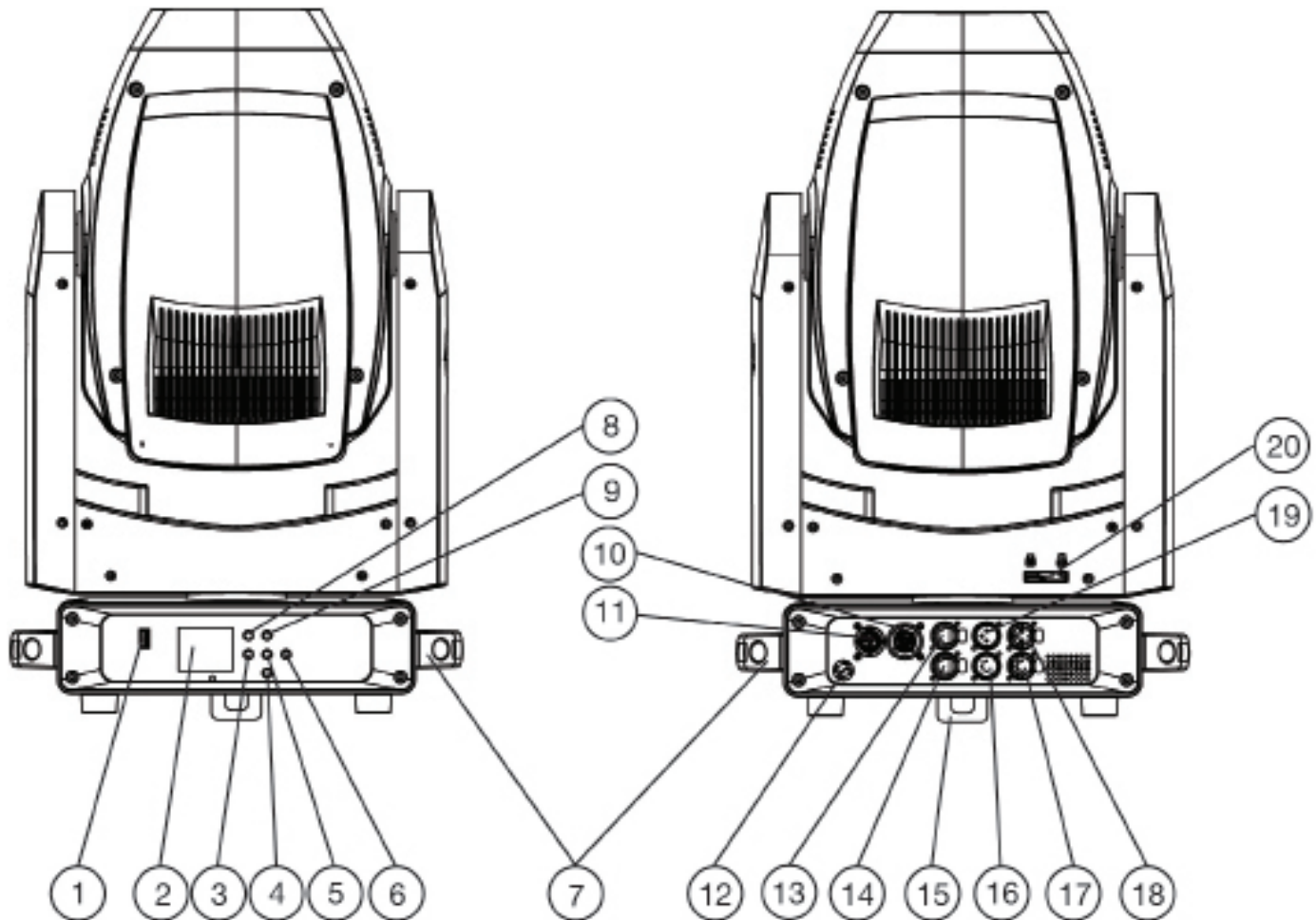
1. Service Port
2. Display Screen
3. Left Button
4. Down Button
5. Enter Button
6. Right Button
7. Carry Handles
8. Mode Button
9. Up Button
10. Power Out

11. Power In
12. Fuse T5A/250V
13. Net In
14. Net Out
15. Safety Cable Attachment Point
16. 5-pin DMX In
17. 5-pin DMX Out
18. 3-pin DMX Out
19. 3-pin DMX In
20. Pan Lock

**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

**DMX Linking:** DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

**Data Cable (DMX Cable) Requirements (For DMX Operation):** The Focus Spot 6Z can be controlled via DMX-512 protocol. The DMX address is set on the front panel of the Focus Spot 6Z. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

**Notice:** Be sure to follow figures 1 and 2 when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.
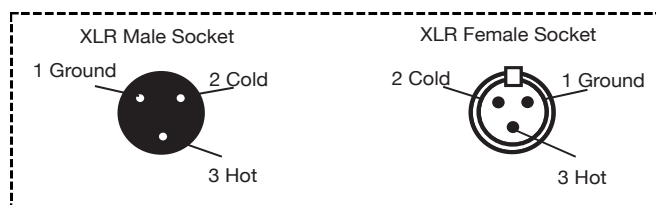


Figure 1



| XLR Pin Configuration |
| --- |
| Pin 1 = Ground |
| Pin 2 = Data Compliment (negative) |
| Pin 3 = Data True (positive) |

Figure 2

***Special Note: Line Termination.*** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

***5-Pin XLR DMX Connectors.*** Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

| 3-Pin XLR to 5-Pin XLR Conversion | | |
|---|---|---|
| Conductor | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield | Pin 1 | Pin 1 |
| Data Compliment (- signal) | Pin 2 | Pin 2 |
| Data True (+ signal) | Pin 3 | Pin 3 |
| Not Used | | Do Not Use |
| Not Used | | Do Not Use |

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the Focus Spot 6Z, when in 21 channel mode you should set the starting DMX address of the first unit to 1, the second unit to 22 (21 + 1), the third unit to 43 (22 + 21), and so on. (See the chart below for more details.)

| Channel Mode | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address |
|---|---|---|---|---|
| 21 Channels | 1 | 22 | 43 | 64 |
| 25 Channels | 1 | 26 | 51 | 76 |
| 29 Channels | 1 | 30 | 59 | 88 |

| Channel Mode | | | Values | Traits |
|---|---|---|---|---|
| **Basic** | **Standard** | **Ext** | | |
| 1 | 1 | 1 | 000 - 255 | Pan Movement, 8-bit |
| | 2 | 2 | 000 - 255 | Pan Fine Control, 16-bit |
| 2 | 3 | 3 | 000 - 255 | Tilt Movement, 8-bit |
| | 4 | 4 | 000 - 255 | Tilt Fine Control, 16-bit |
| 3 | 5 | 5 | *Color Wheel 1* | |
| | | | 000 - 015 | Open / white |
| | | | 016 - 031 | Red |
| | | | 032 - 047 | Orange |
| | | | 048 - 063 | Green |
| | | | 064 - 079 | Light Blue |
| | | | 080 - 095 | Purple |
| | | | 096 - 111 | Magenta |
| | | | 112 - 127 | Yellow |
| | | | 128 - 189 | Clockwise, fast to slow |
| | | | 190 - 193 | No rotation |
| | | | 194 - 255 | Counter-clockwise, slow to fast |
| 4 | 6 | 6 | *Color Wheel 2* | |
| | | | 000 - 015 | Open / white |
| | | | 016 - 031 | Orange Red |
| | | | 032 - 047 | Yellow Green |
| | | | 048 - 063 | Peacock Blue |
| | | | 064 - 079 | CTO |
| | | | 080 - 095 | CTB |
| | | | 096 - 111 | Flourescent Blue |
| | | | 112 - 127 | Light Yellow |
| | | | 128 - 189 | Clockwise, fast to slow |
| | | | 190 - 193 | No rotation |
| | | | 194 - 255 | Counter-clockwise, slow to fast |
| 5 | 7 | 7 | *Gobo 1, Continuous Rotation (see **Gobos** section for gobo patterns)* | |
| | | | 000 - 009 | Open |
| | | | 010 - 019 | Gobo 1 |

**ADJ Focus Spot 6Z - DMX Modes and Values**
Supports software version 1.2.2 and up.
Features subject to change without notice.

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| ADJ Focus Spot 6Z - DMX Modes and Values | | | | |
|---|---|---|---|---|
| Supports software version 1.2.2 and up. | | | | |
| Features subject to change without notice. | | | | |
| Channel Mode | | | Values | Traits |
| Basic | Standard | Ext | | |
| 5 | 7 | 7 | *Gobo 1, Continuous Rotation (see **Gobos** section for gobo patterns) (cont'd from prev page)* | |
| | | | 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 - 094 | Gobo 1 shake, slow to fast |
| | | | 095 - 109 | Gobo 2 shake, slow to fast |
| | | | 110 - 124 | Gobo 3 shake, slow to fast |
| | | | 125 - 139 | Gobo 4 shake, slow to fast |
| | | | 140 - 154 | Gobo 5 shake, slow to fast |
| | | | 155 - 169 | Gobo 6 shake, slow to fast |
| | | | 170 - 189 | Gobo 7 shake, slow to fast |
| | | | 190 - 221 | Clockwise, fast to slow |
| | | | 222 - 223 | No rotation |
| | | | 224 - 255 | Counter-clockwise, slow to fast |
| 6 | 8 | 8 | *Gobo 1 Rotation* | |
| | | | 000 - 127 | Indexing |
| | | | 128 - 189 | Clockwise, fast to slow |
| | | | 190 - 193 | No rotation |
| | | | 194 - 255 | Counter-clockwise, slow to fast |
| 7 | 9 | 9 | *Gobo 2, Continuous Rotation (see **Gobos** section for gobo patterns)* | |
| | | | 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 |
| *CONTINUED ON NEXT PAGE* | | | | |

| Channel Mode | | | Values | Traits |
|---|---|---|---|---|
| **Basic** | **Standard** | **Ext** | | |
| | | | Gobo 2, Continuous Rotation | |

**ADJ Focus Spot 6Z - DMX Modes and Values**

Supports software version 1.2.2 and up.

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| Channel Mode | | | Values | Traits |
|---|---|---|---|---|
| **Basic** | **Standard** | **Ext** | | |
| 7 | 9 | 9 | *Gobo 2, Continuous Rotation (see **Gobos** section for gobo patterns) (cont'd from previous page)* | |
| | | | 070 - 079 | Gobo 7 |
| | | | 080 - 094 | Gobo 1 shake, slow to fast |
| | | | 095 - 109 | Gobo 2 shake, slow to fast |
| | | | 110 - 124 | Gobo 3 shake, slow to fast |
| | | | 125 - 139 | Gobo 4 shake, slow to fast |
| | | | 140 - 154 | Gobo 5 shake, slow to fast |
| | | | 155 - 169 | Gobo 6 shake, slow to fast |
| | | | 170 - 189 | Gobo 7 shake, slow to fast |
| | | | 190 - 221 | Clockwise, fast to slow |
| | | | 222 - 223 | No rotation |
| | | | 224 - 255 | Counter-clockwise, slow to fast |
| 8 | 10 | 10 | *Gobo 2 Rotation* | |
| | | | 000 - 127 | Indexing |
| | | | 128 - 189 | Clockwise, fast to slow |
| | | | 190 - 193 | No rotation |
| | | | 194 - 255 | Counter-clockwise, slow to fast |
| 9 | 11 | 11 | *Shutter, Strobe* | |
| | | | 000 - 031 | No function (shutter closed) |
| | | | 032 - 063 | Shutter open |
| | | | 064 - 095 | Strobe, slow to fast |
| | | | 096 - 127 | Shutter open |
| | | | 128 - 159 | Pulse effect, slow to fast |
| | | | 160 - 191 | Shutter open |
| | | | 192 - 223 | Random strobe, slow to fast |
| | | | 224 - 255 | Shutter open |
| 10 | 12 | 12 | 000 - 255 | Dimmer Intensity, 0 to 100% |
| | | 13 | 000 - 255 | Dimmer Fine Control, 0 to 100% |

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| ADJ Focus Spot 6Z - DMX Modes and Values | | | | |
|---|---|---|---|---|
| Supports software version 1.2.2 and up. | | | | |
| Features subject to change without notice. | | | | |
| Channel Mode | | | Values | Traits |
| Basic | Standard | Ext | | |
| 11 | 13 | 14 | *Prism 1* | |
| | | | 000 - 031 | Open |
| | | | 032 - 255 | 6 facet prism |
| 12 | 14 | 15 | *Prism 1 Indexing and Rotation* | |
| | | | 000 - 127 | Indexing |
| | | | 128 - 189 | Clockwise, fast to slow |
| | | | 190 - 193 | No rotation |
| | | | 194 - 255 | Counter-clockwise, slow to fast |
| | | 16 | 000 - 255 | Prism 1 fine indexing, 16-bit |
| 13 | 15 | 17 | *Prism 2* | |
| | | | 000 - 031 | Open |
| | | | 032 - 255 | 5 Linear prism |
| 14 | 16 | 18 | *Prism 2 Indexing and Rotation* | |
| | | | 000 - 127 | Indexing |
| | | | 128 - 189 | Clockwise, fast to slow |
| | | | 190- 193 | No rotation |
| | | | 194 - 255 | Counter-clockwise, slow to fast |
| | | 19 | 000 - 255 | Prism 2 fine indexing, 16-bit |
| 15 | 17 | 20 | 000 - 255 | Focus adjustment, far to near |
| 16 | 18 | 21 | 000 - 255 | Zoom, min to max beam angle |
| | | 22 | 000 - 255 | Zoom fine indexing |
| 17 | 19 | 23 | *Iris* | |
| | | | 000 - 191 | Indexing |
| | | | 192 - 223 | Pulse Open, slow to fast |
| | | | 224 - 255 | Pulse Close, fast to slow |
| 18 | 20 | 24 | 000 - 255 | Frost Filter 1, 0 to 100% |
| 19 | 21 | 25 | 000 - 255 | Frost Filter 2, 0 to 100% |
| | 22 | 26 | *Dim Modes* | |
| | | | 000 - 020 | Standard |
| | | | 021 - 040 | Stage |
| | | | 041 - 060 | TV |
| *CONTINUED ON NEXT PAGE* | | | | |

| ADJ Focus Spot 6Z - DMX Modes and Values | | | | |
|---|---|---|---|---|
| Supports software version 1.2.2 and up. | | | | |
| Features subject to change without notice. | | | | |
| Channel Mode | | | Values | Traits |
| Basic | Standard | Ext | | |
| | | | *Dim Modes (cont'd from previous page)* | |
| | | | 061 - 080 | Architectural |
| | | | 081 - 100 | Theatre |
| | | | 101 - 120 | Stage 2 |
| | | | *Dimming Speed* | |
| | | | 121 | 0.1 s |
| | | | 122 | 0.2 s |
| | | | 123 | 0.3 s |
| | | | 124 | 0.4 s |
| | | | 125 | 0.5 s |
| | | | 126 | 0.6 s |
| | | | 127 | 0.7 s |
| | | | 128 | 0.8 s |
| | 22 | 26 | 129 | 0.9 s |
| | | | 130 | 1.0 s |
| | | | 131 | 1.5 s |
| | | | 132 | 2.0 s |
| | | | 133 | 3.0 s |
| | | | 134 | 4.0 s |
| | | | 135 | 5.0 s |
| | | | 136 | 6.0 s |
| | | | 137 | 7.0 s |
| | | | 138 | 8.0 s |
| | | | 139 | 9.0 s |
| | | | 140 | 10.0 s |
| | | | 141 - 255 | Default to unit setting |

| ADJ Focus Spot 6Z - DMX Modes and Values | | | | |
|---|---|---|---|---|
| Supports software version 1.2.2 and up. | | | | |
| Features subject to change without notice. | | | | |
| **Channel Mode** | | | **Values** | **Traits** |
| **Basic** | **Standard** | **Ext** | | |
| | | | *Dim Curves* | |
| | 23 | 27 | 000 - 020 | Linear |
| | | | 021 - 040 | Square |
| | | | 041 - 060 | Inv. Squa |
| | | | 061 - 080 | S. Curve |
| | | | 081 - 255 | No function |
| 20 | 24 | 28 | 000 - 255 | Pan/Tilt Speed, max to min speed |
| | | | *LED Refresh Rate* | |
| | | | 000 - 010 | Default LED Refresh Rate |
| | | | 011 | 900 Hz |
| | | | 012 | 910 Hz |
| | | | 013 | 920 Hz |
| | | | 014 | 930 Hz |
| | | | 015 | 940 Hz |
| | | | 016 | 950 Hz |
| | | | 017 | 960 Hz |
| | | | 018 | 970 Hz |
| | | | 019 | 980 Hz |
| 21 | 25 | 29 | 020 | 990 Hz |
| | | | 021 | 1000 Hz |
| | | | 022 | 1010 Hz |
| | | | 023 | 1020 Hz |
| | | | 024 | 1030 Hz |
| | | | 025 | 1040 Hz |
| | | | 026 | 1050 Hz |
| | | | 027 | 1060 Hz |
| | | | 028 | 1070 Hz |
| | | | 029 | 1080 Hz |
| | | | 030 | 1090 Hz |
| | | | 031 | 1100 Hz |
| *CONTINUED ON NEXT PAGE* | | | | |

| ADJ Focus Spot 6Z - DMX Modes and Values | | | | |
|---|---|---|---|---|
| Supports software version 1.2.2 and up. | | | | |
| Features subject to change without notice. | | | | |
| **Channel Mode** | | | **Values** | **Traits** |
| **Basic** | **Standard** | **Ext** | | |
| | | | *LED Refresh Rate (cont'd from previous page)* | |
| | | | 032 | 1110 Hz |
| | | | 033 | 1120 Hz |
| | | | 034 | 1130 Hz |
| | | | 035 | 1140 Hz |
| | | | 036 | 1150 Hz |
| | | | 037 | 1160 Hz |
| | | | 038 | 1170 Hz |
| | | | 039 | 1180 Hz |
| | | | 040 | 1190 Hz |
| | | | 041 | 1210 Hz |
| | | | 042 | 1220 Hz |
| | | | 043 | 1230 Hz |
| | | | 044 | 1240 Hz |
| | | | 045 | 1250 Hz |
| 21 | 25 | 29 | 046 | 1260 Hz |
| | | | 047 | 1270 Hz |
| | | | 048 | 1280 Hz |
| | | | 049 | 1290 Hz |
| | | | 050 | 1300 Hz |
| | | | 051 | 1310 Hz |
| | | | 052 | 1320 Hz |
| | | | 053 | 1330 Hz |
| | | | 054 | 1340 Hz |
| | | | 055 | 1350 Hz |
| | | | 056 | 1360 Hz |
| | | | 057 | 1370 Hz |
| | | | 058 | 1380 Hz |
| | | | 059 | 1390 Hz |
| | | | 060 | 1400 Hz |
| | | | 061 | 1410 Hz |
| *CONTINUED ON NEXT PAGE* | | | | |

| ADJ Focus Spot 6Z - DMX Modes and Values | | | | |
|---|---|---|---|---|
| Supports software version 1.2.2 and up. | | | | |
| Features subject to change without notice. | | | | |
| **Channel Mode** | | | **Values** | **Traits** |
| **Basic** | **Standard** | **Ext** | | |
| | | | *LED Refresh Rate (cont'd from previous page)* | |
| | | | 062 | 1420 Hz |
| | | | 063 | 1430 Hz |
| | | | 064 | 1440 Hz |
| | | | 065 | 1450 Hz |
| | | | 066 | 1460 Hz |
| | | | 067 | 1470 Hz |
| | | | 068 | 1480 Hz |
| | | | 069 | 1490 Hz |
| | | | 070 | 1500 Hz |
| | | | 071 | 2500 Hz |
| | | | 072 | 4000 Hz |
| | | | 073 | 5000 Hz |
| | | | 074 | 6000 Hz |
| | | | 075 | 10,000 Hz |
| 21 | 25 | 29 | 076 | 15,000 Hz |
| | | | 077 | 20,000 Hz |
| | | | 078 | 25,000 Hz |
| | | | 079 | Disable LED Refresh Rate |
| | | | *Function* | |
| | | | 080 - 089 | Enable blackout while Pan/Tilt moving |
| | | | 090 - 099 | Disable blackout while Pan/Tilt moving |
| | | | 100 - 109 | Enable blackout while color changing |
| | | | 110 - 119 | Disable blackout while color changing |
| | | | 120 - 129 | Enable blackout while gobo changing |
| | | | 130 - 139 | Disable blackout while gobo changing |
| | | | *Reset* | |
| | | | 140 - 149 | Reset All |
| | | | 150 - 159 | Reset Pan/Tilt |
| | | | 160 - 169 | Reset Color and Gobo |
| | | | 170 - 179 | Reset Effects and Focus |
| *CONTINUED ON NEXT PAGE* | | | | |

| ADJ Focus Spot 6Z - DMX Modes and Values | | | | |
|---|---|---|---|---|
| Supports software version 1.2.2 and up. | | | | |
| Features subject to change without notice. | | | | |
| **Channel Mode** | | | **Values** | **Traits** |
| **Basic** | **Standard** | **Ext** | | |
| 21 | 25 | 29 | *Internal Programs* | |
| | | | 180 - 185 | Internal Program 1 (Scenes 1-8) |
| | | | 186 - 191 | Internal Program 2 (Scenes 9-16) |
| | | | 192 - 197 | Internal Program 3 (Scenes 17-24) |
| | | | 198 - 199 | Internal Program 4 (Scenes 25-32) |
| | | | 200 - 205 | Internal Program 5 (Scenes 33-40) |
| | | | 206 - 211 | Internal Program 6 (Scenes 41-48) |
| | | | 212 - 216 | Internal Program 7 (Scenes 49-56) |
| | | | *Fan Modes* | |
| | | | 217 - 227 | Fan Mode Low |
| | | | 228 - 238 | Fan Mode High |
| | | | 239 - 249 | Fan Mode Auto |
| | | | 250 - 255 | No Function |

## CONTROL PANEL

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made. (See image below) During normal operation, pressing the **MENU** button once will access the fixture's main menu. Once in the main menu, you can navigate through the different functions and access the sub-menus with the **UP** and **DOWN** buttons. When you reach a field that requires adjusting, press the **ENTER** button to access that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MENU** button.
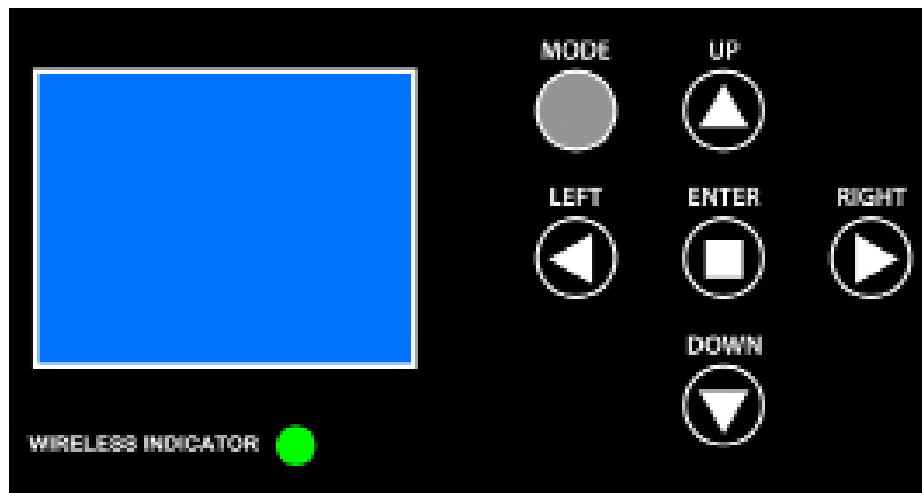


## LCD CONTROL PANEL LOCKOUT

When the **Key Lock** function is activated, the control panel will automatically lock after the time set under the **Display** submenu "**Screen Saver Delay**".

When the **Key Lock** function is set to **ON**, the control panel will lock. Press and hold the **MODE** button for 3 seconds to unlock.

When the **Key Lock** function is set to **ON1**, the control panel will lock, and will not unlock without a code. To unlock the display follow these steps:

1. Press the **UP** button, and the display will change to: ⁅ * ⁆ (one * appears)**.**

2. Press the **DOWN** button, and the display will change to: ⁅ * | * ⁆ (two * appear)**.**

3. Press the **UP** button, and the display will change to: ⁅ * | * | * ⁆ (three * appear)**.**

4. Press the **DOWN** button, and the display will change to: ⁅ * | * | * | * ⁆ (four * appear)**.**

5. Press the **ENTER** buttton, and the display will be unlocked.

If the button sequence was entered correctly, the display and control panel will unlock. If the button sequence was entered incorrectly, the display will return to the DMX addess display.

| | | | |
|---|---|---|---|
| **DMX SETTINGS** | Set Address | **A001**~AXXX | |
| | DMX Channel Mode | Basic (21-ch) | |
| | | Standard (25-ch) | |
| | | Extended (29-ch) | |
| | No DMX Status | **Hold Last** | |
| | | Blackout | |
| | | Manual | |
| **PERSONALITY** | Primary | On / Off | |
| | Secondary | On / Off | |
| | Status Settings | Pan Degree | **540** / 630 |
| | | Pan Invert | On / **Off** |
| | | Tilt Invert | On / **Off** |
| | | P/T Feedback | **On** / Off |
| | | P/T Speed | **Speed 1** |
| | | | Speed 2 |
| | | Hibernation | Off |
| | | | 01~99 min |
| | | | **15 min** |
| | Fixture ID | Service PIN | Password = 050 |
| | | Universe | 000 - 255 |
| | | Unit IP Addr | |
| | | Mask Addr | |
| | Protocol Set | **ArtNet** | |
| | | sACN | |
| | Net Switch | **On** / Off | |
| | Fan Settings | Head | **Auto** |
| | | | High |
| | | | Silent |
| | Dim Modes | Standard | |
| | | Stage | |
| | | TV | |
| | | Architectural | |
| | | Theatre | |
| *CONTINUED ON NEXT PAGE* | | | |

| PERSONALITY (cont'd from prev page) | Dim Modes (cont'd from prev page) | Stage 2 | | |
|---|---|---|---|---|
| | | Dim Speed | 0.1s ~ 10s | |
| | LED Refresh Rate | 900~1500 Hz | **10 KHz (Default)** | |
| | | 2500 Hz | | |
| | | 4000 Hz | | |
| | | 5000 Hz | | |
| | | 6000 Hz | | |
| | | 10 KHz | | |
| | | 15 KHz | | |
| | | 20 KHz | | |
| | | 25 KHz | | |
| | Gamma | 1.0 | | |
| | | **2.0** | | |
| | | 2.2 | | |
| | | 2.4 | | |
| | | 2.6 | | |
| | | 2.8 | | |
| | Reset Motors | Reset All Motors | Yes / **No** | |
| | | Pan/Tilt Reset | Yes / **No** | |
| | | Effect Reset | Yes / **No** | |
| | | Shutter Reset | Yes / **No** | |
| | Display | Intensity | 1 ~ **10** | |
| | | Display Invert | Yes / **No** | |
| | | Screen Saver Delay | Off - 10min | |
| | | Key Lock | Off / On | |
| | Service | Effect Adjust | Pan, Tilt, ColorWheel1, ColorWheel2, Gobo1, Gobo1Rot1...7, Gobo2, Gobo2Rot1...7, Prism1, Prism1Rot, Prism2, Prism2Rot, Focus, Zoom, Iris, Frost1, Frost2 | |
| | | USB Port Power | On / **Off** | |
| | | Update Software | Yes / **No** | |
| | | Factory Restore | Yes / **No** | Passcode = 011 |

*CONTINUED ON NEXT PAGE*

| | | | | |
|---|---|---|---|---|
| **MANUAL CONTROL** | Pan | 000 - 255 | | |
| | Pan Fine | 000 - 255 | | |
| | Tilt | 000 - 255 | | |
| | Tilt Fine | 000 - 255 | | |
| | Color1 | 000 - 255 | | |
| | Color2 | 000 - 255 | | |
| | Gobo1 | 000 - 255 | | |
| | Gobo1 Rot | 000 - 255 | | |
| | Gobo2 | 000 - 255 | | |
| | Gobo2 Rot | 000 - 255 | | |
| | Prism 1 | 000 - 255 | | |
| | Prism 1 Rot | 000 - 255 | | |
| | Prism 2 | 000 - 255 | | |
| | Prism 2 Rot | 000 - 255 | | |
| | Shutter | 000 - 255 | | |
| | Dimmer | 000 - 255 | | |
| | Dimmer Fine | 000 - 255 | | |
| | Focus | 000 - 255 | | |
| | Zoom | 000 - 255 | | |
| | Iris | 000 - 255 | | |
| | Frost 1 | 000 - 255 | | |
| | Frost 2 | 000 - 255 | | |
| | Dim Modes | 000 - 255 | | |
| | P/T Speed | 000 - 255 | | |
| | Special Function | 000 - 255 | | |
| **INTERNAL PROGRAMS** | Program 1 | Speed | 000 - 255 | |
| | | Fade | 000 - 255 | |
| | Program 2 | Speed | 000 - 255 | |
| | | Fade | 000 - 255 | |
| | Program 3 | Speed | 000 - 255 | |
| | | Fade | 000 - 255 | |
| | Program 4 | Speed | 000 - 255 | |
| | | Fade | 000 - 255 | |
| *CONTINUED ON NEXT PAGE* | | | | |

| INTERNAL PROGRAMS *(cont'd from previous page)* | Program 5 | Speed | 000 - 255 | |
| | | Fade | 000 - 255 | |
| | Program 6 | Speed | 000 - 255 | |
| | | Fade | 000 - 255 | |
| | Program 7 | Speed | 000 - 255 | |
| | | Fade | 000 - 255 | |
| INFORMATION | Fixture Life Time | Power On Time | *Lifetime fixture run time, non reset-table* | |
| | | P-On Time-R | *Fixture run time since last reset* | |
| | | P-On Time Reset | Passcode = 050 | |
| | Total LED Time | LED On Time | *Lifetime LED run time, non resettable* | |
| | | LED On Resettable Time | *LED run time since last reset* | |
| | | LED Hours Reset | Passcode = 050 | |
| | Fixture Temps | LEDs | Current | |
| | | | Max Resettable | |
| | | | Max Not Reset-table | |
| | | Reset LED Temp | Yes / **No** | Passcode = 050 |
| | Fan Info | LED Fan | | |
| | DMX Values | Pan | | |
| | | Tilt | | |
| | | ... | | |
| | | Special Function | | |
| | Error Logs | Fixture Errors | Passcode = 050 | |
| | | Reset Error Log | Yes / **No** | Passcode = 050 |
| | Software Version | 1.2.2 | | |

**DMX SETTINGS**

- *SET ADDRESS* - In this submenu you can find and set your desired DMX address.

- *DMX CHANNEL MODE* - In this submenu you can find and set your desired DMX channel mode.

- *NO DMX STATUS* - This submenu setting is used as a precaution mode in case the DMX signal is lost or interrupted. The operating mode chosen in this submenu is the running mode the fixture will go into when the DMX signal is lost. Listed below are the 3 modes.

• **Hold Last** - This setting will have the fixture stay in the last DMX setup.

• **Blackout** - This setting will have the fixture automatically go into stand by mode.

• **Manual** - This setting will go into the current manual control set up. See **MANUAL CONTROL**.

**PERSONALITY**

- *PRIMARY-SECONDARY MODE -* In these submenus, you are able to configure the fixture to function as a primary or secondary unit.

- *STATUS SETTINGS* - In this submenu you are able to access and adjust/change: Pan Degree, Pan Invert, Tilt Invert, P./T. Feedback, P./T. Speed, and Hibernation.

- *FIXTURE ID* - In this submenu you are able to assign the universe, IP address, and mask address for this fixture.

- *PROTOCOL SET -* In this submenu you are able to select whether the fixture will adhere to the ArtNet or sACN protocol.

- *NET SWITCH -* In this submenu you are able to enable or disable the Network ports.

- *FAN SETTINGS* - In this submenu you are able to select your desired fan speed setting.

- *DIM MODES* - In this submenu you are able to select your desired dimmer mode and adjust the dimming speed time.

- *LED REFRESH RATE* - In this submenu you are able to select your desired LED refresh rate.

- *GAMMA -* In this submenu you are able to adjust the gamma correction factor.

- *RESET MOTORS* - In this submenu you are able to reset selected motors.

- *DISPLAY* - In this submenu you you are able to adjust the display intensity, invert the display, set the idle time before the screen auto-locks, and activate/deactivate the display lock.

- *SERVICE* - In this submenu you are able to access and adjust/change: the calibration (effect adjust), activate the service port, update software, and restore the factory settings.

**MANUAL CONTROL -** This menu is for manual testing and manual control. Pan, tilt, color wheel, gobo wheels, gobo rotation, prisms, prism rotation, shutter, dimmer, focus, zoom, iris, frost filters, dim modes, pan/tilt speed, and special functions can be controlled.

**INTERNAL PROGRAMS -** In this menu you are able to select 1 of 7 internal programs to run. Program running speed and fade speed are adjustable.

**INFORMATION -**

- *FIXTURE LIFE TIME*

• *Power On Time -*The *TOTAL* power ON running time of the unit is displayed. This time *CANNOT* be reset.

• *P-On Time-R* - The *CURRENT* power ON running time of the unit is displayed. This running time may not be the same as the total power ON running time displayed under *"Power On Time"*. This time *CAN* be reset.

• *P-On Time-Reset* - Reset the *CURRENT* power ON running time that is displayed under *"P-On Time-R"*.

- *TOTAL LED TIME*

• *LED On Time -* The *TOTAL* LED ON time is displayed. This total LED ON time *CANNOT* be reset.

• *LED On Time-R -* The *CURRENT* LED ON running time is displayed. This running time may not be the same as the total LED ON time displayed under *"LED On Time"*. This total LED ON time *CAN* be reset.

• *LED On Time Reset* - With this function you can reset the *CURRENT* LED ON time that is displayed under *"LED On Time-R"*.

- *FIXTURE TEMPS*

• **LED** - The current temperature of the LED is displayed.

• **Reset LED Temp** - Reset the LED temperature reading.

- *FAN INFO. (RPM)* - In this submenu the current fan speed will be displayed.

- *DMX VALUES* - Displays the DMX values of any DMX channel that is currently in use. *NOTE: DMX value options depend on the current DMX channel mode setting.*

- *ERROR LOGS* - In this submenu you are able to check any unit errors as well a clearing the error log.

- *SOFTWARE VERSION* - Current software version is displayed.

*Primary-Secondary Configuration:*

This function will allows you to link units together to run in a Primary-Secondary set-up, in which one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can be configured to act as a Primary or as a Secondary, but only one unit in a given system can be programmed to act as the Primary.

*Primary-Secondary Connections and Settings:*

1.  Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR data cables to link your units together.  Remember that the Male XLR connector is the input and the Female XLR connector is the ouput. The first unit in the chain (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.

2.  **Primary Unit:**
    Use the display screen and control panel to navigate to **Personality > Primary.** Select this sub-menu using the **ENTER** button, and use the arrows to toggle between ON and OFF. Press **ENTER** to confirm your selection.

3.  **Secondary Unit(s):**
    Use the display screen and control panel to navigate to **Personality > Secondary.** Select this sub-menu using the **ENTER** button, and use the arrows to toggle between ON and OFF. Press **ENTER** to confirm your selection. Repeat this step for all units that will operate in the slave mode setting.

4. The secondary units will now follow the behavior of the primary unit.
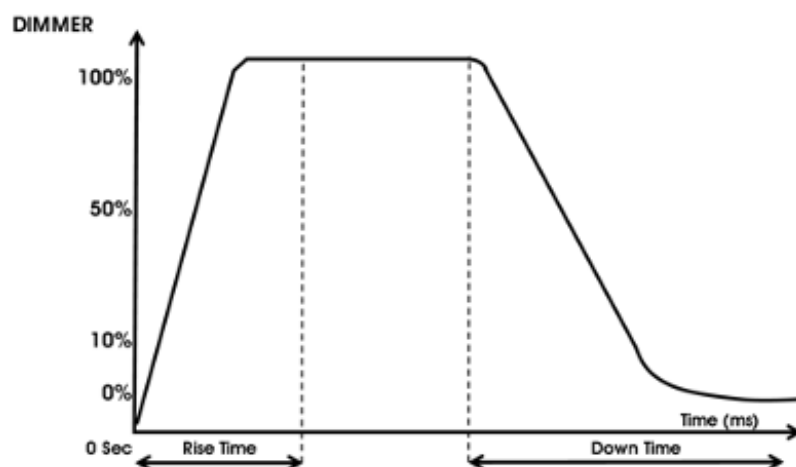
| Dimming Curve Ramp Effect | 0 sec Fade Time | | 1 sec Fade Time | |
|---|---|---|---|---|
| | Rise Time (ms) | Down Time (ms) | Rise Time (ms) | Down Time (ms) |
| Standard (default) | 0 | 0 | 0 | 0 |
| Stage | 780 | 1100 | 1540 | 1660 |
| TV | 1180 | 1520 | 1860 | 1940 |
| Architectural | 1380 | 1730 | 2040 | 2120 |
| Theatre | 1580 | 1940 | 2230 | 2280 |
| Stage 2 | 0 | 1100 | 0 | 1660 |

LINEAR      SQUARE      INVERSE SQUARE      S-CURVE
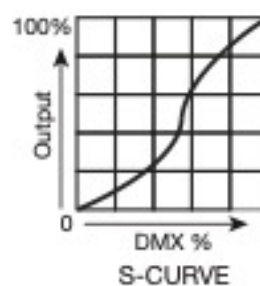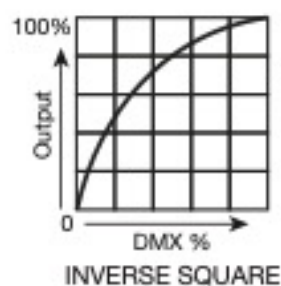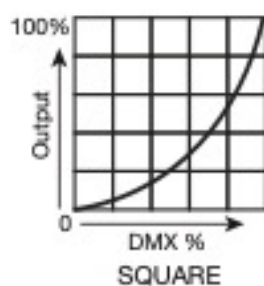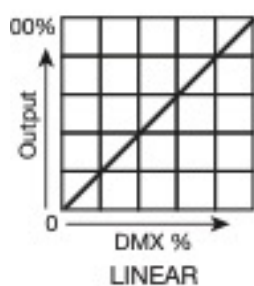
The gobo's featured in this unit are interchangable. Remember when changing these gobos that they are easily bent or damaged. Please perform this procedure with caution in order to avoid damaging the gobos.
**Caution!** *Never open the unit when in use. Always disconnect the main power before attempting to change the gobos.*

1. Engage both the pan and tilt locks. Unscrew the four (4) screws that secure the cover to the head, then remove the safety clip that attaches near the bottom of the head and remove the cover.

2. Locate the gobo wheels and color wheels. They are positioned near the second large silver thumb screw on each side of the head. Turn the color wheel to that the open slot is facing towards you, and then turn the gobo wheel until the gobo you wish to replace is aligned with the open slot of the color wheel.
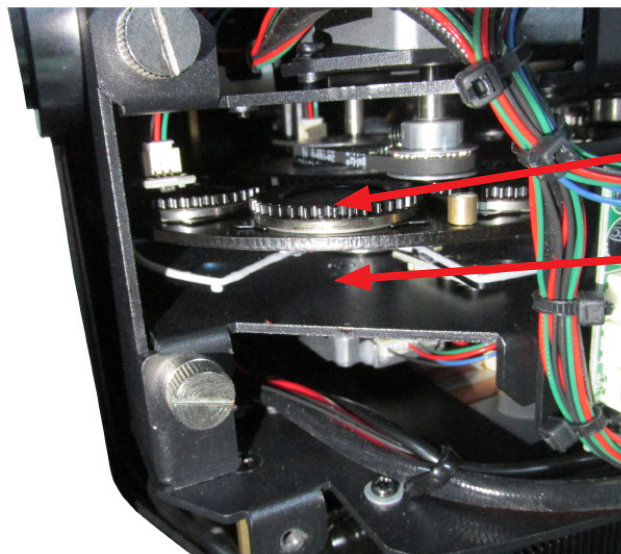
**Gobo being changed is aligned to open slot in color wheel**

**Open slot in color wheel pointing towards user**

3. Gently push the gobo holder upwards from below (left). When the silver part of the gobo holder clears the face of the gobo wheel, gently grasp the black geared portion of the gobo holder with your fingers and pull the gobo holder away from the gobo wheel (right). The gobo holder should come away easily. **DO NOT USE EXCESSIVE FORCE WHEN PERFORMING THIS STEP!**
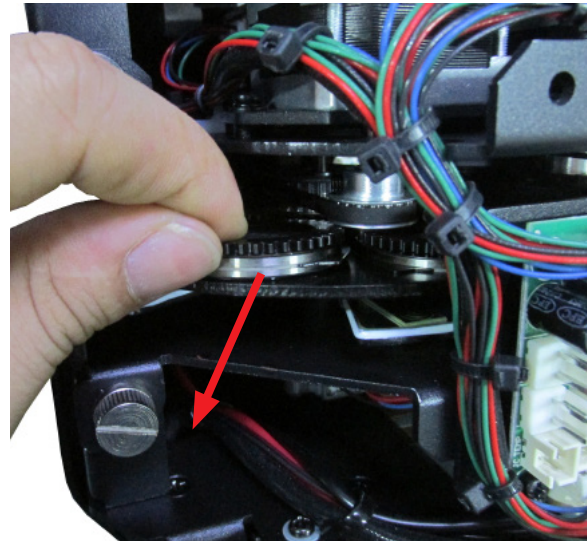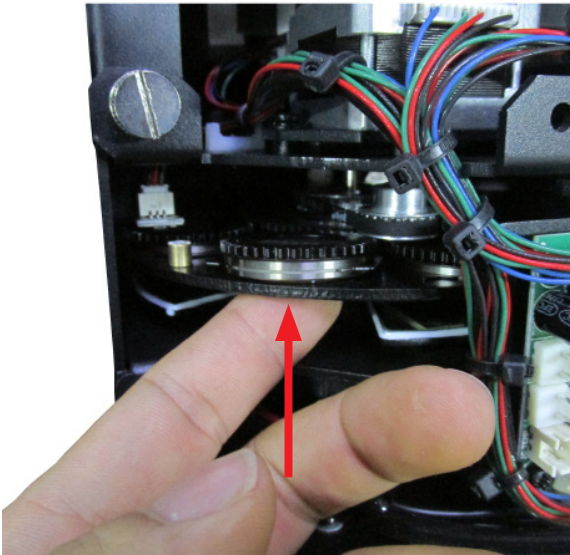


4. Place the gobo holder with the black gear side down. Using a set of tweezers, remove the retaining spring by grasping the end of the spring with the bent tip (right).



**BENT TIP OF SPRING**

5. Remove both the retaining spring and the gobo from the gobo holder.

6. Place the new gobo in the gobo holder with the black side facing downward. Re-install the retaining spring with the un-bent end of the spring in contact with the gobo.

**UN-BENT TIP OF SPRING**
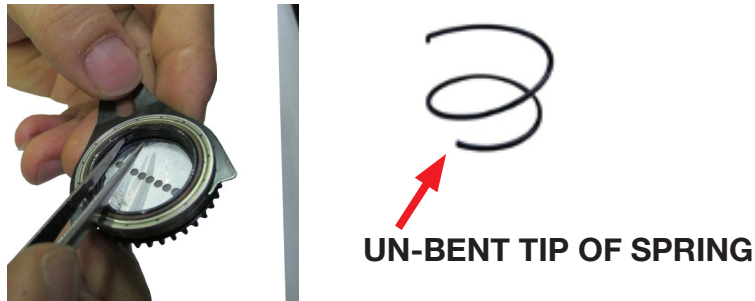
7. Turn the gobo holder over so that the black geared side is facing you. Rotate the geared portion of the gobo holder until the mark on the face of the geared portion is aligned with the clip of the gobo holder.

**MARK ON GEARED PORTION ALIGNED WITH CLIP**
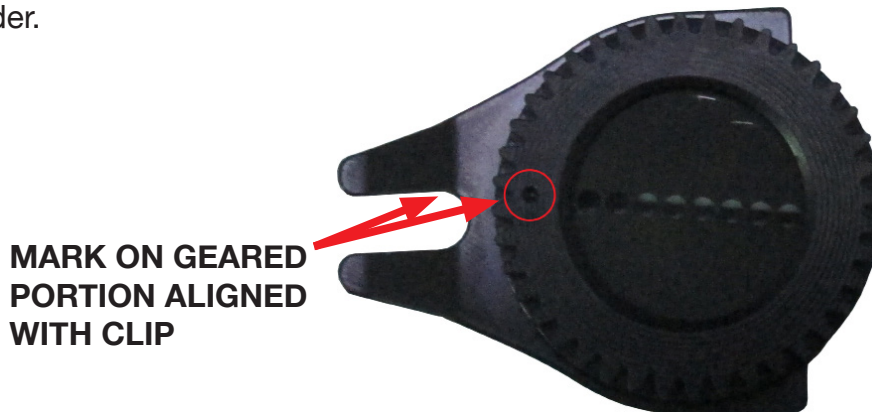
8. Locate the large gear on the gobo wheel that meshes with the geared parts of the gobo holders. Rotate the gobo wheel to turn this large gear until the small, circular magnet on this large gear in pointing outwards.

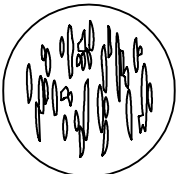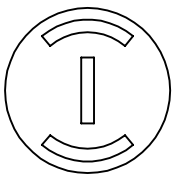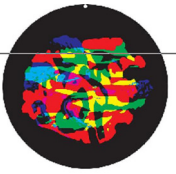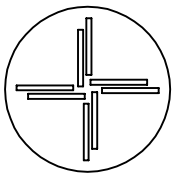**LARGE GOBO WHEEL GEAR**

**MAGNET**
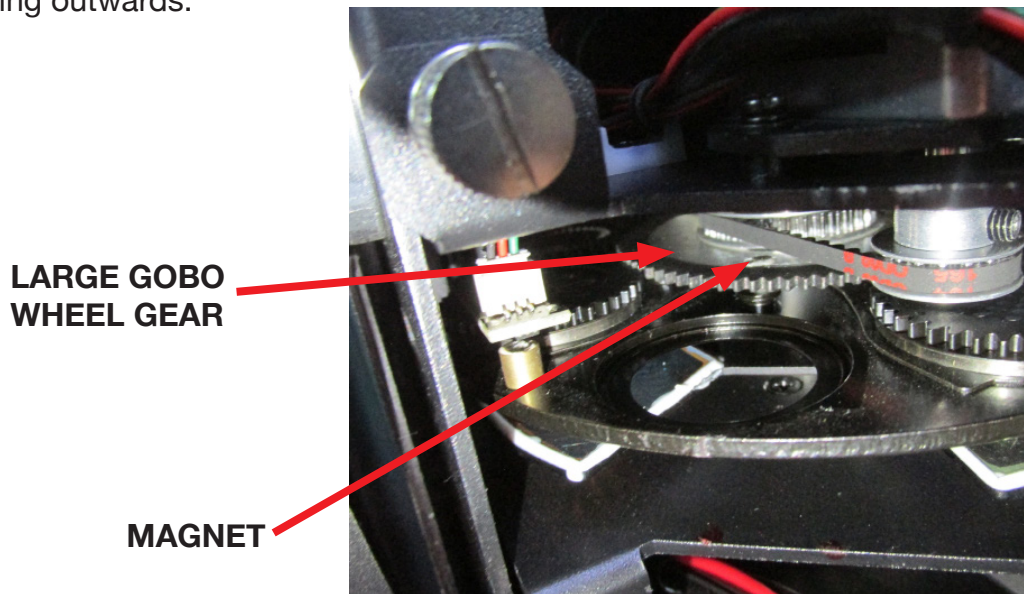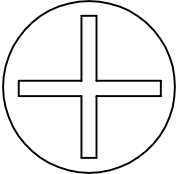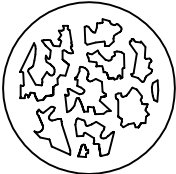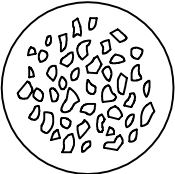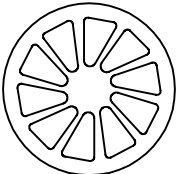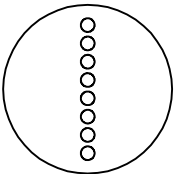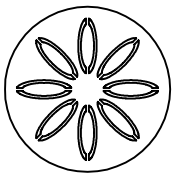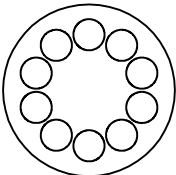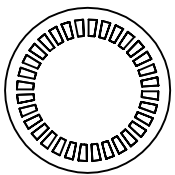
9. Making sure that the mark on the geared portion of the gobo holder is still aligned with the gobo holder clip, insert the clip of the gobo holder onto the attachment point on the gobo wheel. You should hear an audible click as the gobo holder snaps into place.
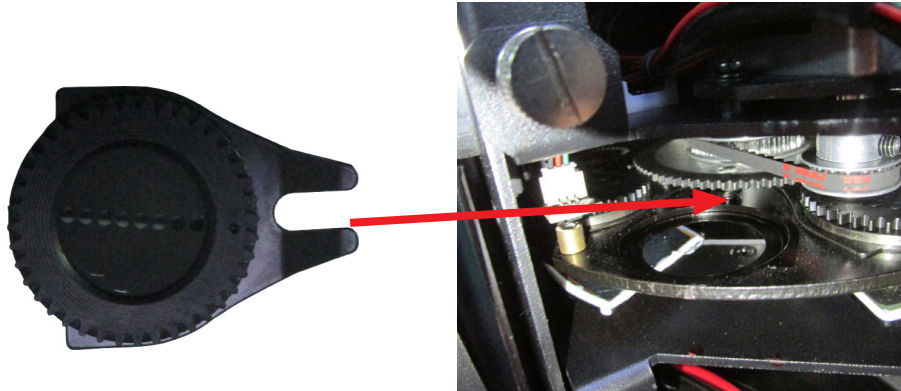


10. Gently push the gobo holder upwards from below, until the silver portion of the gobo holder clears the surface of the gobo wheel. Hold the gobo holder in this position and rotate the gobo holder so that the mark on the black geared portion is aligned with the small circular magnet on the large gobo wheel gear.



**GOBO HOLDER MARK**

**LARGE GOBO WHEEL GEAR MAGNET**
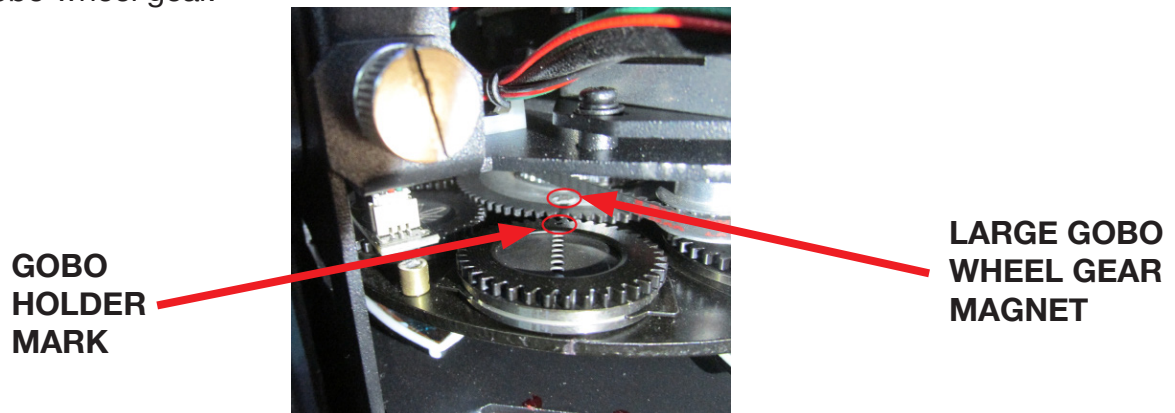
11. Re-attached the safety clip from the cover to the attachment point at the base of the head. Put the cover back in place and tighten the four (4) screws to secure the cover in place.


12. Power the fixture on. Calibrate the newly installed gobo by going to the following location: ***Personality > Service > Effect Adjust.***
    Select the gobo that was just replaced to calibrate. "Gobo1Rot1" represents Gobo Wheel 1, Gobo 1 Rotation; "Gobo1Rot2" represents Gobo Wheel 1, Gobo 2 Rotation, etc. Refer to the **Gobos** section for the assigned value of each gobo as installed by the factory.

| GOBO WHEEL 1 | | GOBO WHEEL 2 | |
|---|---|---|---|
| Gobo No. | Pattern | Gobo No. | Pattern |
| 1 |  | 1 |  |
| 2 |  | 2 |  |
| 3 |  | 3 |  |
| 4 |  | 4 |  |
| 5 |  | 5 |  |
| 6 |  | 6 |  |
| 7 |  | 7 |  |

Color Wheel 1

Color Wheel 2
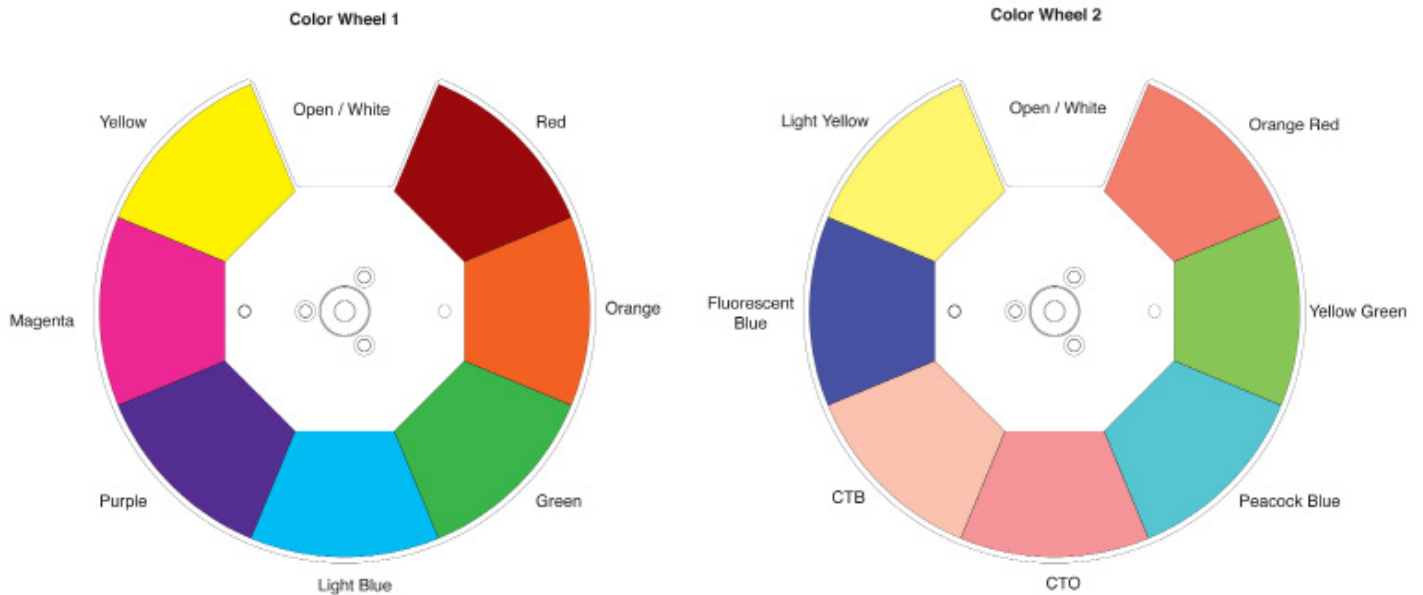
Unplug the unit from any power source it may be connected to. Once the power has been disconnected, use a flat head screw driver to unscrew the fuse holder located next to the Power In port. Remove the bad fuse and replace with a new one, and screw the fuse holder back in. **Replace only with a new fuse of the same type and rating.**



Fuse Location
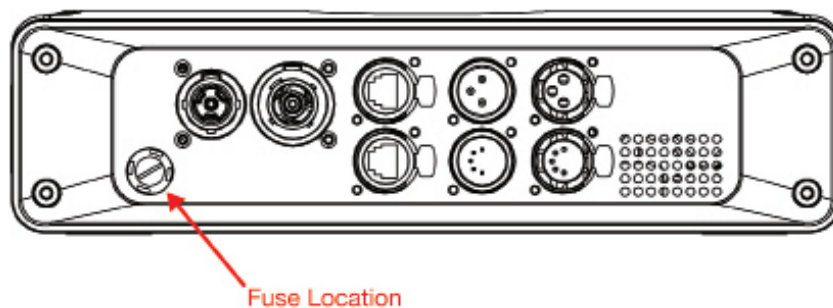
**With this feature you can connect the fixtures to one another using the power cable input and output sockets.**
*NOTE: USE CAUTION WHEN POWER LINKING OTHER FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE! CHECK SILK SCREEN FOR MAX AMPS.*

Listed below are a few common problems the user may encounter, with solutions.

***Unit not responding to DMX:***
Check that the DMX cables are connected properly and are wired correctly. Also, check that all cables are connected to the right connectors, as connecting the inputs and outputs in the correct order is crucial for proper operation.

Due to fog residue, smoke, and dust, cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

- Use normal glass cleaner and a soft cloth to wipe down the outside casing.

- Clean the external optics with glass cleaner and a soft cloth every 20 days.

- Always be sure to dry all parts completely before plugging the unit back in.

- Cleaning frequency depends on the environment in which the fixture operates. Heavy exposure to smoke, fog residue, dust, dew, etc. may mean that more frequent cleaning is required.

**ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION! NOTE ALL MENU SET-TINGS BEFORE UPDATING SOFTWARE!**
**FIXTURE SOFTWARE CAN NOT BE DOWNGRADED!**
**DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT) PLEASE CONTACT ADJ CUSTOMER SERVICE FOR FURTHER INFORMATION.**

1. Contact ADJ customer service to obtain the updated software. Download to a USB flash drive. In order to minimize the risk of downloading the incorrect software to your device, make sure that the desired update files are the only files on the USB flash drive.

2. Disconnect any DMX connections from your device. Insert the USB flash drive into the service port on your device.

3. Use the display screen control panel to navigate to Personality > Service > USB Port Power. See the **System Menu** section for detailed instructions. Enter the passcode when prompted, and switch the USB Port Power setting to ON.

4. Highlight the desired file and press **ENTER** to select it and begin the download.

5. The unit will then update, run an automatic software check, and reset. This may take some time.

6. Repeat this process for each software update file.

7. Verify by navigating to Information > Software Version and confirming that the correct software version number is shown there (see the **System Menu** section for detailed instructions).
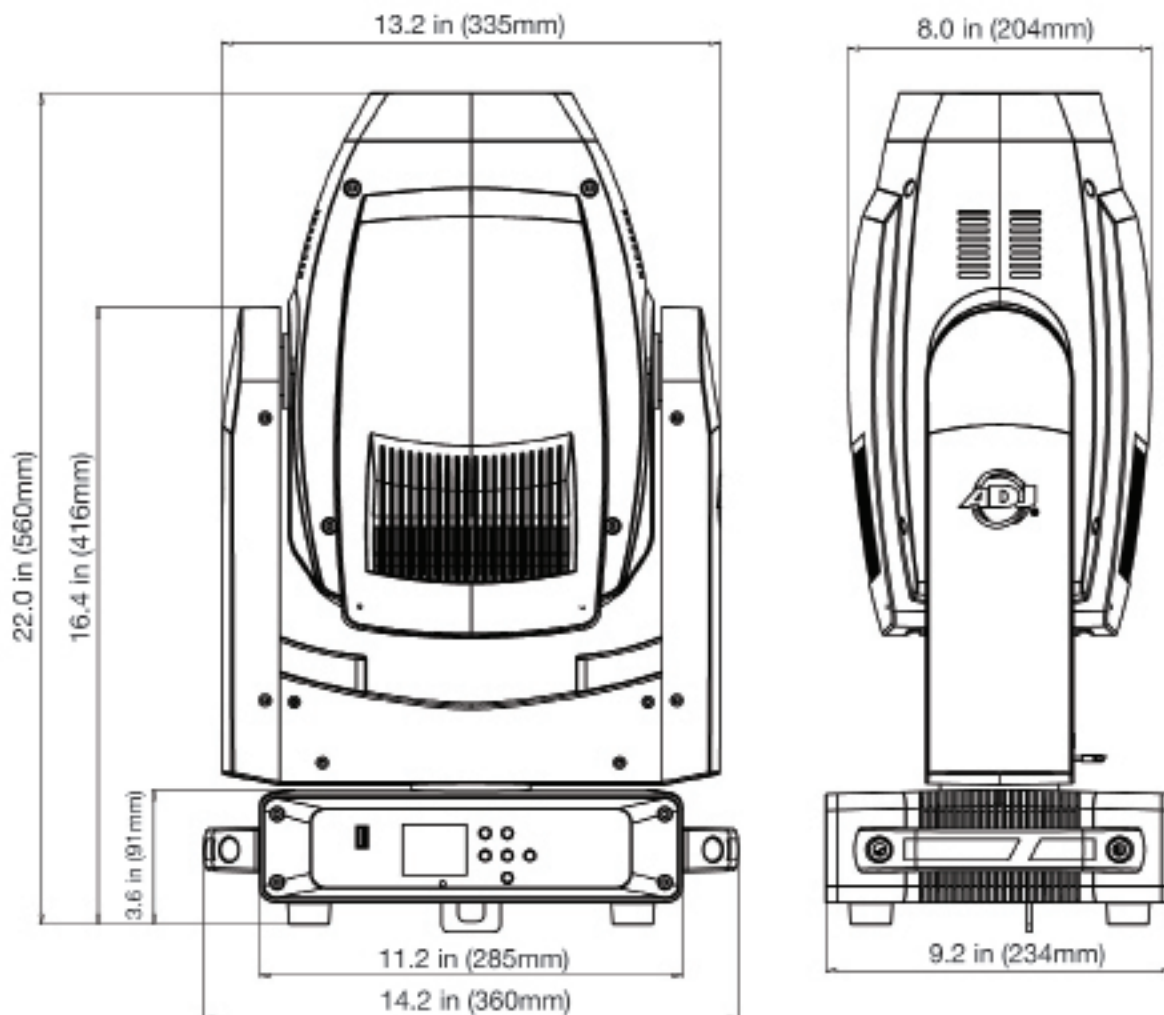
**MANUFACTURER'S LIMITED WARRANTY**

A.  ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B.  For warranty service you must obtain a Return Authorization number (RA#) before sending back the product–please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in it's original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C.  This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.

D.  This is not a service contract, and this warranty does not include maintnance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship.  The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC.  All products covered by this warranty were manufactured after August 15, 2012, and bear indentifying marks to that effect.

E.  ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

**MANUFACTURER'S LIMITED WARRANTY PERIODS:**
- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par  Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excluding laser diodes which have a 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty). **Note: 2 Year Warranty only applies to purchases within the United States.**
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty).
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

13.2 in (335mm)

8.0 in (204mm)

22.0 in (560mm)

16.4 in (416mm)

3.6 in (91mm)

11.2 in (285mm)

14.2 in (360mm)

9.2 in (234mm)

**Drawings may not be to scale.**

**Light Source:**
• 300W Cool White LED Engine (50,000 hr.)

**Features:**
• Motorized Focus
• 2 Frost Filter to create wash effects
• Motorized Zoom: 9~28-degrees
• 2 Prism FX: Rotating 6-facet Linear & rotating 6-facet Circular
• Motorized Iris
• Motorized Shutter
• GOBO Morphing
• 0-100% smooth dimming
• Various strobe speeds
• USB firmware update port

**Color Wheels:**
• Color Wheel 1: 7 dichroic colors + white
• Color Wheel 2: 7 dichroic colors (includes CTO & CTB)

**GOBO Wheels:**
• GOBO Wheel 1: 7 GOBOS + open
• GOBO Wheel 2: 7 GOBOS + open
• GOBO Morphing
• GOBO Shake Effect
• Metal GOBO Size: 23mm (outer), 19mm (viewable), 0.5mm (thickness)
• Glass GOBO Size: 23mm (outer), 19mm (viewable), 1.6mm (thickness)

**Prism Wheel:**
• Prism Wheel 1: Rotatable 6-facet Linear
• Prism Wheel 2: Rotatable 6-facet Circular
• Each Prism is indexable

**Frost Filters:**
• Frost 1: Heavy frost for wash effect
• Frost 2: Light frost creates lightly blurred edges for GOBO and Prism FX

**Control:**
• 3 DMX Channel Modes: 21/25/29 Channels
• Color LCD display with 6-button function menu
• Control Mode: DMX512 or internal programs
• 6 Dimming Curve Modes: Standard, Stage, TV, Architectural, Theatre, Stage 2
• 0-100% smooth dimming
• Various strobe speeds
• USB firmware update port
• With Wired Digital Communication Network

**Pan/Tilt:**
• Pan: 540/630 degrees
• Tilt: 270 degrees
• 16-bit fine Pan & Tilt
• Pan & Tilt locks

**Connections:**
• DMX Connections: 3-pin & 5-pin XLR In/Out
• Power Connections: PowerLock In/Out to daisy chain power
• RJ45 In/Out connections for Art-Net & sACN control

**Electrical:**
• Multi-voltage operation: AC 90-240V, 50/60Hz
• Max power consumption: 380W

**Dimensions & Weight:**
• Dimensions (LxWxH): 14.18" x 9.21" x 22.04" / 360 x 234 x 560mm
• Weight: 42.4 lbs. / 19.4 kg.

**Approvals / Ratings:**
• CE Certified

C **ETL** US
LISTED

**Intertek**
**4010765**

*Please Note:* Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.