

MOD STQ

User Instructions

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Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. 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!

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 Channels | Notes |
|----------|------------------|------------------|--------------------|---------------------------|
| 10/01/19 | 1 | 1.00 | 4/5/7/8/9/12/13/15 | Initial Version |
| 09/01/20 | 2 | 1.02 | No Change | Updated Primary/Secondary |
| 05/22/23 | 3 | N/C | No Change | Updated Format |

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

This product is intended for use by professionally trained personnel only, and is not suitable for private use.

UNPACKING

Every device 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 is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs.

Also visit forums.adj.com with questions, comments or suggestions.

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST

323-582-2650 | Fax: 323-832-2941 | support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET

+31 45 546 85 60 | Fax: +31 45 546 85 96 | support@adj.eu

REPLACEMENT PARTS please visit parts.adj.com



IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.

DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO WARRANTY CLAIMS AND/OR REPAIRS.

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing its operational lifespan.

KEY FEATURES

- Multi-Colors
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- Locking 3-Pin & 5-Pin XLR Connections In/Out
- 8 DMX Channel Modes: 4 / 5 / 7 / 8 / 9 / 12 / 13 / 15
- ADJ UC IR compatible
- Multiple Unit Power Linking

INCLUDED ITEMS:

- Scissor Yoke
- Locking Power Cable
- 3x Frost Filters (20/40/60 Degrees)

WARRANTY REGISTRATION

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 accompanied by 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 on our customer support number. 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.

LIMITED WARRANTY (USA ONLY)

- 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 its 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, or 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 service by anyone other than 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 maintenance, 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 identifying 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.
- F. 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.
- G. 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.

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** (excludes laser diodes which have 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**

SAFETY GUIDELINES

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ Products, LLC is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture, and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



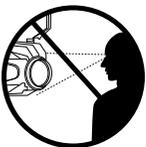
PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



**DO NOT PLUG FIXTURE INTO A DIMMER PACK!
NEVER OPEN THIS FIXTURE WHILE IN USE!
UNPLUG POWER BEFORE SERVICING FIXTURE!
MAXIMUM AMBIENT OPERATING TEMPERATURE IS 104°F (40°C)!
NEVER TOUCH FIXTURE WITH BARE HANDS DURING OPERATION, AS SURFACE TEMPERATURE DURING OPERATION MAY REACH 167°F (75°C)!
KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**

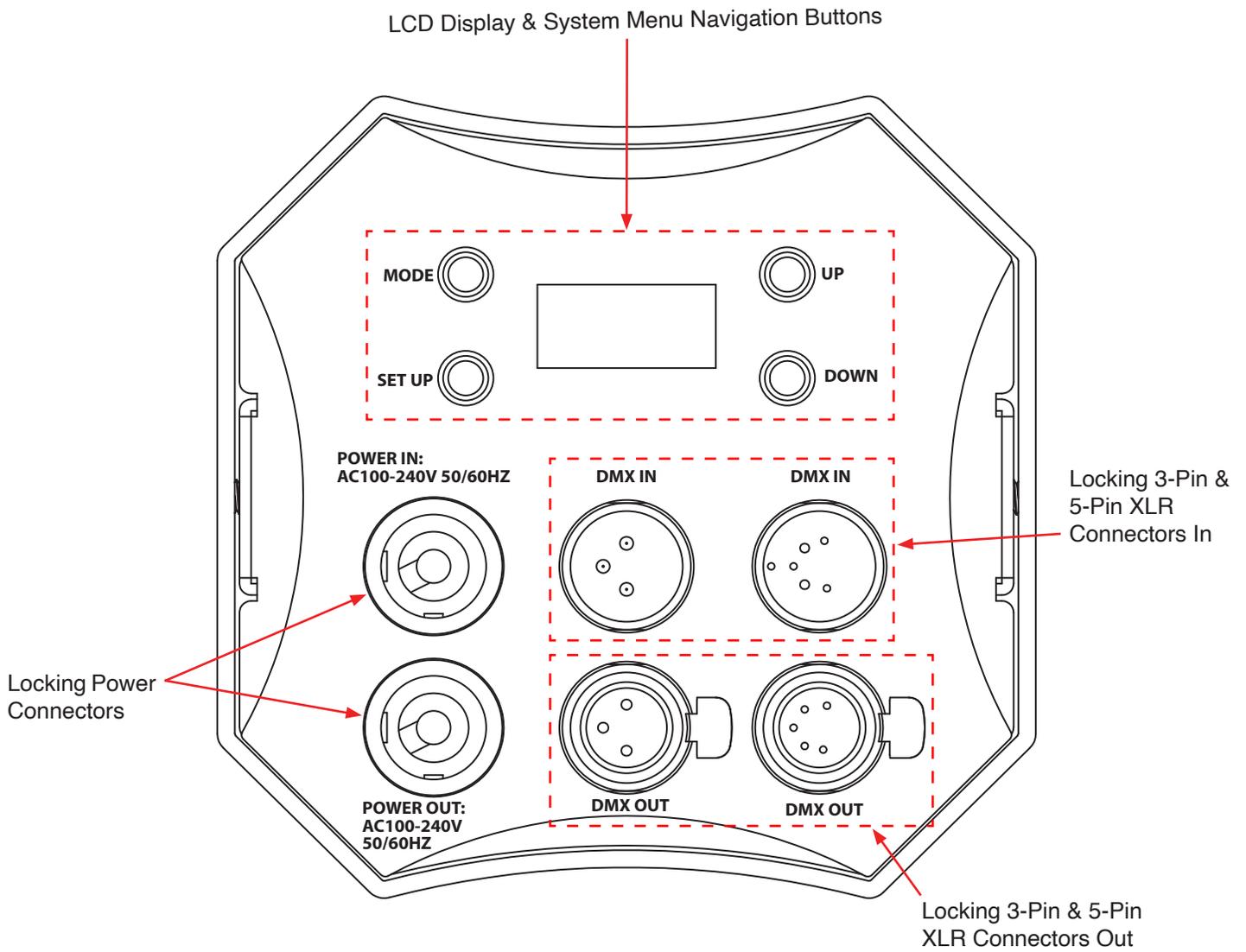


**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

SAFETY GUIDELINES

- **Do not attempt to operate this unit if the power cord has been frayed or broken. 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.**
- **Disconnect from main power before making any type of connection.**
- **Do not remove the cover under any conditions. There are no user serviceable parts inside.**
- **Never operate this unit when it's cover is removed.**
- **Never plug this unit in to a dimmer pack**
- **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.**
- **Do not attempt to operate this unit, if it becomes damaged.**
- **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. See page 23 for cleaning details.**
- **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 device should be serviced by qualified service personnel when:**
 - A. The power-supply cord or the plug has been damaged.**
 - B. Objects have fallen on, or liquid has been spilled into, the device.**
 - C. The charging devices or fixture have been exposed to rain or water.**
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.**

OVERVIEW



UC IR REMOTE CONTROL

The **UC IR** infrared remote gives you control of various functions (See below). To control the fixture you must aim the remote at the front of the fixture and be no more than 30 feet away.

CONTROLS

STAND BY - Pressing this button will blackout the fixture. Press the button again to return to the initial state.

FULL ON - Press this button down to fully light up the unit. Press any button to exit this mode.

FADE/GOBO - This button activate's the internal program mode. Use the numeral buttons 0-9 to select the program number (0-16). Use the dimmer buttons to adjust the output intensity.

NOTE: Running speed and fade speed is not adjustable using the IR control functions.

"DIMMER +" and "DIMMER -" - Use these buttons to adjust the output intensity.

STROBE - Press this button to activate and deactivate strobing. Use buttons 1-4 to adjust the strobe speed. "1" being the slowest, "4" being the fastest. Press this button again to stop strobing.

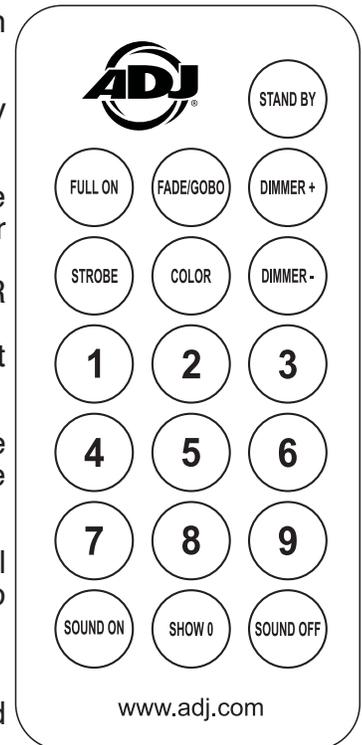
COLOR - Press this button to activate color macro mode. Use the numeral buttons 1-9 to select your desired color (0-64). Use the dimmer buttons to adjust the output intensity.

Example: Press the numeral buttons "1+3" to activate color"13".

SOUND ON & OFF - Use these buttons to activate and deactivate sound active mode. Use the dimmer buttons to adjust the output intensity.

NOTE: Sound sensitivity is not adjustable using the IR control functions.

SHOW 0 - Press this button to select show "0" or color "0" when either internal program mode or color macro mode is active.



INSTALLATION

CLAMP INSTALLATION

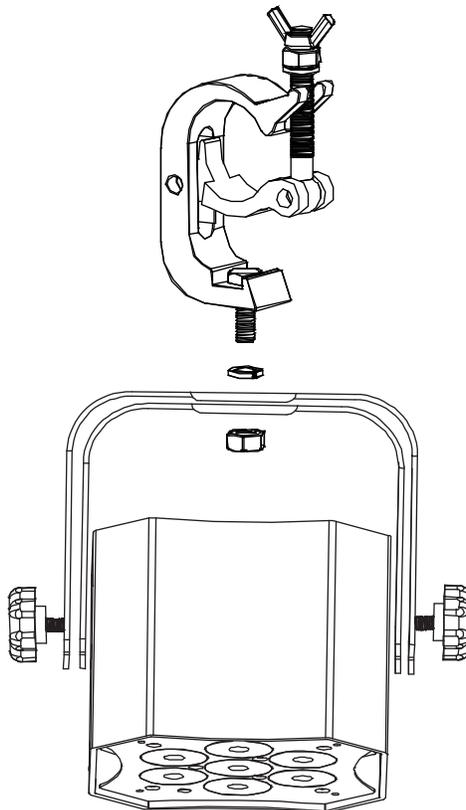
When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit must be secured with a secondary safety attachment, e.g. and appropriate safety cable. Never stand directly below the unit when mounting, removing,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

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

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

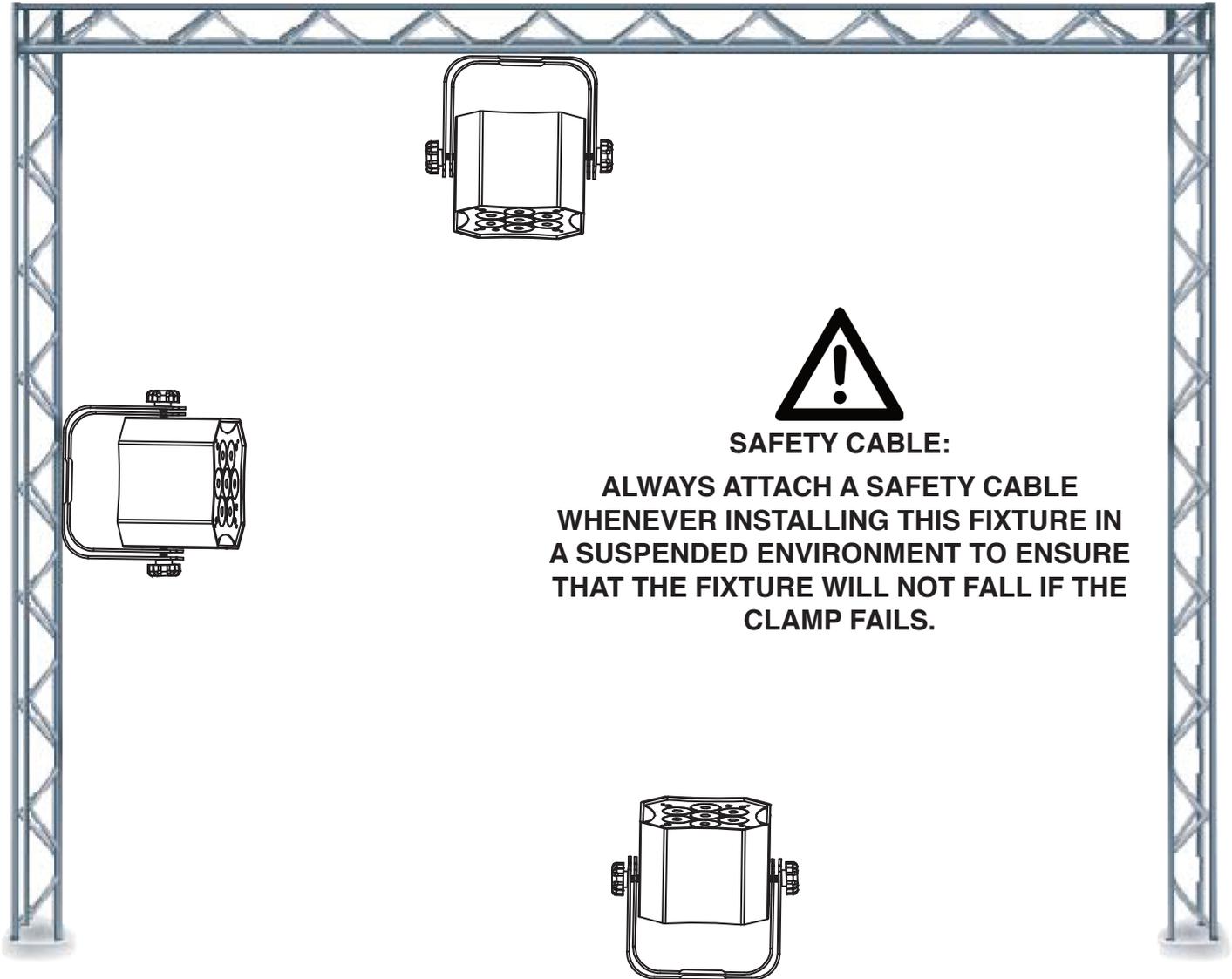
NOTICE: The suitable environmental temperature for this lighting fixture is between -25°C to 45°C . Do not place this lighting fixture in an environment where the temperatures are under or above the temperatures stated above. This will allow the fixture to run at its best and help prolong the fixture life.

Screw one clamp via a M12 screw and nut into the bracket. Pull a safety cable through the opening(s) located on either side of the bracket and over the trussing system or a safe fixation spot. Insert the end in the carabiner, and tighten the safety screw.



INSTALLATION

The **MOD STQ** 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 the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails (see next page). Never use the carrying handles for secondary attachment.

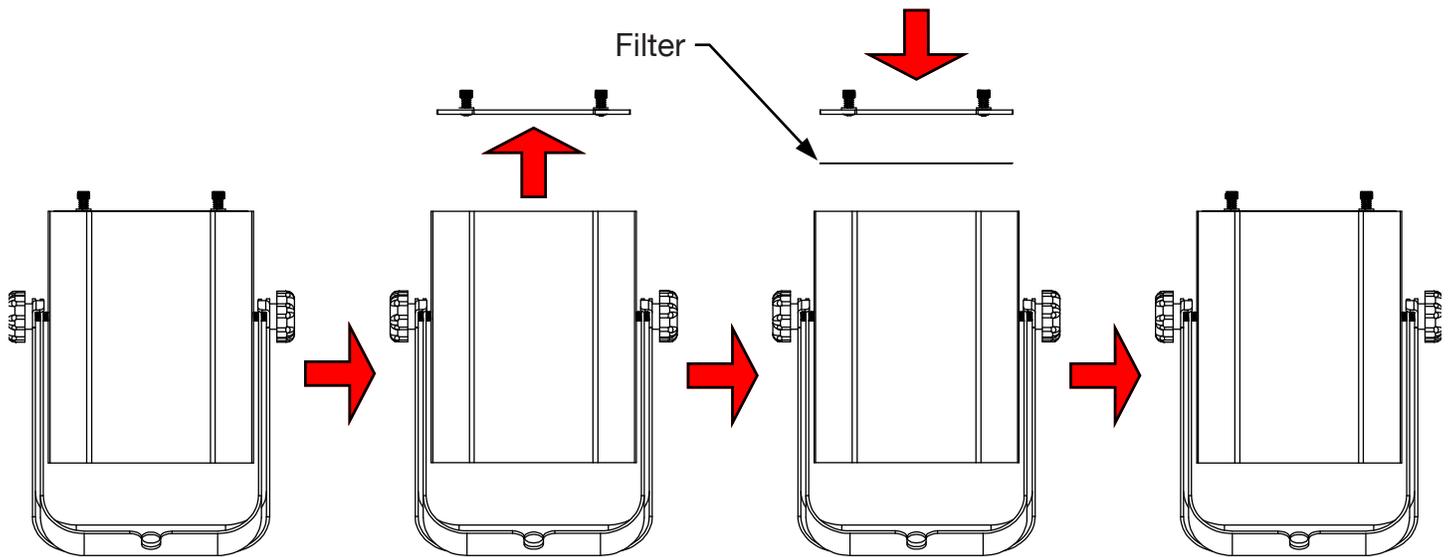


RIGGING

Overhead rigging requires extensive experience, including but not limited to: calculating working load limits, understanding the installation material being used, and periodic safety inspection of all installation material and the fixture itself. If you lack these qualifications, do not attempt to perform the installation yourself. Improper installation can result in bodily injury.

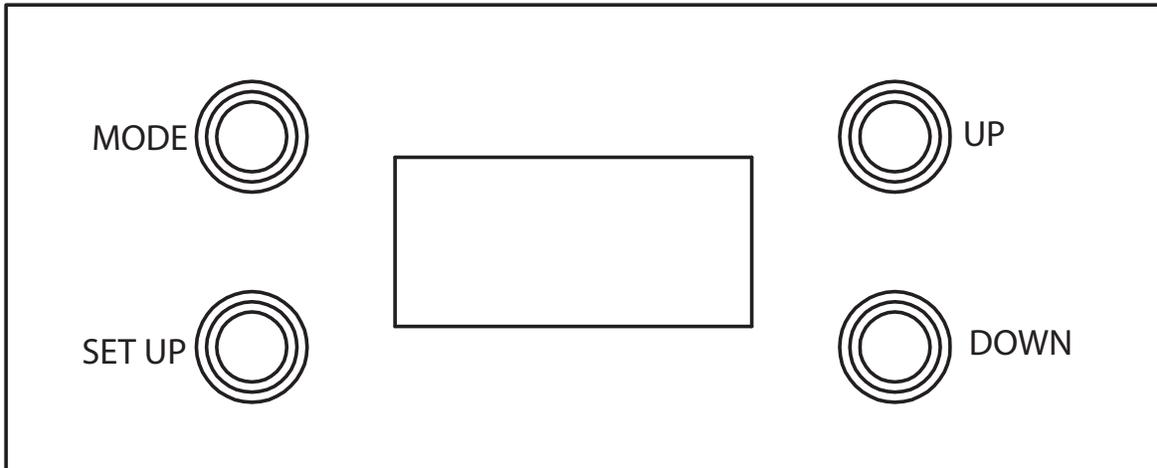
INSTALLATION: FROST FILTER

The **MOD STQ** comes with 3 interchangeable frost filters. The degree of the individual filters is stamped into the corner of each filter. To install the frost filter, unscrew the four thumb screws holding the lens in place. Remove the lens and install the filter inside the unit. Line up the thumb screw holes on the edges of filter with screw holes of the unit. Screw the thumb screws back into place securing the frost filter and lens.



SYSTEM MENU

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 **MODE** 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 **MODE** button.



SYSTEM MENU

| MENU | SUBMENU | OPTIONS | DESCRIPTION |
|---|---------------------|--|--------------------------------------|
| DMX MODE | ADDR: | 001-XXX | DMX Addressing |
| | CHAN: | 4/5/7/8/9/12/13/15 | DMX Channel Mode Selection |
| | NO: | HOLD/BLACK/PROG | DMX Lost Status |
| PERSON (Personality) | PRIMARY | ON/OFF | Primary Setting |
| | SECONDARY | ON/OFF | Secondary Setting |
| | | 1200, 900-1500, 2500, 4000, 5000, 6000, 10000, 15000, 20000, 25000(Hz) | LED Refresh Rate Setting |
| | GMA: | 1.0, 2.0, 2.2, 2.4, 2.6, 2.8 | Gamma Brightness |
| | BACK: | OFF~10M | Display Shutoff Time |
| | LOCK: | OFF~10M | Display Control Lock |
| | CALI: | YES/NO (Pass Code = 11) | Calibration Adjustment |
| | REST | YES/NO (Pass Code = 11) | Restore Factory Settings |
| MANUAL | RED | 000-255 | Manual Control Settings |
| | GREN (Green) | 000-255 | |
| | BLUE | 000-255 | |
| | WHIT (White) | 000-255 | |
| | CLRMA (Color Macro) | 0-64 | |
| | CRTP (Color Temp.) | 0-21 | |
| | STROB (Strobe) | 0-16 | |
| | DIM (Master Dimmer) | 000-255 | |
| | AtPr (Auto Program) | 0-16 | |
| | SPEED (Prog. Speed) | 0-16 | |
| | FADE (Prog. Fade) | 0-16 | |
| IntProgs (Internal Programs) | Program 0 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 0 with Adjustments |
| | Program 1 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 1 with Adjustments |
| | Program 2 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 2 with Adjustments |
| | Program 3 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 3 with Adjustments |
| | Program 4 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 4 with Adjustments |
| | Program 5 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 5 with Adjustments |
| | Program 6 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 6 with Adjustments |
| | Program 7 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 7 with Adjustments |
| | Program 8 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 8 with Adjustments |
| | Program 9 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 9 with Adjustments |
| | Program 10 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 10 with Adjustments |
| | Program 11 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 11 with Adjustments |
| | Program 12 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 12 with Adjustments |
| | Program 13 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 13 with Adjustments |
| | Program 14 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 14 with Adjustments |
| | Program 15 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 15 with Adjustments |
| | Program 16 | Speed: 0~16 Fade: 0~16 Sound: ON/OFF | Program 16 with Adjustments |
| PwronHr1: XXXXXXXH | | | Total Power On Time (Not Resettable) |
| PwronHr2: XXXXXXXH | | | Current Power On Time (Resettable) |
| PwronRst: Pass Code = 050 | | | Reset Current Power On Time |
| INFORMAT TMP: XXX F / XXX C | | | Current Temperature |
| INFORMAT: VX.XX | | | Current Software Version |

SYSTEM MENU

DMX MODE - The submenus listed under **DMX MODE** are as follows: **ADDR (Address)**, **CHAN (Channel Mode)**, and **NO (No DMX Status)**.

- **ADDR** - In this submenu you are able to find and set your desired DMX address.
- **CHAN** - In this submenu you are able to find and set your desired DMX channel mode.
- **NO** - This setting is used as a precaution mode in case the DMX signal is lost or interrupted. The operating mode chosen is the running mode the fixture will go into when the DMX signal is lost. Listed below are the 3 modes.
- **HOLD** - This setting will have the fixture stay in the last DMX setup.
- **BLACK** - This setting will have the fixture automatically go into blackout mode.
- **PROG** - This setting will have the fixture automatically run 1 of 17 (0-16) internal programs.

PERSON (PERSONALITY) - The submenus listed under **PERSON (PERSONALITY)** are as follows: **PRIMARY**, **SECONDRY (Secondary)**, **Dim Mode**, **LED Refresh Rate (LEDRfrsh)**, **Gamma**, **Display**, and **Service**.

- **PRIMARY** - Set the unit to act as the primary unit in a primary-secondary set up.
- **SECONDRY (Secondary)** - Set the unit to act as the secondary unit in a primary-secondary set up.
- **Dimming Modes & Dimming Speed Settings** - In this submenu you are able to set your desired dimmer mode or dimming speed.
- **LED Refresh Rate Setting** - In this submenu you are able to set your desired LED refresh rate.
- **GMA (Gamma)** - In this submenu you are able to set your desired gamma brightness.
- **BACK (Display Blackout)** - In this submenu you are able to adjust and set the display backlight blackout time.
- **LOCK (Display Lock)** - In this submenu you are able to adjust the display/system lock time.
- **CALI (Calibration Adjustment)** - In this submenu you are able to adjust the calibration settings.
- **REST (Factory Settings)** - In this submenu you are able to reset the unit to its factory/default settings.

MANUAL - This submenu is for manual control and testing.

INTPROGS (INTERNAL PROGRAMS) - This menu allows you to select 1 of 16 (0-16) internal programs to run. The internal program speed and fade speeds are adjustable. The internal programs can also be run as sound active.

INFORMATION - The submenus listed under **INFORMATION** are as follows: **Fixture Hours**, **Fixture Temperature**, and **Software Version**.

- **HOURS (FIXTURE HOURS)**
- **PwrOnHr1** -The **TOTAL** power ON running time of the unit is displayed. This time **CANNOT** be reset.
- **PwrOnHr2** - 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.
- **PwrOnRst** - Reset the current power ON running time that is displayed under “**PwrOnHr2**”.
- **INFORMAT TMP (FIXTURE TEMPERATURE) XXX F / XXX C** - Current temperature
- **INFORMAT VX.XX (Software Version)** - Current software version is displayed.

PRIMARY-SECONDARY SETUP

This function will allow the user to link units together to run in a Primary-Secondary set-up. In a Primary-Secondary set up, one unit will act as the controlling unit and the others will react to the controlling units operating mode. Any unit can act as a Primary or as a Secondary fixture, however, only one unit in a series can be programmed to act as the “Primary.”

Primary-Secondary Connections and Settings:

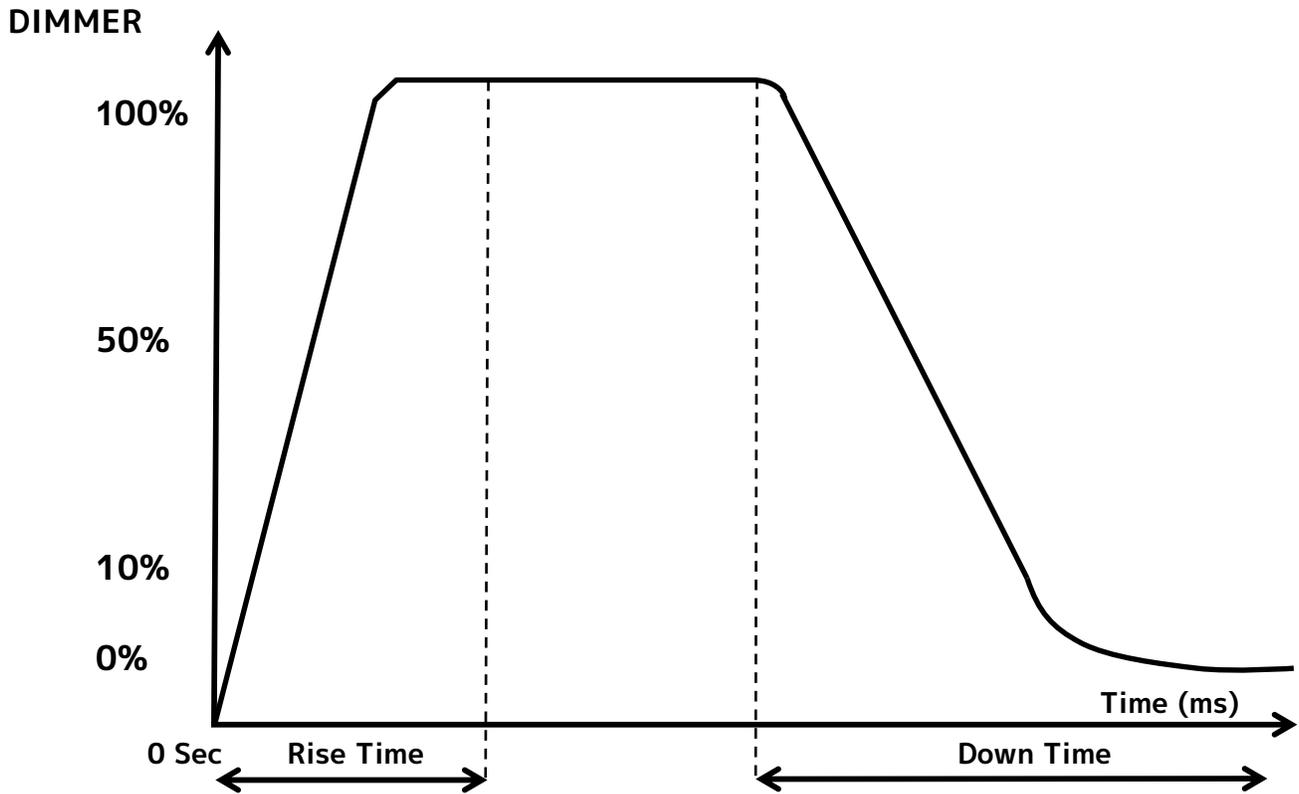
1. Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR data cables to link your units together. Remember that the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (primary) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. Connect the first “Secondary” unit to the “Primary.”
3. **“Primary” Unit:** Activate the “Primary” setting located in the **“PERSNLTY”** menu.
4. **“Secondary” Unit(s):** Activate the “Secondary” setting located in the **“PERSNLTY”** menu.
5. Set the “Primary” unit to your desired mode of operation.
6. The secondary unit(s) will now follow the primary unit.

MULTIPLE UNIT POWER LINKING

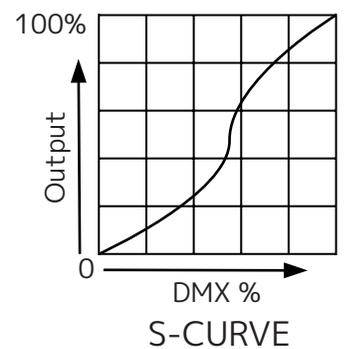
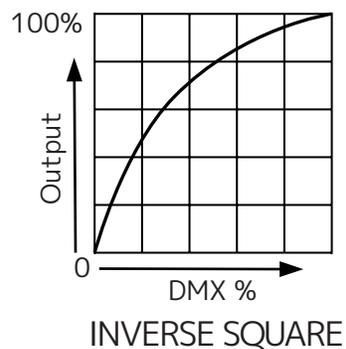
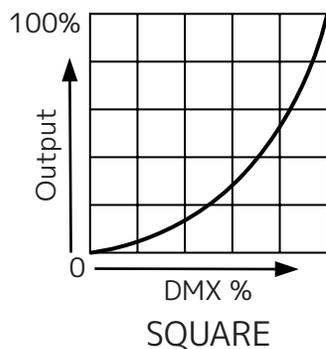
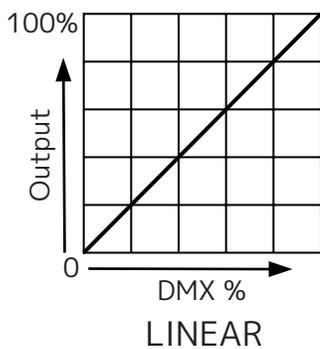
With this feature you can connect the fixtures to one another using the power cable input and output sockets.

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.

DIMMER CURVES AND DIMMER MODES



| 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 |



DMX SETUP

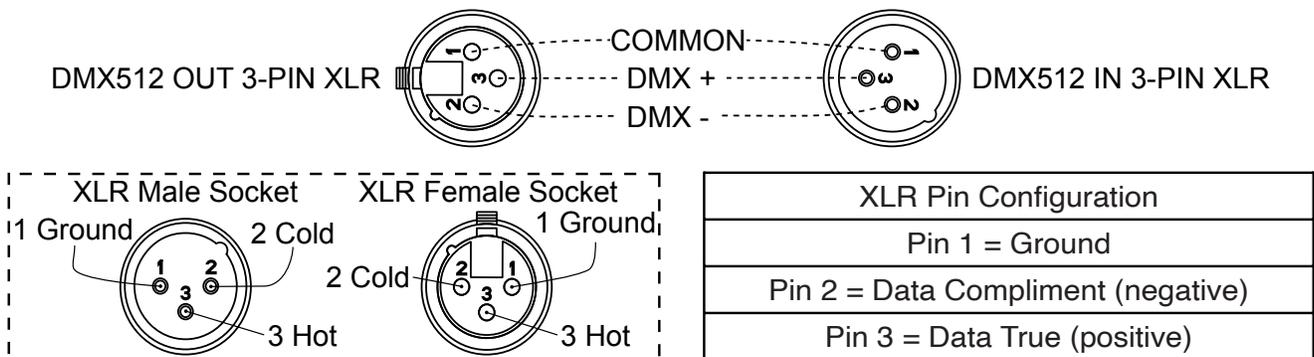
DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture 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 manufacturers 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, try to use the shortest cable path possible when using several DMX fixtures. 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 MOD STQ can be controlled via DMX-512 protocol, and features multiple DMX channel modes. Your unit and your DMX controller can operate with either a 3-pin or 5-pin XLR connector for data input and data output. 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 professional lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.

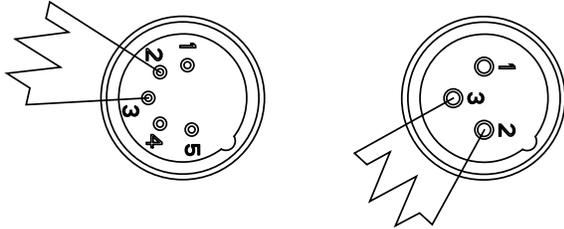


Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR’s outer casing. Grounding the shield could cause a short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



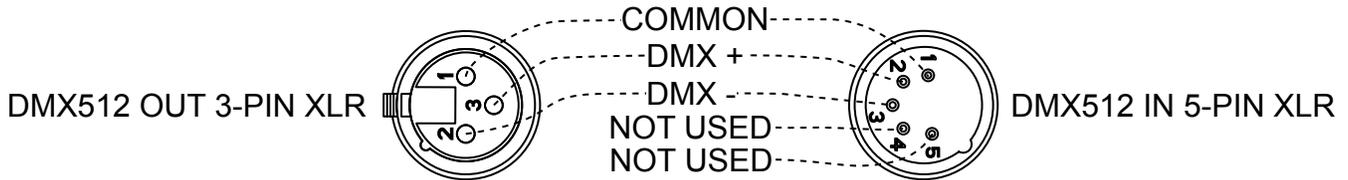
DMX SETUP

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 chances of erratic behavior.



A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

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 | | |
|-----------------------------------|-------|------------|
| 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 |

DMX ADDRESSING

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that 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. This starting DMX address is assigned 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 this case, please note that 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 MOD STQ, when in 4 Channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 5 (4 + 1), the third unit to 9 (5 + 4), and so on. (See chart below for more details.)

| Channel Mode | Unit 1 Addr | Unit 2 Addr | Unit 3 Addr | Unit 4 Addr |
|---------------------|--------------------|--------------------|--------------------|--------------------|
| 4-Channels | 1 | 5 | 9 | 13 |
| 5-Channels | 1 | 6 | 11 | 16 |
| 7-Channels | 1 | 8 | 15 | 22 |
| 8-Channels | 1 | 9 | 17 | 25 |
| 9-Channels | 1 | 10 | 19 | 28 |
| 12-Channels | 1 | 13 | 25 | 37 |
| 13-Channels | 1 | 14 | 27 | 40 |
| 15-Channels | 1 | 16 | 31 | 46 |

DMX TRAITS

| CHANNEL | | | | | | | | DMX VALUES | FUNCTION |
|---------|------|------|------|------|-------|-------|-------|------------|--|
| 4 CH | 5 CH | 7 CH | 8 CH | 9 CH | 12 CH | 13 CH | 15 Ch | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 000-255 | RED 0% - 100% |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 000-255 | GREEN 0% - 100% |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 000-255 | BLUE 0% - 100% |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 000-255 | WHITE 0% - 100% |
| | 5 | | 5 | 5 | 5 | 5 | 5 | 000-255 | COLOR MACROS (See Macro Chart) |
| | | | | 6 | 6 | 6 | 6 | 000-255 | COLOR TEMPERATURE 2700K - 6500K |
| | | | | | | | | | SHUTTER & STROBE |
| | | | | | | | | 000-031 | Closed |
| | | | | | | | | 032-063 | Open |
| | | | | | | | | 064-095 | Strobing Slow-Fast |
| | | 5 | 6 | 7 | 7 | 7 | 7 | 096-127 | Open |
| | | | | | | | | 128-159 | Pulse Effect |
| | | | | | | | | 160-191 | Open |
| | | | | | | | | 192-223 | Random Strobing Slow-Fast |
| | | | | | | | | 224-255 | Open |
| | | 6 | 7 | 8 | 8 | 8 | 8 | 000-255 | MASTER DIMMER 0-100% |
| | | 7 | 8 | 9 | 9 | 9 | 9 | 000-255 | MASTER DIMMER FINE |
| | | | | | | | | | AUTO PROGRAMS |
| | | | | | | | | 000-010 | No Function |
| | | | | | | | | 011-020 | Auto Program 1 |
| | | | | | | | | 021-030 | Auto Program 2 |
| | | | | | | | | 031-040 | Auto Program 3 |
| | | | | | | | | 041-050 | Auto Program 4 |
| | | | | | | | | 051-060 | Auto Program 5 |
| | | | | | | | | 061-070 | Auto Program 6 |
| | | | | | | | | 071-080 | Auto Program 7 |
| | | | | | 10 | 10 | 10 | 081-090 | Auto Program 8 |
| | | | | | | | | 091-100 | Auto Program 9 |
| | | | | | | | | 101-110 | Auto Program 10 |
| | | | | | | | | 111-120 | Auto Program 11 |
| | | | | | | | | 121-130 | Auto Program 12 |
| | | | | | | | | 131-140 | Auto Program 13 |
| | | | | | | | | 141-150 | Auto Program 14 |
| | | | | | | | | 151-160 | Auto Program 15 |
| | | | | | | | | 161-170 | Auto Program 16 |
| | | | | | | | | 171-255 | No Function |
| | | | | | | | | | AUTO PROGRAM SPEED Slow-Fast |
| | | | | | | | | | AUTO PROGRAM FADE Less-More or Slow-Fast |

DMX TRAITS

| CHANNEL | | | | | | | | DMX VALUES | FUNCTION |
|---------|------|------|------|------|-------|-------|-------|------------|--------------------------|
| 4 CH | 5 CH | 7 CH | 8 CH | 9 CH | 12 CH | 13 CH | 15 Ch | | |
| | | | | | | | | | DIMMER MODES |
| | | | | | | | | 000-020 | Standard |
| | | | | | | | | 021-040 | Stage |
| | | | | | | | | 041-060 | TV |
| | | | | | | | | 061-080 | Architectural |
| | | | | | | | | 081-100 | Theatre |
| | | | | | | | | 101-120 | Stage 2 |
| | | | | | | | | | DIMMER DELAY TIME |
| | | | | | | | | 121 | 0.1 Sec. |
| | | | | | | | | 122 | 0.2 Sec. |
| | | | | | | | | 123 | 0.3 Sec. |
| | | | | | | | | 124 | 0.4 Sec. |
| | | | | | | | | 125 | 0.5 Sec. |
| | | | | | | | | 126 | 0.6 Sec. |
| | | | | | | 13 | 13 | 127 | 0.7 Sec. |
| | | | | | | | | 128 | 0.8 Sec. |
| | | | | | | | | 129 | 0.9 Sec. |
| | | | | | | | | 130 | 1.0 Sec. |
| | | | | | | | | 131 | 1.5 Sec. |
| | | | | | | | | 132 | 2.0 Sec. |
| | | | | | | | | 133 | 3.0 Sec. |
| | | | | | | | | 134 | 4.0 Sec. |
| | | | | | | | | 135 | 5.0 Sec. |
| | | | | | | | | 136 | 6.0 Sec. |
| | | | | | | | | 137 | 7.0 Sec. |
| | | | | | | | | 138 | 8.0 Sec. |
| | | | | | | | | 139 | 9.0 Sec. |
| | | | | | | | | 140 | 10 Sec. |
| | | | | | | | | 141-255 | Default to Unit Setting |
| | | | | | | | | | REFRESH RATES |
| | | | | | | | | 000-015 | Default to Unit Setting |
| | | | | | | | | 016-030 | 900Hz |
| | | | | | | | | 031-045 | 1000Hz |
| | | | | | | | | 046-060 | 1100Hz |
| | | | | | | | | 061-075 | 1200Hz |
| | | | | | | | | 076-090 | 1300Hz |
| | | | | | | | | 091-105 | 1400Hz |
| | | | | | | | 14 | 106-120 | 1500Hz |
| | | | | | | | | 121-135 | 2500Hz |
| | | | | | | | | 136-150 | 4000Hz |
| | | | | | | | | 151-165 | 5000Hz |
| | | | | | | | | 166-180 | 10000Hz |
| | | | | | | | | 181-195 | 15000Hz |
| | | | | | | | | 196-210 | 20000Hz |
| | | | | | | | | 211-225 | 25000Hz |
| | | | | | | | | 226-255 | No Function |
| | | | | | | | | | GAMMA |
| | | | | | | | | 000-020 | Default to Unit Setting |
| | | | | | | | | 021-040 | 2.0 |
| | | | | | | | | 041-060 | 2.2 |
| | | | | | | | | 061-080 | 2.4 |
| | | | | | | | | 081-100 | 2.6 |
| | | | | | | | | 101-120 | 2.8 |
| | | | | | | | | 121-255 | No Function |

COLOR MACRO CHART

| Color | DMX Value | RGBW COLOR INTENSITY | | | | Color | DMX Value | RGBW COLOR INTENSITY | | | |
|----------------|-----------|----------------------|-------|------|-----|----------------|-----------|----------------------|-------|------|-------|
| | | RED | GREEN | BLUE | W/A | | | RED | GREEN | BLUE | WHITE |
| Off | 0 | 0 | 0 | 0 | 0 | Color Macro 33 | 129-132 | 255 | 206 | 143 | 0 |
| Color Macro 1 | 1-4 | 80 | 255 | 234 | 80 | Color Macro 34 | 133-136 | 254 | 177 | 153 | 0 |
| Color Macro 2 | 5-8 | 80 | 255 | 164 | 80 | Color Macro 35 | 137-140 | 254 | 192 | 138 | 0 |
| Color Macro 3 | 9-12 | 77 | 255 | 112 | 77 | Color Macro 36 | 141-144 | 254 | 165 | 98 | 0 |
| Color Macro 4 | 13-16 | 117 | 255 | 83 | 83 | Color Macro 37 | 145-148 | 254 | 121 | 0 | 0 |
| Color Macro 5 | 17-20 | 160 | 255 | 77 | 77 | Color Macro 38 | 149-152 | 176 | 17 | 0 | 0 |
| Color Macro 6 | 21-24 | 223 | 255 | 83 | 83 | Color Macro 39 | 153-156 | 96 | 0 | 11 | 0 |
| Color Macro 7 | 25-28 | 255 | 243 | 77 | 77 | Color Macro 40 | 157-160 | 234 | 139 | 171 | 0 |
| Color Macro 8 | 29-32 | 255 | 200 | 74 | 74 | Color Macro 41 | 161-164 | 224 | 5 | 97 | 0 |
| Color Macro 9 | 33-36 | 255 | 166 | 77 | 77 | Color Macro 42 | 165-168 | 175 | 77 | 173 | 0 |
| Color Macro 10 | 37-40 | 255 | 125 | 74 | 74 | Color Macro 43 | 169-172 | 119 | 130 | 199 | 0 |
| Color Macro 11 | 41-44 | 255 | 97 | 77 | 71 | Color Macro 44 | 173-176 | 147 | 164 | 212 | 0 |
| Color Macro 12 | 45-48 | 255 | 74 | 77 | 71 | Color Macro 45 | 177-180 | 88 | 2 | 163 | 0 |
| Color Macro 13 | 49-52 | 255 | 83 | 134 | 83 | Color Macro 46 | 181-184 | 0 | 38 | 86 | 0 |
| Color Macro 14 | 53-56 | 255 | 93 | 182 | 93 | Color Macro 47 | 185-188 | 0 | 142 | 208 | 0 |
| Color Macro 15 | 57-60 | 255 | 96 | 236 | 96 | Color Macro 48 | 189-192 | 52 | 148 | 209 | 0 |
| Color Macro 16 | 61-64 | 238 | 93 | 255 | 93 | Color Macro 49 | 193-196 | 1 | 134 | 204 | 0 |
| Color Macro 17 | 65-68 | 163 | 87 | 255 | 87 | Color Macro 50 | 197-200 | 0 | 145 | 212 | 0 |
| Color Macro 18 | 69-72 | 150 | 90 | 255 | 90 | Color Macro 51 | 201-204 | 0 | 121 | 192 | 0 |
| Color Macro 19 | 73-76 | 100 | 77 | 255 | 77 | Color Macro 52 | 205-208 | 0 | 129 | 184 | 0 |
| Color Macro 20 | 77-80 | 77 | 100 | 255 | 77 | Color Macro 53 | 209-212 | 0 | 83 | 115 | 0 |
| Color Macro 21 | 81-84 | 67 | 148 | 255 | 67 | Color Macro 54 | 213-216 | 0 | 97 | 166 | 0 |
| Color Macro 22 | 85-88 | 77 | 195 | 255 | 77 | Color Macro 55 | 217-220 | 1 | 100 | 167 | 0 |
| Color Macro 23 | 89-92 | 77 | 234 | 255 | 77 | Color Macro 56 | 221-224 | 0 | 40 | 86 | 0 |
| Color Macro 24 | 93-96 | 158 | 255 | 144 | 144 | Color Macro 57 | 225-228 | 209 | 219 | 182 | 0 |
| Color Macro 25 | 97-100 | 255 | 251 | 153 | 153 | Color Macro 58 | 229-232 | 42 | 165 | 85 | 0 |
| Color Macro 26 | 101-104 | 255 | 175 | 147 | 147 | Color Macro 59 | 233-236 | 0 | 46 | 35 | 0 |
| Color Macro 27 | 105-108 | 255 | 138 | 186 | 138 | Color Macro 60 | 237-240 | 8 | 107 | 222 | 0 |
| Color Macro 28 | 109-112 | 255 | 147 | 251 | 147 | Color Macro 61 | 241-244 | 255 | 0 | 0 | 0 |
| Color Macro 29 | 113-116 | 151 | 135 | 255 | 138 | Color Macro 62 | 245-248 | 0 | 255 | 0 | 0 |
| Color Macro 30 | 117-120 | 99 | 0 | 255 | 100 | Color Macro 63 | 249-252 | 0 | 0 | 255 | 0 |
| Color Macro 31 | 121-124 | 138 | 169 | 255 | 138 | Color Macro 64 | 253-255 | 0 | 0 | 0 | 255 |
| Color Macro 32 | 128-128 | 255 | 255 | 255 | 255 | | | | | | |

CLEANING, MAINTENANCE, & TROUBLESHOOTING

WARNING! DISCONNECT UNIT FROM POWER BEFORE PERFORMING ANY CLEANING OR MAINTENANCE PROCEDURES!

ALWAYS ALLOW THE FIXTURE TO COOL FOR AT LEAST 15 MINUTES BEFORE PERFORMING ANY CLEANING OR MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean periodically with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from an authorized ADJ dealer.

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments.

TROUBLESHOOTING

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

Unit not responding to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

Unit does not respond to sound:

1. Quiet or high pitched sounds will not activate the unit.
2. Make sure that Sound mode is activated.

SPECIFICATIONS

Light Source:

- 7x 8-Watt RGBW (4-IN-1 – Red, Green, Blue & White) LEDs
- 50,000 Hour Average LED Life

Features:

- Compact, black gloss metal housing
- Includes 3 frost filters to change beam angle: 20-degree, 40-degree or 60-degree
- Scissor yoke included

Output:

- Total Lumens: >2500
- LUX: 2952 @ 3M (9.8 ft.)
- Beam angle: 17-degrees

Connections:

- Power: Twist locking power input and output
- DMX: 3-pin & 5-pin In/Out
- With Wired Digital Communication Network

Control:

- UC IR wireless remote included
- 8 DMX Channel Modes: 4, 5, 7, 8, 9, 12, 13 or 15
- 64 built-in Color Macros
- 5 operational modes
- 4-button control menu with display
- Electronic Dimming: 0-100%
- Variable strobe control
- 6 dimming curve modes
- Adjustable LED Refresh Rate and Gamma Control

Electrical:

- Input Voltage: 100-240V 50Hz/60Hz (Auto Sensing)
- Max Power Draw: 57W
- Locking power in/out to daisy chain up to: 7 Fixtures Max@ 120V, 12 Fixtures Max@ 240V

Dimensions/Weight:

- Dimensions (LxWxH): 7.75" x 7.4" x 8" / 197 x 187.8 x 203mm
- Weight: 4.3 lbs. / 1.95 kg.

What's in the Box (Included):

- UC IR wireless remote
- Power Cable
- Twist locking power output adapter (so you can make your own power linking cables)

Accessories (sold separately):

- Black metal Barn Doors

DIMENSIONS

Dimensions not to scale.

