



ADJ ENCORE FR50Z

User Manual

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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
10/19/2017	1	1.03	1/2/3/4 Ch.	Initial Release
06/26/2018	2	1.04	1/2/2-2/3/2-3/4 CH	Added additional DMX modes, Stage 2 dimmer curve, and 1.0 gamma correction
09/18/2020	3	1.06	No Change	
12/03/2021	4	N/C	No Change	Updated Dimensional Drawings, Specifications, and Operating Instructions
6/22/22	5	N/C	N/C	Updated Fan Functions & Dimmer Mode, Removed Gamma
08/30/22	6	N/C	No Change	Added RDM parameters & codes

CONTENTS

General Information	4
Limited Warranty (USA Only)	5
Safety Guidelines	6
Maintenance Guidelines	8
Fixture Overview	9
Installation Guidelines	10
DMX Setup	13
System Menu	14
Primary-Secondary Configuration	18
Multiple Unit Power Linking	18
Dimmer Modes Chart	19
DMX Traits: Channel Functions & Values	20
RDM Parameters & Codes	21
Specifications	22
Dimensional Drawings	23
FCC Statement	24

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.

BOX CONTENTS

Omega Brackets
1.83M locking power cable

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.

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

This device is a sophisticated piece of electronic equipment. To guarantee a 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 device due to the disregard of the information printed in this manual. Only the original included parts and/or accessories for this device should be used. Any modifications to the device, included and/or accessories will void the original manufactures 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 MANUFACTURE'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!
NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
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!**



**INDOOR / DRY LOCATIONS USE ONLY!
DO NOT EXPOSE FIXTURE TO RAIN AND MOISTURE!**



**MINIMUM DISTANCE TO OBJECTS/SURFACES
MUST BE 39.4 FEET (12 METERS)
MAXIMUM TEMP OF EXTERNAL SURFACE 194°F (90°C)
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS
FROM THE SURFACE 0.7 FEET (0.2 METER)**

SAFETY GUIDELINES

- **To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.**
- **Do not spill water or other liquids into or onto the unit.**
- **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 or fire in the event of an internal short.**
- **Disconnect from main power before making any type of connection.**
- **Do not remove the cover for any reason. There are no user serviceable parts inside.**
- **Never operate this unit with the cover removed.**
- **Never plug this unit into a dimmer pack.**
- **Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6-in. (15cm) between this device and a wall.**
- **Do not attempt to operate this unit if it has been damaged in any way.**
- **This unit is intended for indoor use only. Use of this product outdoors voids all warranties.**
- **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 at which the cords exit from the unit.**
- **Cleaning - The fixture should be cleaned only as recommended by the manufacturer. See the Cleaning section of this manual for 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 fixture should be serviced by qualified service personnel when:**
 - A. The power-supply cord or the plug has 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 has been subjected to extreme handling.**

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

FUSE REPLACEMENT

Disconnect the unit from its power source. Remove the power cord from the unit. Once the cord has been removed, use a flat-head screw driver to unscrew the fuse holder. Remove the bad fuse and replace it with a new one.

TROUBLESHOOTING

Unit not responding to DMX:

- 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 direction the inputs and outputs are connected.

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 the external lens surface periodically with a soft cloth to avoid dirt/debris accumulation.

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

MAINTENANCE

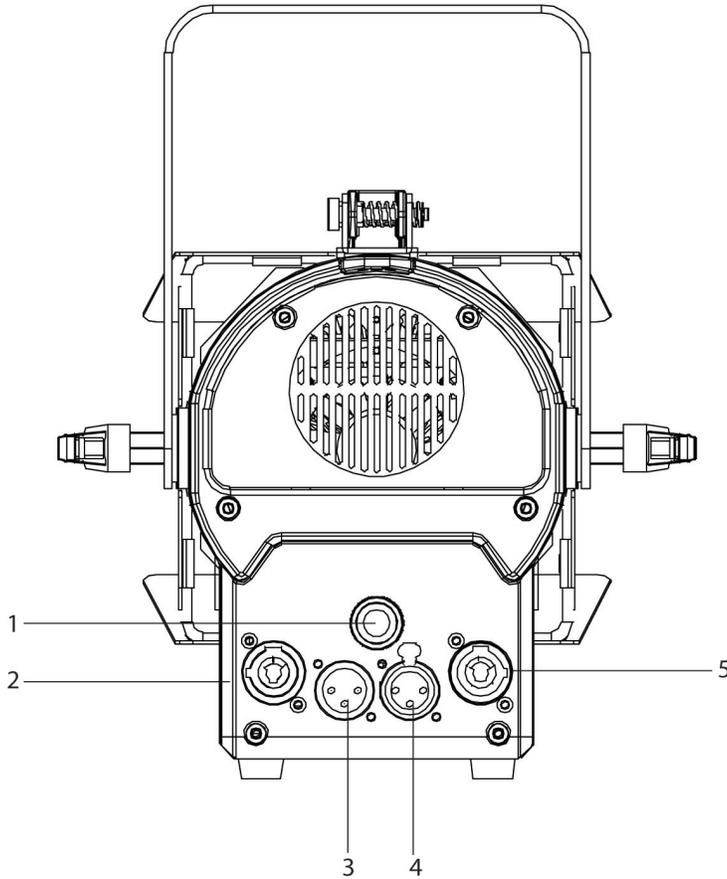
Regular inspections are recommended to ensure proper function and extended life.

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 your local ADJ dealer.

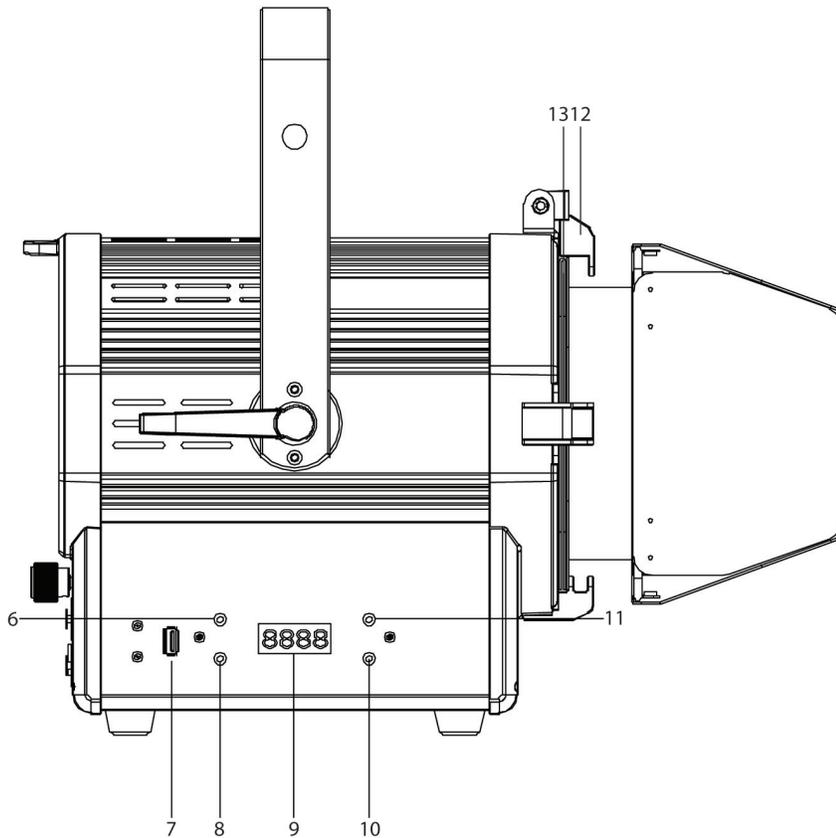
Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition in order to 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 or liquids to enter into the fixture. Damaged rigging points or unsecured rigging could cause fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.
- **NEVER** remove the ground prong from the power cable.

FIXTURE OVERVIEW



1. Zoom Adjustment Knob
2. Power In
3. 3-Pin DMX In
4. 3-Pin DMX Out
5. Power Out
6. Mode Button
7. USB Port
8. Enter Button
9. LCD Menu Control Display
10. Down Button
11. Up Button
12. Barn Door Secure Lock
13. Gel Frame



INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 0.7 feet (0.2m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



USE CAUTION WHEN POWER LINKING OTHER MODEL FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE. CHECK SILK SCREEN FOR MAX AMPS.



**MINIMUM DISTANCE TO OBJECTS/SURFACES
MUST BE 39.4 FEET (12 METERS)**



**MINIMUM DISTANCE OF INFLAMMABLE MATERIALS
FROM THE SURFACE 0.7 FEET (0.2 METER)**



MAXIMUM TEMPERATURE OF EXTERNAL SURFACE 185° F (85°C)

DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

Fixture ambient operating temperature range is **0° to 104°F. (0° to 40°C)**.

Do not Use fixture under or above this temperature.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand.

NEVER stand directly below the fixture(s) when rigging, removing or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Allow approximately 15 minutes for the fixture to cool down before servicing.

RIGGING

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



ALWAYS ATTACH AN APPROPRIATELY RATED SAFETY CABLE (NOT INCLUDED) THAT MEETS ALL LOCAL, NATIONAL, AND COUNTRY CODES AND REGULATIONS WHENEVER INSTALLING FIXTURE IN A SUSPENDED ENVIRONMENT!

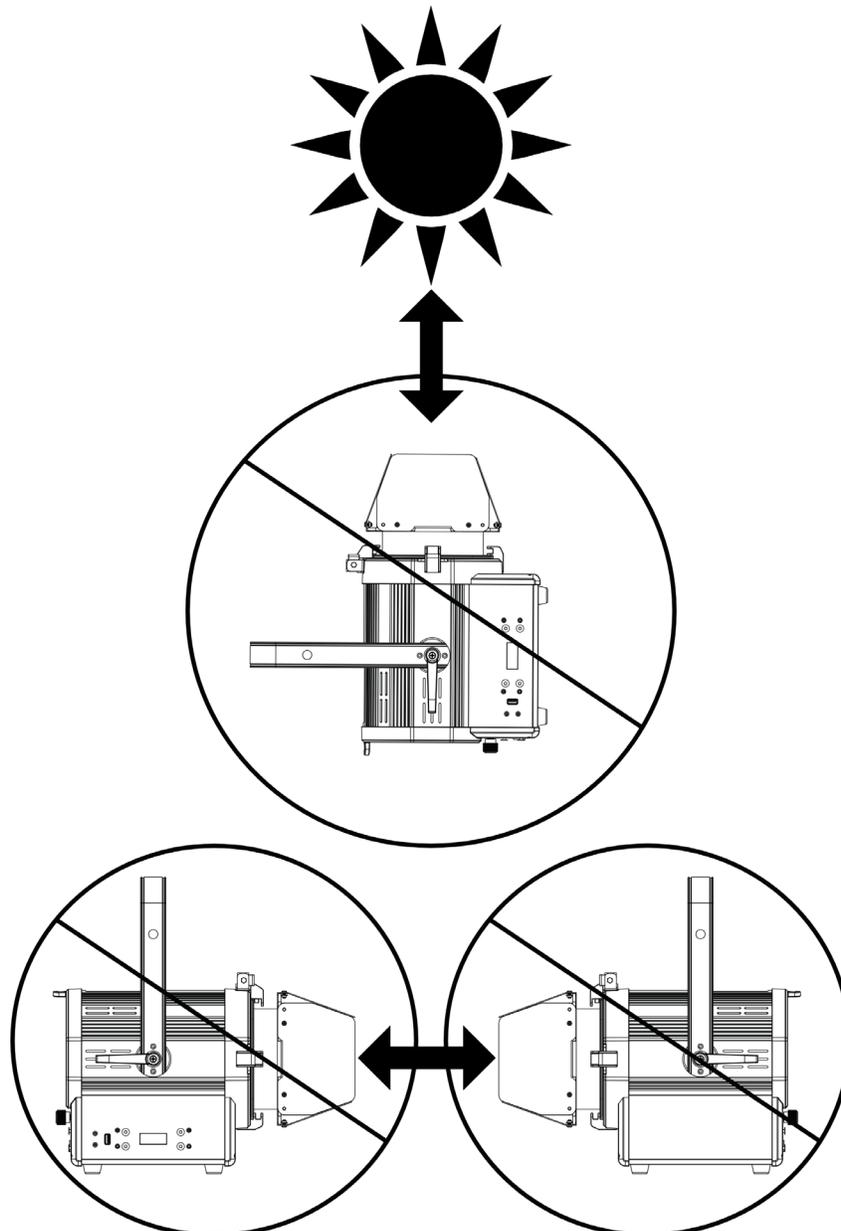
INSTALLATION GUIDELINES

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 to optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

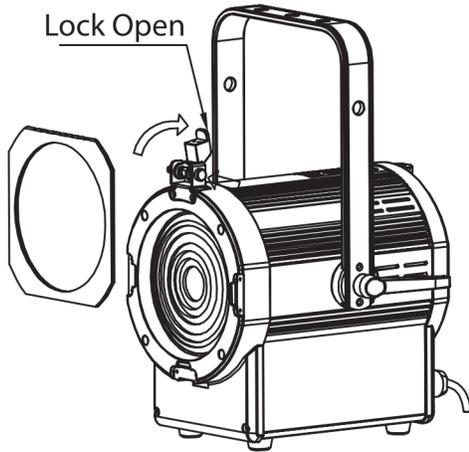
This issue is not specific to ADJ lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the following guidelines can prevent any potential damage from occurring if followed. Contact ADJ Service 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 WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.

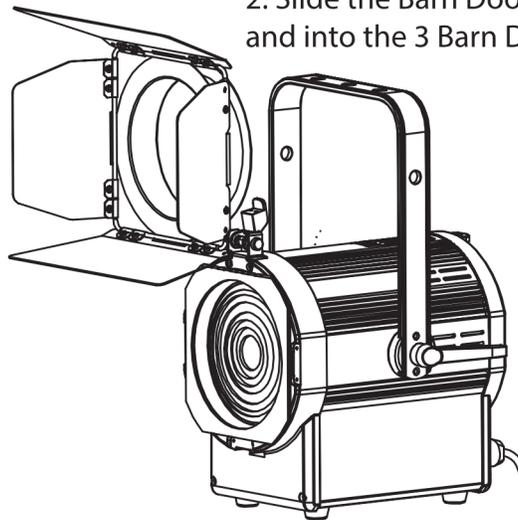


INSTALLATION GUIDELINES - BARN DOORS

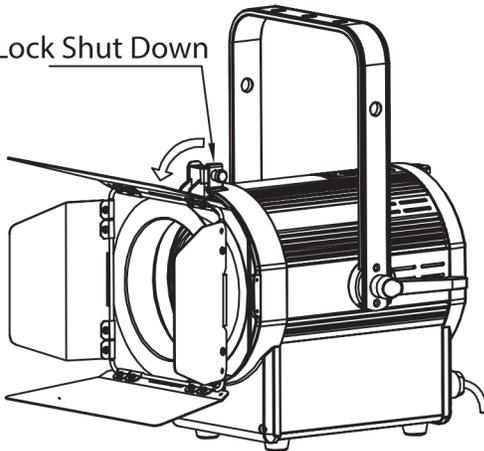
1. Slide the Gel Frame in from the top and into the 3 Grooves located closest to the unit.



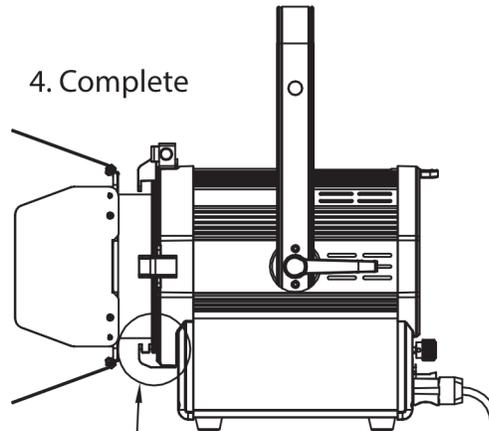
2. Slide the Barn Door in from the top and into the 3 Barn Door Grooves



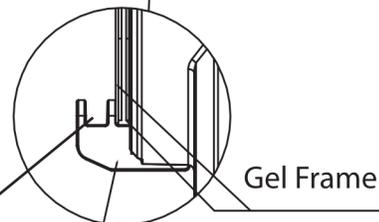
3. Lock Shut Down



4. Complete



Barn Door Slides into the 3 Grooves
Two on the side, one on the bottom



Enlarged View

DMX SETUP

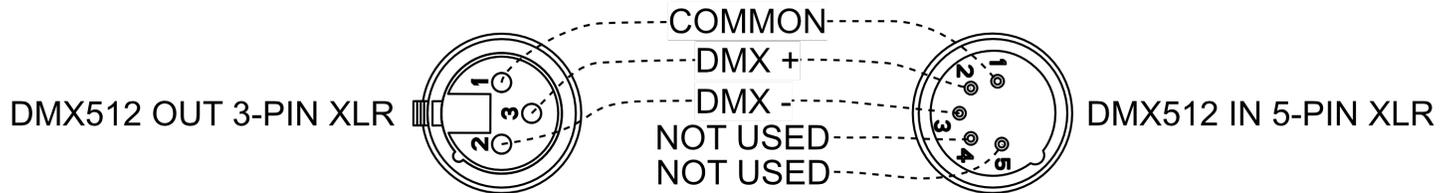
DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture 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 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.

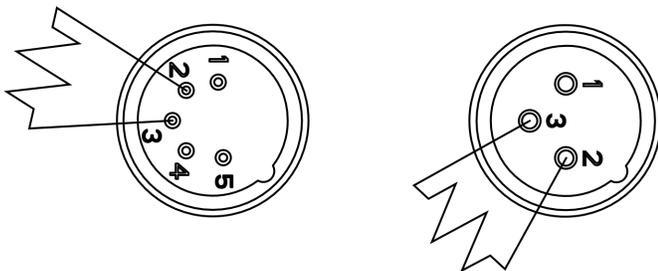
Data Cable (DMX Cable) Requirements (For DMX Operation): The Focus Flex can be controlled via DMX-512 protocol. Your unit and your DMX controller requires a 5-pin XLR connector for data input/output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 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 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.



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



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.

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.

SYSTEM MENU

Default setting shown in bold			
Supports Software Versions: 1.5			
MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)		DESCRIPTION
Set ADDR	SEt ADDR 001	001-509	DMX Addressing
User Mode	1CH/ 2CH /2-2CH/3CH/2-3CH/4CH		DMX Channel Mode Selection
Function	NO DMX	Lost DMX	Black/ Hold
	LCD.Set	Display	ON/OFF
		Key Lock	ON/OFF/ON1
		Flash	ON/OFF
	Temp	Celcis/ Fahren	
	Dim Curve	Linear, Square , Inv. Squa, S. Curve	
	Dim Modes	Standard , Stage, TV, Architectural, Theatre, Stage 2	
	Fans	Auto , Low, High	
	Disp.Set	ADDR	
		Disp. CH	
Secondry			
USB Data Off	ON/OFF		
DFSE	ON/OFF		
Info	Time Info	Current	
		Total Tim	
		Last Clea	
		Timer Pin	
	TempInfo	Temp Info	
	Err.Info	TempErr	
	Model Inf	Encore FR50Z	
	Software	Vx.xx	
Manual	ManCtrl	Dimmer=XXX	
		Strobe=XXX	

SOFTWARE UPDATING

For latest software and updating instructions, please contact ADJ service

SYSTEM MENU

DMX Addressing: Operating through a DMX controller gives the user the freedom to create custom programs tailored to their own individual needs.

1. To run your fixture in DMX mode, press the UP or DOWN buttons until “Set ADDR” is displayed. Press the ENTER button and “Set ADDR XXX” will be displayed. “XXX” represents the currently selected address.
2. Use the UP or DOWN buttons to find your desired DMX address and press ENTER to save the address.
3. Please refer to the **DMX Traits** section of this manual for detailed information.
4. After you have chosen your desired DMX Channel mode (see below), plug in the fixture via the XLR connections to any standard DMX controller.

DMX Channel Mode: The Encore FR50z has 6 DMX channel modes. This submenu will allow you to choose the DMX mode with which the fixture will operate.

1. To select your desired DMX channel mode, press the MODE button until “UserMode” is displayed. Press the ENTER button and the currently selected DMX channel mode will be displayed.
2. Use the UP or DOWN buttons to find your desired DMX channel mode and press ENTER to save your selection.
3. Please refer to the **DMX Traits** section of this manual for detailed information.
4. After you have chosen your desired DMX Channel mode, plug in the fixture via the XLR connections to any standard DMX controller.

DMX State: This setting defines how the fixture will behave when the DMX signal is lost or interrupted. You can also set this as the operating mode you would like the unit to return to when it is powered up.

1. Plug the fixture in and press the UP or DOWN buttons until “Menu Function” is displayed. Press the ENTER button.
2. Use the UP or DOWN buttons to scroll to “NO DMX” and press ENTER. Use the UP or DOWN buttons to toggle between the two choices:
 - “Black” (Blackout) - If the DMX signal is lost or interrupted, the unit will automatically go into stand by mode.
 - “Hold” (Last State) - If the DMX signal is lost or interrupted, the fixture will stay in the most recently configured DMX set up.
3. Once you have found your desired mode, press ENTER to confirm. Press MODE to exit to the main menu.

LCD Set Up: In this submenu, you are able to adjust the settings for the LCD display. You can program the display to blackout after 30 seconds, lock the buttons, or make the display flash.

1. Plug the fixture in and press the UP or DOWN buttons until “Menu Function” is displayed. Press ENTER to select.
2. Press the UP or DOWN buttons to scroll to “LCD.Set” and press ENTER.
3. Use the UP or DOWN buttons to make your desired adjustments in each submenu. Press the ENTER button to move to the next adjustment submenu.
4. Press the MODE button to exit and return to the main menu.

NOTE: This fixture features two variations of the control panel lockout, as described below. These can be selected from the main system menu, by navigating to MENU Function > LCD Set > Key Lock.

- When Display sub menu is set to ON, the LCD display backlight will turn OFF after 30 seconds. At this point, the Control Panel buttons will lock, and the display will show Locked. To unlock, press and hold the MODE button for 5 seconds.
- When Display sub menu is set to ON1, the LCD display backlight will turn OFF after 30 seconds. At this point, the Control Panel will lock, and the display will show LOCKED****. To unlock, press UP, DOWN, UP, DOWN, ENTER, in that order. With each button press, one * will disappear from the display until the display unlocks.

SYSTEM MENU

Unit Temperature: With this function, you can switch the temperature display between Celsius or Fahrenheit.

1. Plug the fixture in and press the UP or DOWN buttons until “Menu Function” is displayed. Press the ENTER button.
2. Press the UP or DOWN buttons to scroll to “TEMP” and press ENTER.
3. Use the UP or DOWN buttons to switch between “Celsius” or “Fahren”.
4. Press ENTER to confirm your selection or press the MODE button to exit and return to the main menu.

Dimmer Curve Setting:

1. Plug the fixture in and press the UP or DOWN buttons until “Menu Function” is displayed. Press the ENTER button.
2. Use the UP or DOWN buttons to scroll to “DimCurve” and press ENTER.
3. There are 6 dimmer curve settings to choose from. Use the UP and DOWN buttons to scroll through the different dimmer curve setting. Please refer to the Dimmer Curve Chart section of this manual for detailed information on dimmer curves.
4. Press the MODE button to exit and return to the main menu.

Display Set Up: In this submenu, you are able to select what main display will show. In this submenu you are able to designate the unit as the “Secondary” in Primary-Secondary mode.

1. Plug the fixture in and press the UP or DOWN buttons until “Menu Function” is displayed. Press the ENTER button.
2. Press the UP or DOWN buttons to scroll to “Disp.Set” and press ENTER.
3. Use the UP or DOWN buttons to find you desired setting and press ENTER.
4. Press the MODE button to exit and return to the main menu.

Software Update (USB Data): This submenu is used for any future software updates. Check online at www.adj.com for any software updates. Download the software update to a flash stick and plug the flash stick into the Flash Drive slot located on the side of the unit.

NOTE: Contact ADJ customer service for help and guidance when updating software.

Default Running Mode: This is a default running mode. When this mode is activated all modes will return to their default settings.

1. Plug the fixture in and press the UP or DOWN buttons until “Menu Function” is displayed. Press ENTER.
2. Press the UP or DOWN buttons to scroll to “DFSE” and press ENTER.
3. Press the UP and DOWN buttons to switch between “ON” or “OFF”. To reset the unit to factory settings select “ON” and press ENTER. Press the MODE button to exit the submenu with no changes.

Time Information: In this submenu you are able to check the current running time, total running time, last time the running time was cleared, and clear the running time.

1. Plug the fixture in and press the UP or DOWN buttons until “Info” is displayed.
2. Press the ENTER button and press the UP or DOWN buttons until “TimeInfo” is displayed, and press ENTER.
3. Use the UP or DOWN buttons to find the time information you would like to check. Press the ENTER button to access your desired time information.
4. To clear the current running time, press UP or DOWN buttons until “TimerPin” is displayed, and press ENTER. Use the UP or DOWN buttons to enter in the password “050”, a press ENTER.
5. Use the UP or DOWN buttons to select “ON”, and press ENTER.
6. Unplug the fixture, then plug it back in. The current running time should now be cleared.
7. Press the MODE button to exit and return to the “Infor” menu. Press MODE again to exit and return to the main menu.

SYSTEM MENU

Temperature Information: In this submenu you are able to check the fixture's current running temperature.

1. Plug the fixture in and press the UP or DOWN buttons until "Info" is displayed.
2. Press the ENTER button and press the UP or DOWN buttons until "TempInfo" is displayed. Press ENTER.
3. Use the UP or DOWN buttons to find the time information you would like to check. Press the ENTER button to access your desired time information.

Software Information: In this submenu you are able to check the fixture's current software.

1. Plug the fixture in and press the UP or DOWN buttons until "Info" is displayed.
2. Press the ENTER button and press the UP or DOWN buttons until "Software" is displayed, then press ENTER.
3. The current software version will now be displayed. Press the MODE button to exit.

Manual Dimmer Mode:

1. Plug the fixture in and press the UP or DOWN buttons until "Menu Manual" is displayed, then press ENTER.
2. "ManCtrl Dimmer" will be displayed. Press the ENTER button to access the dimmer adjustment submenu.
3. Use the UP and DOWN buttons to adjust the dimmer intensity. When you are finished adjusting the intensity, press ENTER.
4. Press the UP or DOWN buttons to switch to "ManCtrl Strobe" and press ENTER. Follow the values listed under the "DMX Strobe" channel in the DMX Traits section of this manual.

PRIMARY-SECONDARY CONFIGURATION

This function allows the units to be linked together to run in a Primary-Secondary set-up. In this type of set up, one unit will act as the controlling unit, and the others will react to the controlling units built-in programs. Any unit can act as a Primary or as a Secondary, but only one unit can be programmed to act as the “Primary.”

Primary-Secondary Connections and Settings:

1. Daisy chain your units via the XLR connectors on the rear panel of each 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, and the last unit in the chain will use the male XLR connector only.
2. Connect the first “Secondary” unit to the “Primary.”
3. Set the “Primary” unit to your desired mode of operation.
4. On the “Secondary” units, press the UP or DOWN buttons until “Function” is displayed, and press ENTER. Press the UP or DOWN buttons until “Disp.Set” is displayed and press ENTER. Press the UP or DOWN buttons until “Secondary” is displayed and press ENTER.
5. The “Secondary” unit(s) will now follow the “Primary”.
6. To exit “Secondary” mode, press the MODE button.
7. To fully exit “Secondary” mode, you will need to follow steps 3 and 4 and set the display to “ADDR” and press ENTER.

MULTIPLE UNIT POWER LINKING

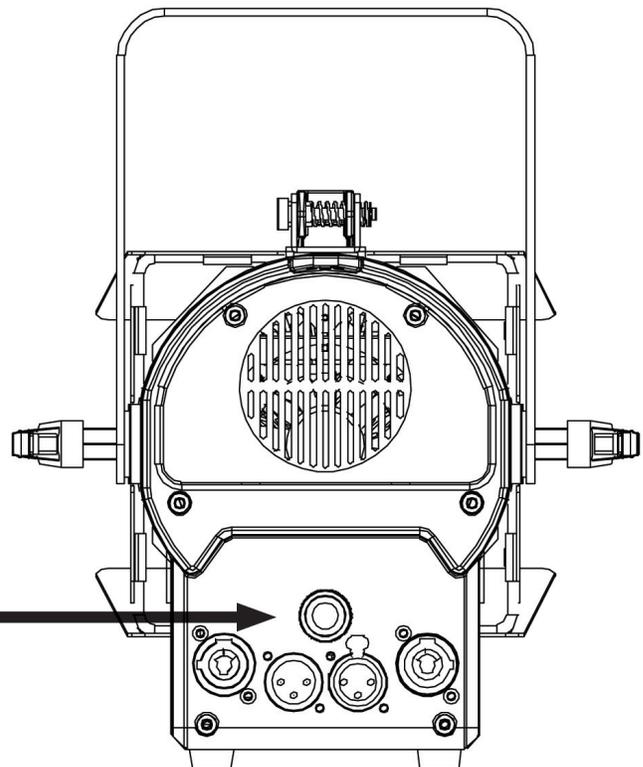
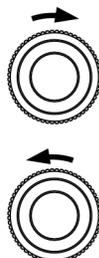
With this feature you can connect the fixtures using the Power input and output sockets. A maximum of 7 fixtures can be connected: (7x) @ 120V and 14 fixtures @ 240V. After the maximum connected fixtures, you will need to use a new power outlet.

NOTE: USE CAUTION WHEN POWER LINKING OTHER FIXTURES TO THE ENCORE FR15ZAS THE POWER CONSUMPTION OF OTHER LIGHTING FIXTURES WILL VARY!

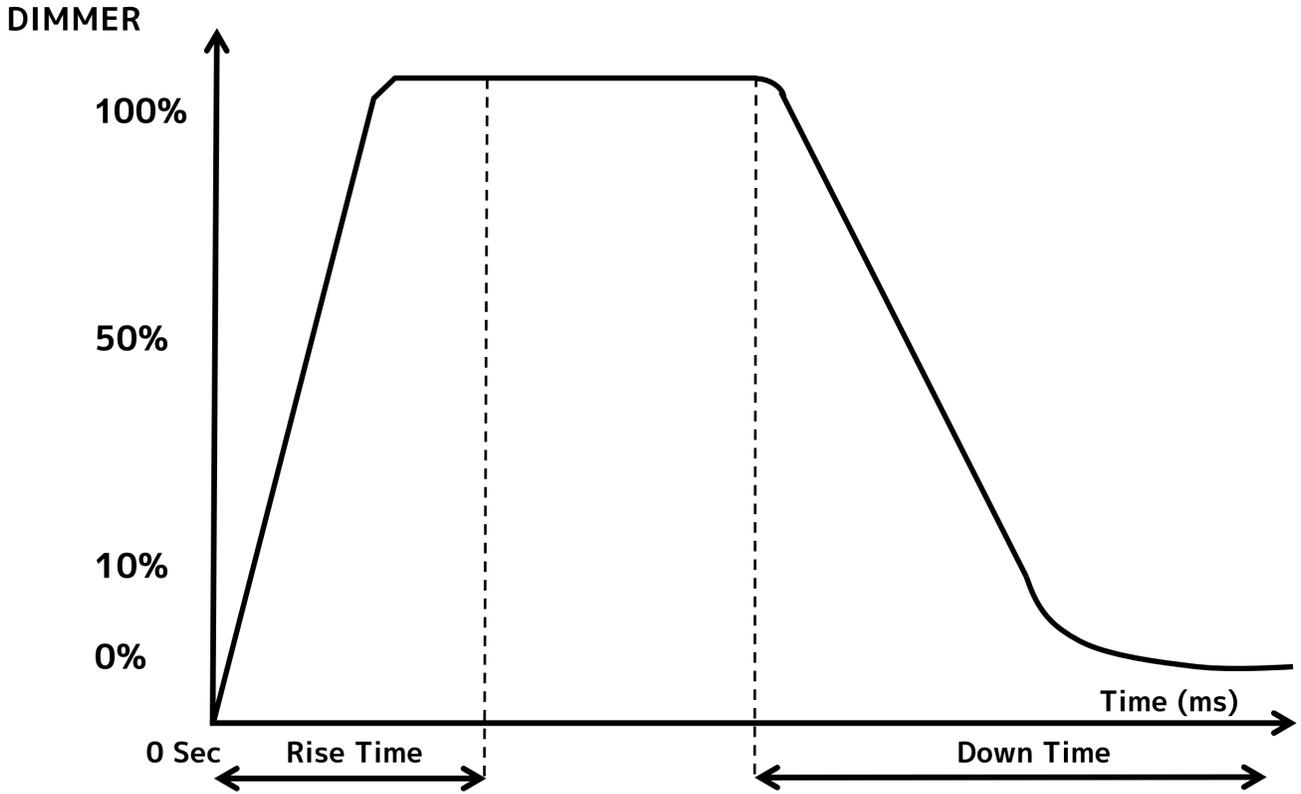
ZOOM ADJUSTMENT KNOB

Zoom Adjustment Knob:

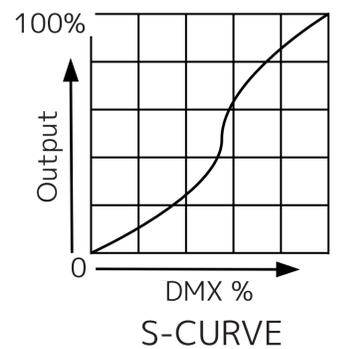
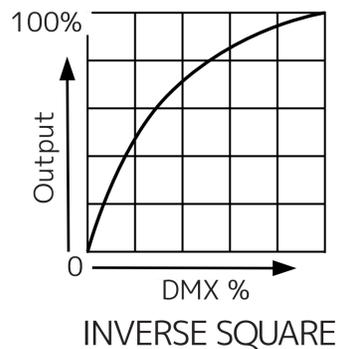
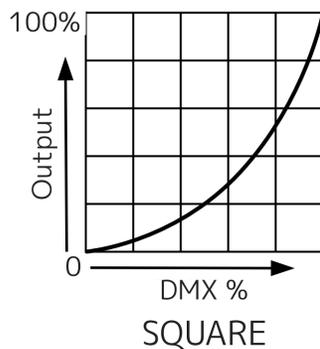
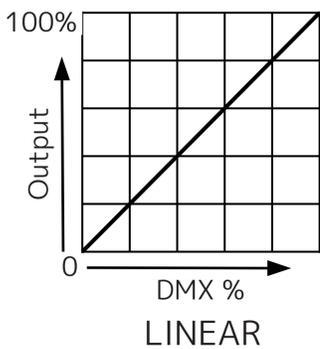
- Rotate knob right for narrow beam (clockwise)
- Rotate knob left for wider beam (counter-clockwise)



DIMMER MODES CHART



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



DMX TRAITS: CHANNEL FUNCTIONS & VALUES

CHANNEL						DMX VALUES	FUNCTION
1CH	2CH	2-2CH	3CH	2-3CH	4CH		
1	1	1	1	1	1	000 - 255	Master Dimmer
		2		2	2	000 - 255	Dimmer Fine
	2		2		3		Strobe
						000 - 031	Off
						032 - 063	On
						064 - 095	Variable Strobe, slow to fast
						096 - 127	On
						128 - 159	Pulse Effect, slow to fast
						160 - 191	On
						192 - 223	Random Strobe, slow to fast
						224 - 255	On
			3	3	4		Dim Mode
						000 - 020	Standard
						021 - 040	Stage
						041 - 060	TV
						061 - 080	Architectural
						081 - 100	Theatre
						101 - 120	Stage 2
						121 - 255	Default to unit setting

REMOTE DEVICE MANAGEMENT (RDM)

NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, and allows the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit’s display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

FIXTURE RDM INFORMATION:

Device ID	Device Model ID	RDM Code	Personality ID
90B5-FFFF	1905	0X1900	001 1CH (1) 002 2CH (2) 003 2-2CH (2) 004 3CH (3) 005 2-3CH (3) 006 4CH (4)

Please be aware that **not all RDM devices support all RDM features**, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

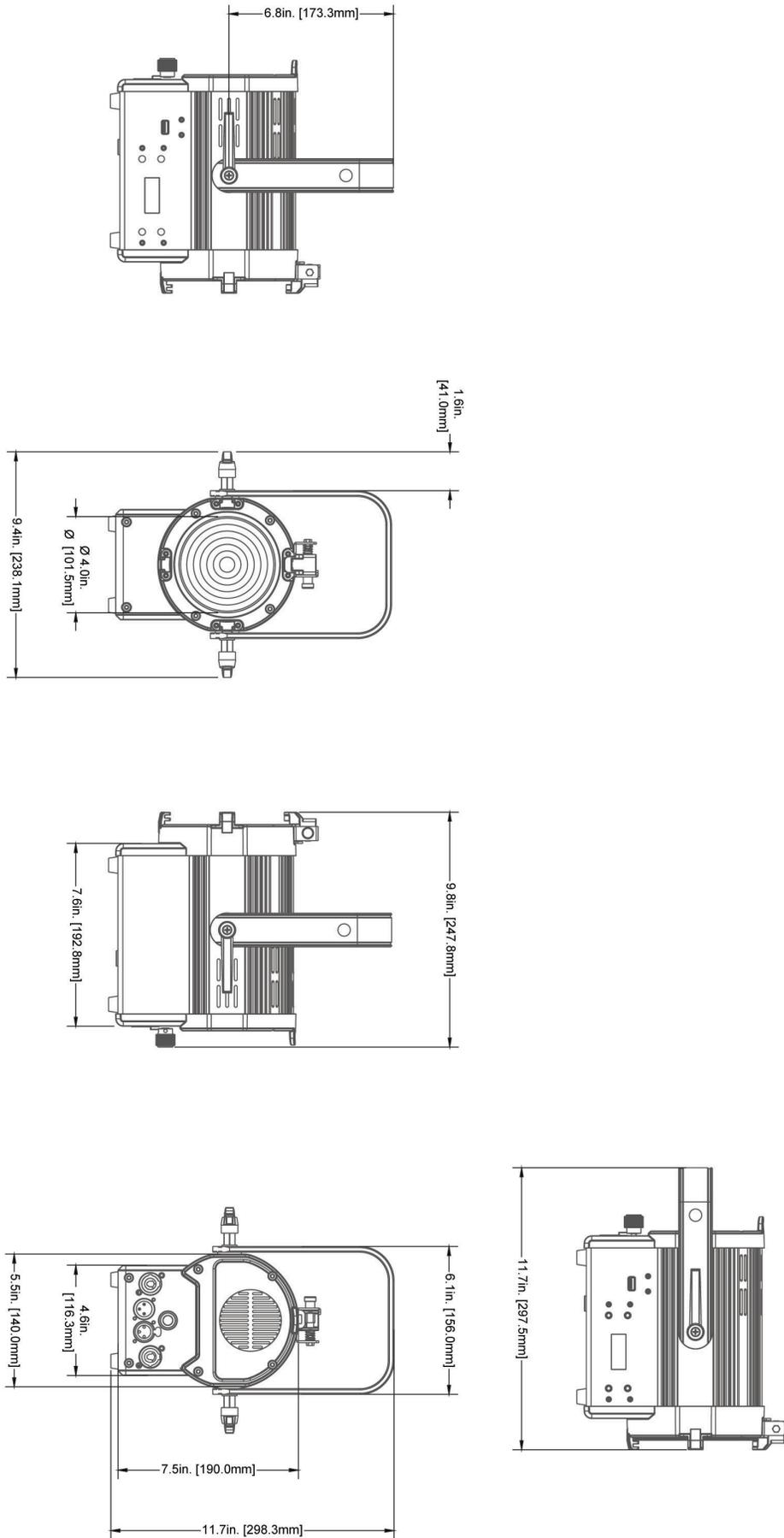
The following parameters are accessible in RDM on this device:

[0x0200] Sensor Definition
[0x0201] Sensor Value
[0x0080] Device Model Description
[0x0081] Manufacturer Label
[0x0082] Device Label
[0x00E0] DMX Personality
[0x00E1] DMX Personality Description
[0x0400] Device Hours

SPECIFICATIONS

- 50W LED engine
- 6-inch Fresnel lens
- CRI 95
- Color Temperature: 3000K
- Manual Zoom control: 14 ~ 30-degrees
- 4-button LCD menu
- 3-pin DMX In/out
- With Wired Digital Communication Network
- RDM (Remote Device Management)
- Locking Power In/Out connections to daisy chain power
- Dimming 0-100%
- Robust extruded aluminum case
- Includes barn doors
- Multi-voltage operation: AC 100-240V, 50/60Hz
- Dimensions (LxWxH) With Barn Door: 13.38" x 9.4" x 11.7" / 339.8mm x 238.1mm x 298.3mm.
- Dimensions (LxWxH) Without Barn Door: 9.8" x 9.4" x 11.7" / 247.8mm x 238.1mm x 298.3mm
- Weight With Barn Door: 9.5 lbs / 4.3 kgs
- Weight Without Barn Door: 8.5 lbs / 3.8 kgs
- cETLus approved (Control #4010765)

DIMENSIONAL DRAWINGS



FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

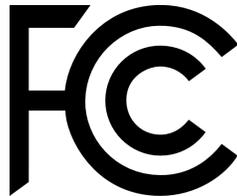
FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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!



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