JOLT PANEL FX2

User Manual

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ADJ PRODUCTS LLC World Headquarters
6122 S. Eastern Ave. I Los Angeles, CA 90040 USA
Tel: 800-322-6337 I www.adj.com Isupport@adj.com

ADJ Supply Europe B.V.
Junostraat 2 I 6468 EW Kerkrade I Netherlands
Tel: +31 45 546 85 00 I www.adj.eu I support@adj.eu

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
01/12/2024	1.0	1.0	6/9/13/16/18/36/41/51/81/126/141	Initial Release
12/09/2024	1.1	1.03	6/9/13/18/20/36/41/43/51/81/83/126/141/143	Updated System Menu, DMX Set Up, DMX Traits, Pixel Zones, Specifications
08/18/2025	1.2	N/C	No Change	Updated Daisy Chain Power Linking, Specifications
04/13/2026	1.3	N/C	No Change	Updated: General Info, Multi Unit Power Linking, Specifications

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GENERAL INFORMATION

INTRODUCTION

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

UNPACKING

This 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 appears to be damaged, carefully inspect the device for damage and be sure all accessories necessary to 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 at the number listed below. 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.

Parts: To purchase parts online visit:
http://parts.adj.com (US)
http://www.adjparts.eu (EU)

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
Voice: 800-322-6337 I support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
Voice: +31 45 546 85 60 I support@adj.eu

ADJ PRODUCTS LLC USA
6122 S. Eastern Ave. Los Angeles, CA. 90040
323-582-2650 I www.adj.com I info@adj.com

ADJ SUPPLY Europe B.V
Junostraat 2 6468 EW Kerkrade, The Netherlands
+31 (0)45 546 85 00 I www.adj.eu I info@adj.eu

ADJ PRODUCTS GROUP Mexico
AV Santa Ana 30 Parque Industrial Lerma, Lerma, Mexico 52000
+52 (728) 282-7070

LIMITED WARRANTY

For up-to-date warranty information regarding your device, please visit ADJ's warranty information page online or scan the QR codes below.

USA: https://www.adj.com/pages/warranty-information

EU: https://www.adj.eu/terms_and_conditions

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.

FEATURES

The ADJ Jolt Panel FX2 features a central strip of 112 x 5-Watt cool white SMD LEDs, surrounded on both sides by a total of 448 x .5-Watt RGB color mixing SMD LEDs. This allows the same fixture to generate intense white strobing as well as colored washes and strobe effects. Both types of LED are grouped into independently controllable zones (16 white and 32 color), which means the unit can also be used to generate strobe chases and other 'eye candy' effects.

- 40 x RGB LED zones
- 6 x Cool White LED zones
- 25 built-in RGB LED Program Macros
- 9 built-in Cool White LED Program Macros

INCLUDED ITEMS:

- 1x 6ft (1.83m) Indoor Power locking to Edison power cable (U.S.)
- 1x Frost Filter

OPTIONAL ITEMS:

- 180mm Omega Bracket
- JPFXBLKF (Black Filter)
- JPFXLINF (Linear Effect Filter)

IP RATING

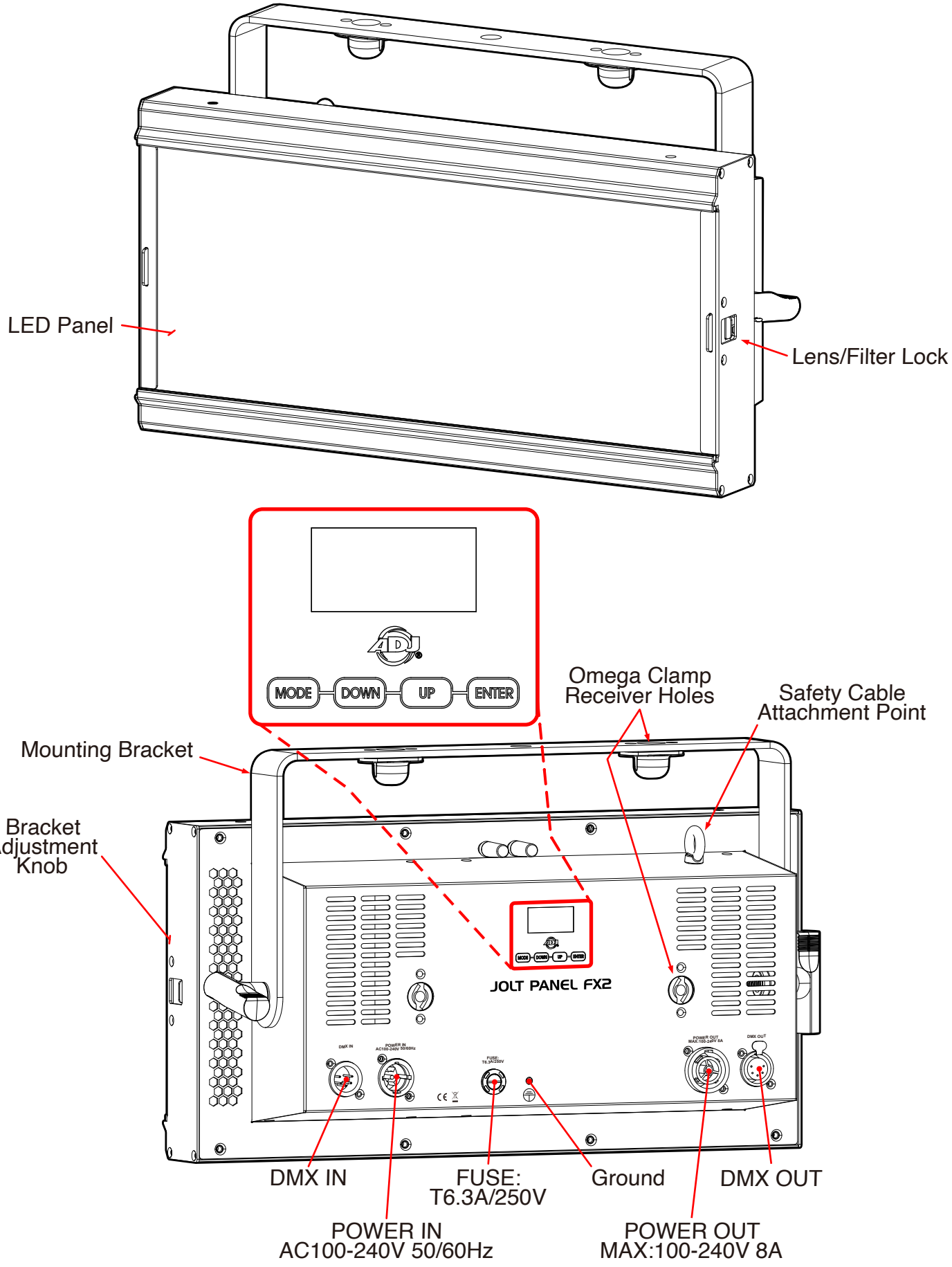
This device is IP20 rated. This means that the unit is protected against the instrusions of solids approximately the size of an adult finger (2.5mm) or larger, but **the unit is not protected against water or liquid intrusion of any kind.**

SAFETY GUIDELINES

THIS FIXTURE IS COMPOSED OF SOPHISTICATED ELECTRONIC COMPONENTS. 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. ONLY CERTIFIED PERSONNEL SHOULD PERFORM INSTALLATION OF THIS FIXTURE.

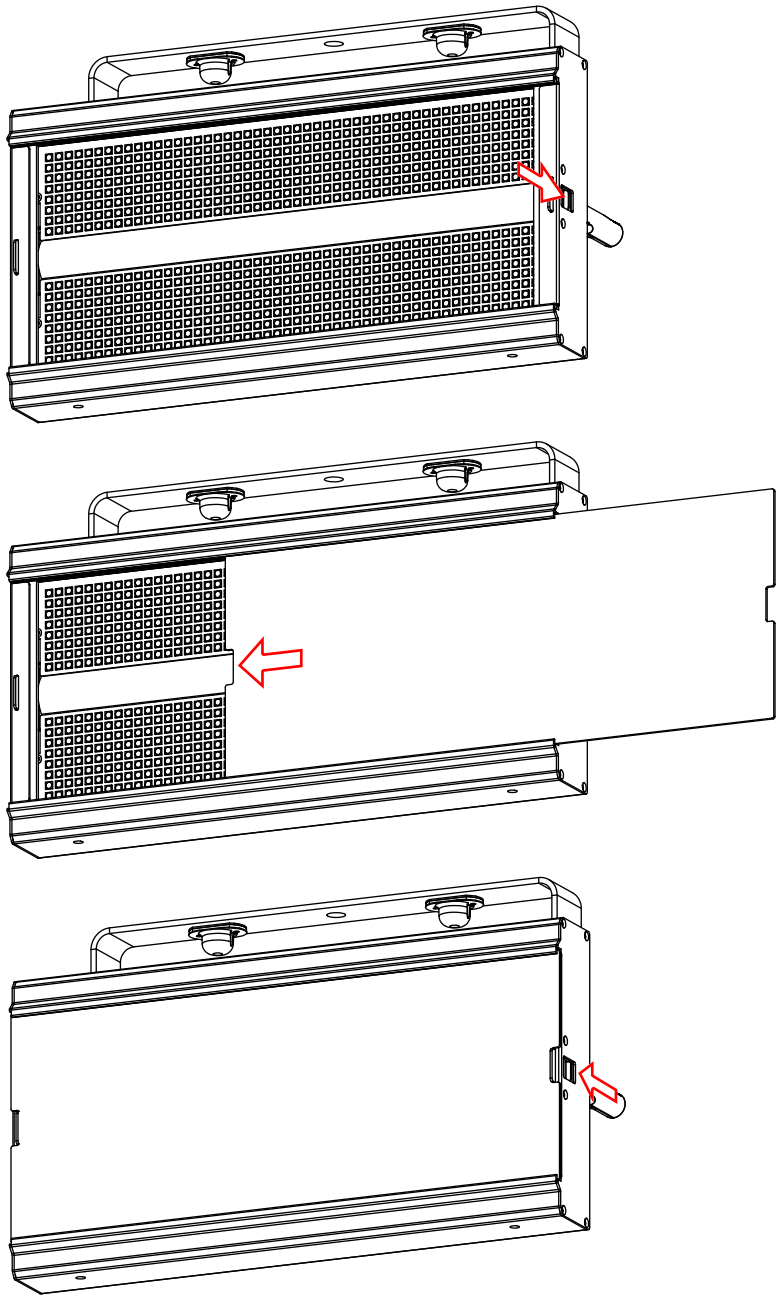
- PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.
- THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.
- DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND 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!
- 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 IS 6.6 FEET (2 METERS)
- MINIMUM DISTANCE TO FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER).
- DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 60 minutes for the fixture to cool down before serving.
- DO NOT shake fixture, and avoid brute force when installing and/or operating fixture.
- DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease. NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.
- 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.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.
- 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 associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure fixture will function properly for many years.
- Only use original packaging and materials to transport the fixture in for service.

OVERVIEW


LED Panel
Lens/Filter Lock
MODE
DOWN
UP
ENTER
Omega Clamp
Receiver Holes
Safety Cable
Attachment Point
Mounting Bracket
Bracket
Adjustment
Knob
JOLT PANEL FX2
DMX IN
FUSE:
T6.3A/250V
Ground
DMX OUT
POWER IN
AC100-240V 50/60Hz
POWER OUT
MAX:100-240V 8A

LENS INSTALLATION

Locate Frost Filter Lens Lock and press down to unlock it. Carefully slide Frost Filter Lens into the Lens Slots. Once in place, secure the Frost Filter Lens by pressing upwards to relock it.



INSTALLATION GUIDELINES

FLAMMABLE MATERIAL WARNING
Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.

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

MINIMUM DISTANCE TO OBJECTS/SURFACES IS 6.6 FEET (2 METERS).
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METERS).

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.
- Maximum ambient operating temperature is **113°F (45°C)**. Do not use fixture when ambient temperature exceeds this value.
- Fixture(s) should be installed outside walking paths, seating areas, or areas where unauthorized personnel might reach the fixture by hand.
- NEVER stand directly below the fixture(s) when rigging, removingm, or servicing.
- Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.
- Allow approximately 60 minutes for the fixture to cool down before servicing.

IP RATING

This device is IP20 rated. This means that the unit is protected against the intrusion of solids 2.5mm in size or larger (approximately the size of an adult finger tip). The unit is NOT protected against water or liquid intrusion of any kind!

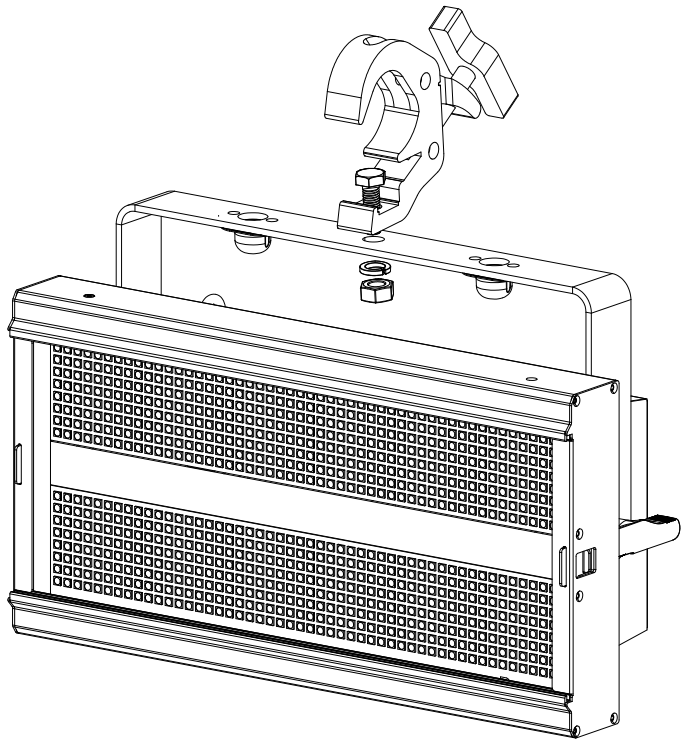
RIGGING

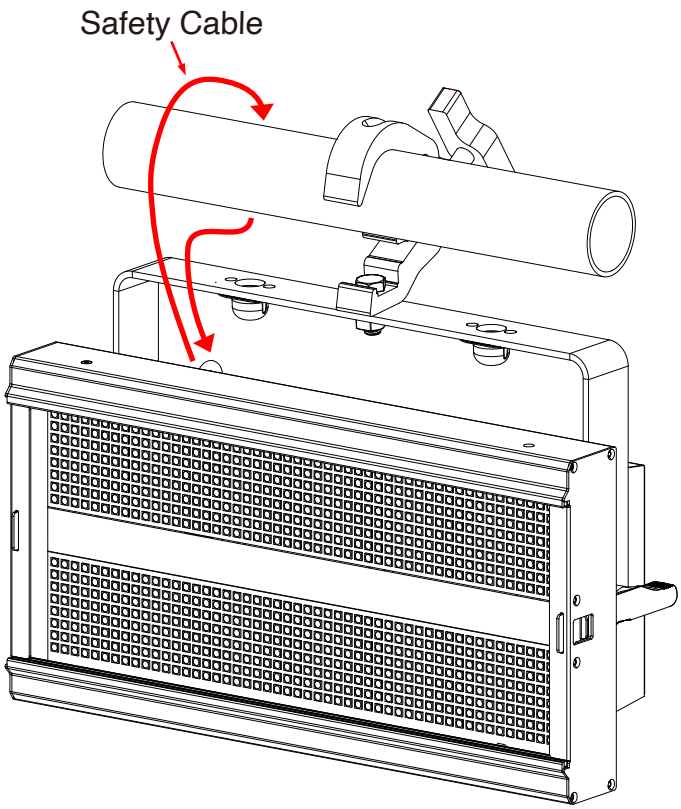
Overhead rigging requires extensive experience, including calculating working load limits, knowledge of installation material being used, and periodic safety inspection of all installation material and the fixture, among other skills. If you lack these qualifications, do not attempt the installation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

INSTALLATION GUIDELINES

CLAMP INSTALLATION

This fixture features an adjustable bracket for the attachment of a Mounting Clamp (not included). There is also a safety cable attachment point on the rear of the fixture. When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure appropriately rated clamp (not included) to the yoke, and attach a separate SAFETY CABLE of the appropriate weight rating to the safety cable attachment point.





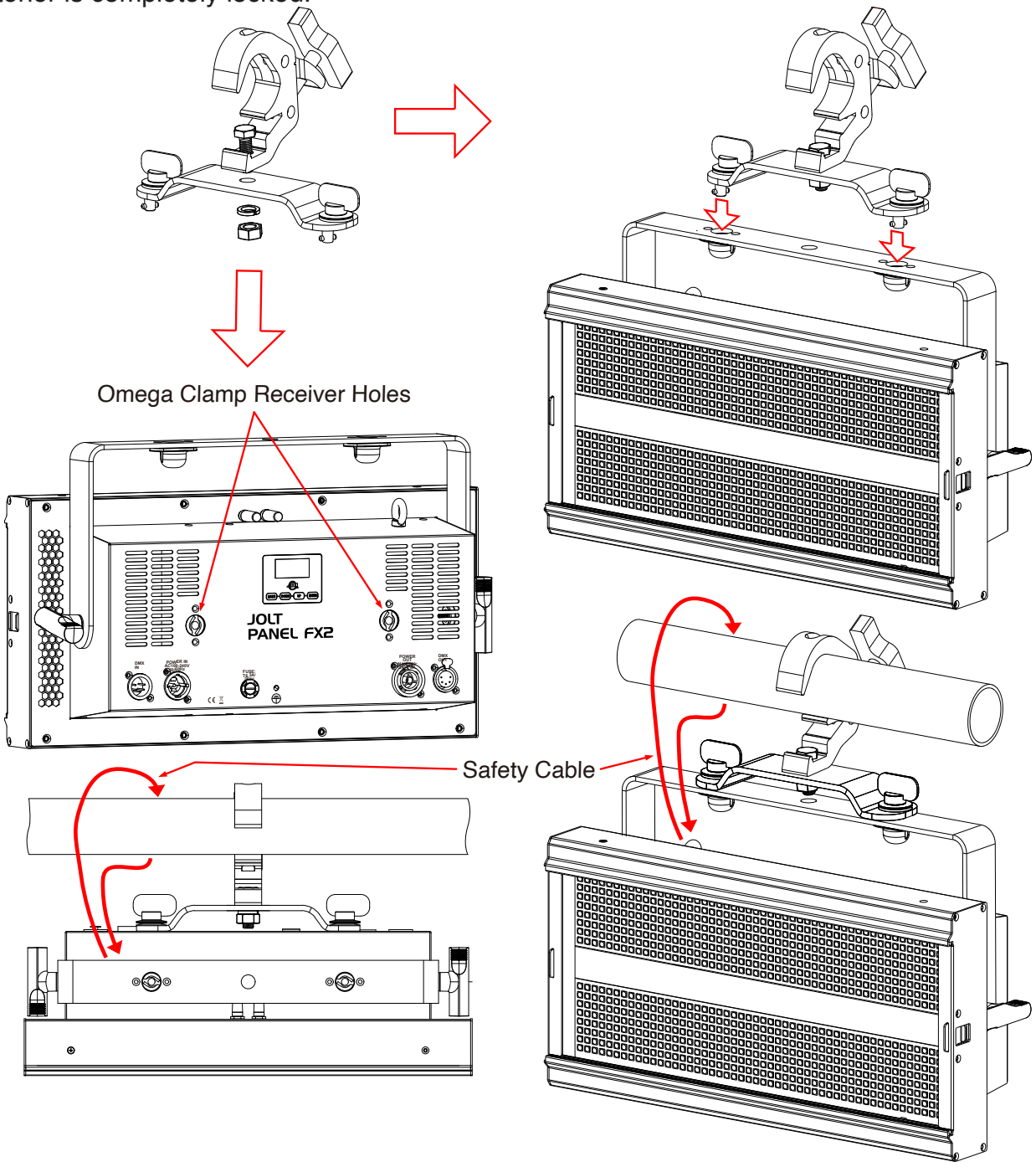
SAFETY CABLE:

ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMPS FAIL.

INSTALLATION GUIDELINES

OMEGA BRACKETS INSTALLATION

Secure the Mounting Clamp (not included) to the Omega Bracket (not included), then insert the Omega Bracket Assembly into the matching holes on either the Mounting Bracket, or the rear panel of the Fixture. Secure the Omega Bracket by turning each quick-lock fastener ¼ turn clockwise; making sure the fastener is completely locked.



SAFETY CABLE

ALWAYS ATTACH A SAFETY WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

CLAMP INSTALLATION

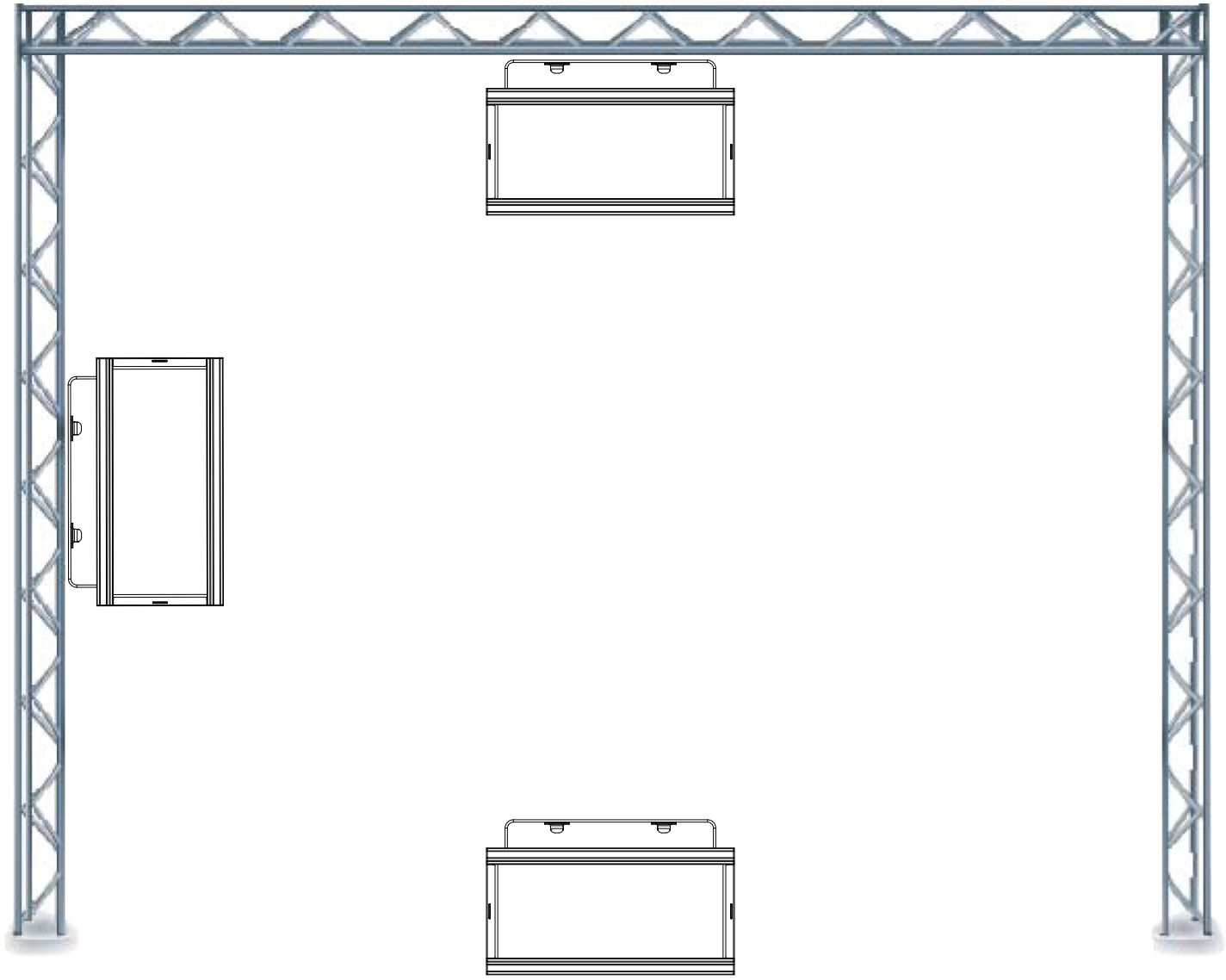
When mounting fixture to truss, be sure to secure an appropriately rated professional grade rigging clamp to the included **Omega Brackets** using an M10 screw fitted through the center hole of the **Omega Brackets**. The fixture provides built-in rigging points for a **SAFETY CABLE** (not included). Be sure to only use one of the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.

INSTALLATION GUIDELINES

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.

This fixture is designed to be mounted vertically (hanging or upright), or horizontally (perpendicular to vertical axis) only.



FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR LOCATION!

ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

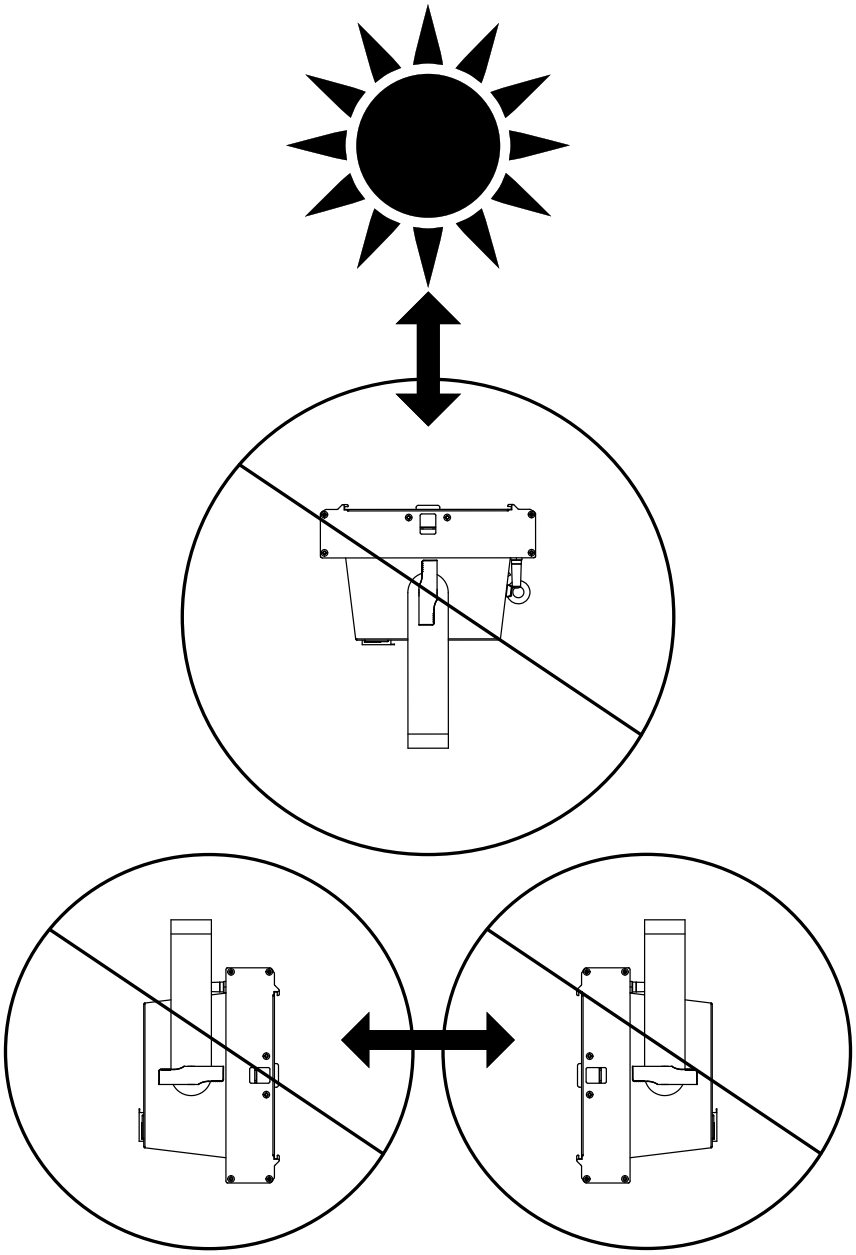
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting and moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of Elation 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 Elation lighting fixtures, but rather 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 reduce the risk of potential damage. Contact Elation Service for more details.

DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING OR 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.



FAN MODES and LOW NOISE OPERATION

The Jolt Panel FX2 is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera or Orchestra Halls, it offers various fan operation modes which remove any distraction for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper silent operation at a moment's notice. All Fan Modes smoothly transition over a brief time, preventing unwanted attraction to the fixture.

Auto (Default)—Fans only run at the speeds needed to keep the LED engine within a safe temperature range and ensures optimal performance of the fixture. If possible, they will turn-off, for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature, and will always try to keep noise levels to a minimum. The fixture output will only reduce when the LED engine cannot be cooled down to its safe operating range due to high ambient temperature.

NOTE: Recommended for daily operation.

High—Fan speeds are increased throughout for the most efficient cooling of the fixture. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even if the fixture is dimmed down. Fixture output is kept at 100% unless the LED engine temperature reaches an unsafe temperature at which point the fixture will reduce power carefully to ensure continued safe operation. This mode is only required in very high ambient temperatures when automatic fan speed adjustments are not desired.

Low Noise Modes

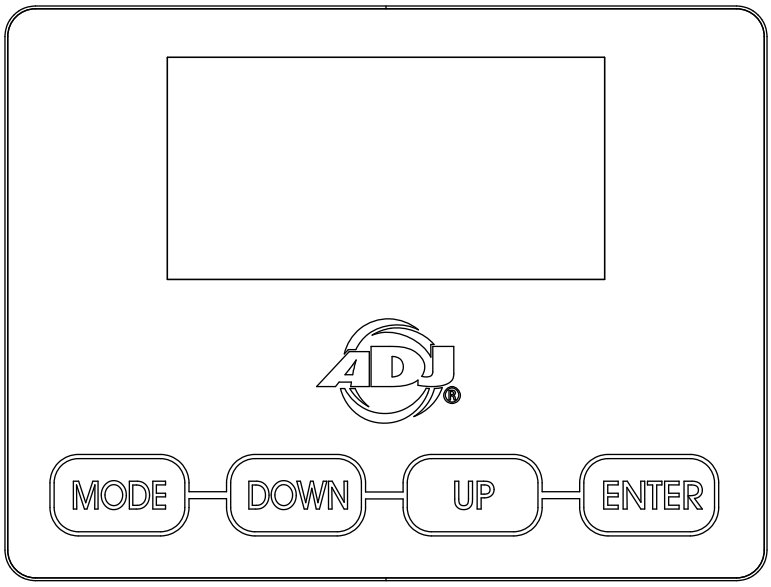
For very critical noise environments, the fixture offers two additional Low Noise Modes for silent operation. The fixture output will be reduced, yet due to the extremely high luminous flux, the fixture still offers outstanding performance. In Low Noise Modes, all parameters of the fixture operate more quietly with reduced fan speeds.

Silent—75-80% max output, fans run at low speed.

SYSTEM MENU

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made.

- **MENU**: Leave current menu and return to previous menu level.
- **UP**: Scroll up in currently displayed menu.
- **DOWN**: Scroll down in currently displayed menu.
- **ENTER**: Select an option or confirm a selection.



This fixture includes a display lock feature which automatically shuts off the display screen after a certain period of inactivity. This feature is OFF by default, which means that the display will always remain on regardless of inactivity, but can be configured to kick in after up to 10 minutes of inactivity. See the **System Menu** section of this manual for details on how to configure this setting.

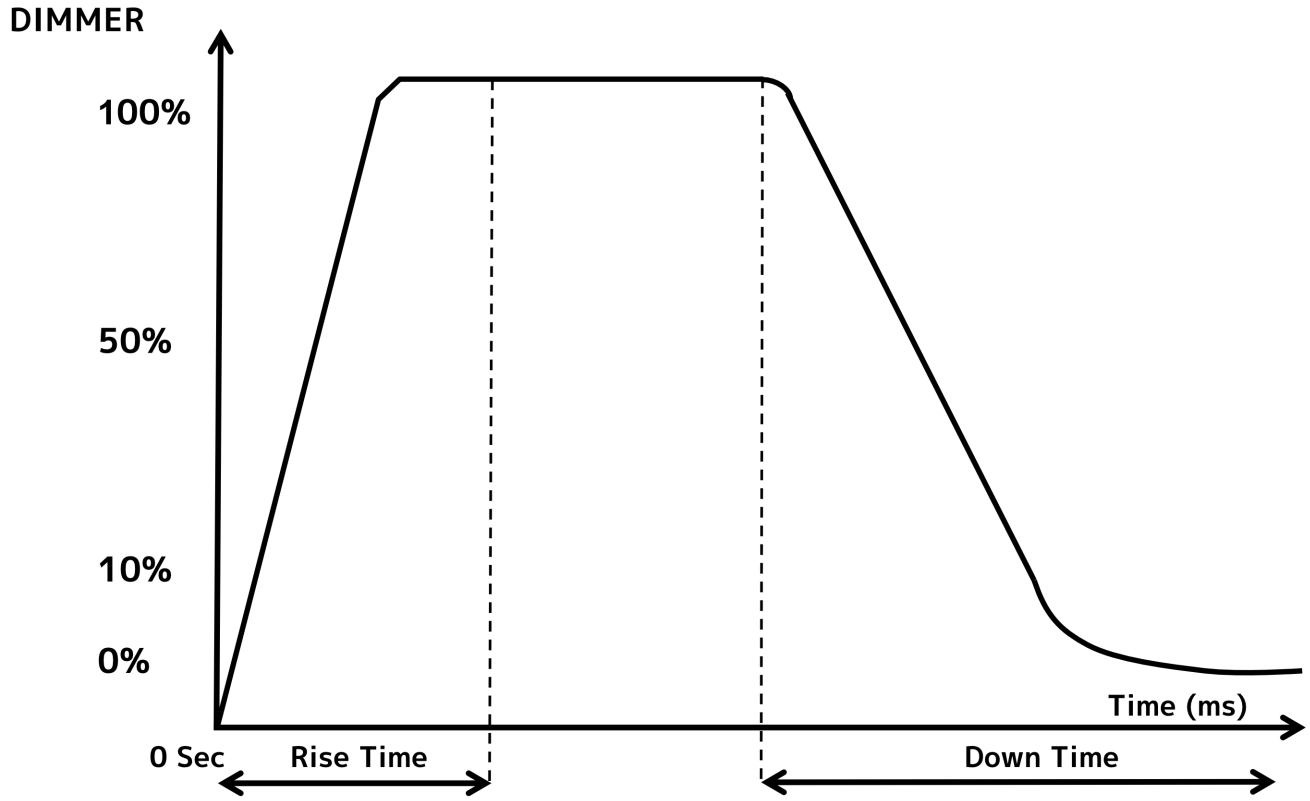
SYSTEM MENU

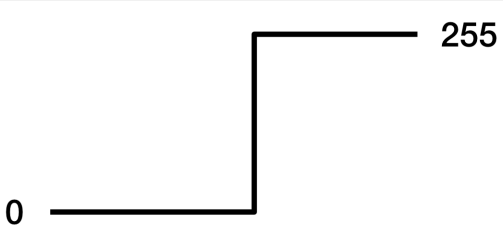
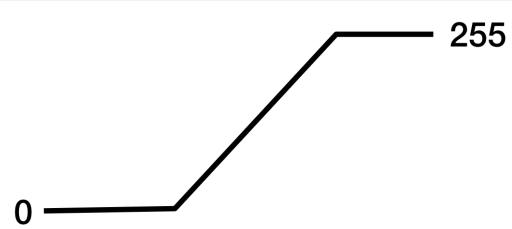
MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)			DESCRIPTION
DMX Settings	DMX Address	**001** - 512		
	DMX Mode	6CH, 9CH, 13CH, 16CH, **18CH**, 20Ch, 36CH, 41CH, 43CH, 51CH, 81CH, 83CH, 126CH, 141CH, 143CH		
	No DMX Status	**Hold Last**, Blackout, Manual		
Personality	Prim/Sec Mode	Primary, **Secondary**		
	Select Signal	**DMX** or Aria		
		Aria and DMX Out		
	Aria Settings	Aria Enable	**ON**/OFF	
		Set Aria Band	**2.4Ghz**	
			Subgig (US)	
			Subgig (EU)	
		Aria 2.4Ghz channel	**00** - 15	
		Aria Subgig channel	**00** - 09	
		Mesh	**ON** / OFF	
		RDM	**ON** / OFF	
		Bluetooth	**ON** / OFF	
	Fan Settings	**Auto**, High, Silent		
	Pixel Flip	On/**Off**		
	Dim Modes	**Standard**, Stage, TV, Architectural, Theatre, Stage 2		
		Dim Speed	0s-10s (Default = 0.1s)	
	Dim Cuirves	**Square**, Linear, Square Inverse, S-Curve		
	LED Refresh Rate	900Hz - 1500Hz (**1200Hz**), 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz,15KHz, 20KHz, 25KHz		
	LED Power Limit	50%, 60%, 70%, 80%, 90%, **100%**		
	Display	Screen Delay	Off, 10s - 5min (Default = **1 min**)	
		Screen Lock	**Off**, 10s - 5 min	
		Rotate Display	Yes / **No** / Auto	
	Temperature Unit	°C/**°F**	**°F**	
	Service	White Balance (Passcode = **011**)	Red1 000 - 255	
			Green1 000 - 255	
			Blue1 000 - 255	
			Red2 000 - 255	
			Green2 000 - 255	
			Blue2 000 - 255	
			…	
			Blue32 000 - 255	
		Factory Restore	Yes / **No**	

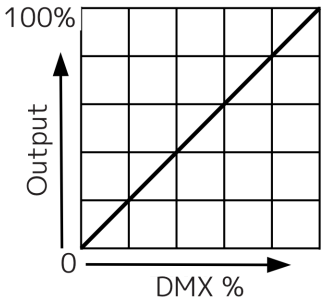
SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)		DESCRIPTION
Manual	Red	000-255	
	Green	000-255	
	Blue	000-255	
	White	000-255	
	CCT	000-255	
	Green Shift	000-255	
	RGB Shutter	000-**255**	
	RGBDimmer	000% - **100%**	
	White Shutter	000-**255**	
	Whited Dimmer	000% - **100%**	
	Self Test	All, Dimmer, Color	
Information	On Time	Current Run Time	
		Total Run Time	
		Last Run Time	
		Reset Last Run Time / Passcode = **050**	
	Temperature	Current Temp xxx°	
		Max Temp 1 xxx°	
		Max Temp 2 xxx°	
		TempRst. / YES / **NO**	
	DMX Values	Red	
		Green	
		...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
		Xxxxx / List Errors (Reset Passcode=**050)**	
		xxxxx	
		Reset Error Log / YES / **NO**	
	Software Version	1U : V1.01	
		2U1 : V1.01	
		2U2 : V1.01	

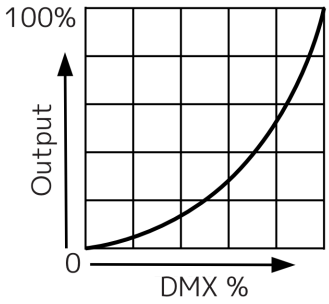
DIMMER MODES AND CURVES



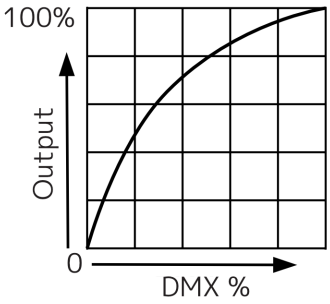
Dimming Curve Ramp Effect	0 sec Fade Time 		1 sec Fade Time 	
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660



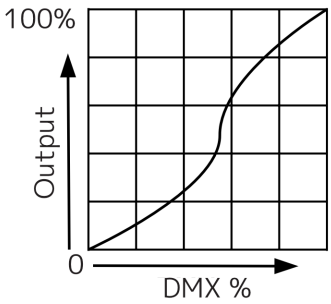
LINEAR



SQUARE



INVERSE SQUARE



S-CURVE

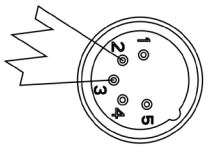
DMX SETUP

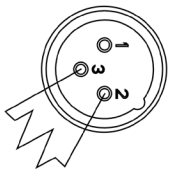
DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture 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 Jolt Panel FX can be controlled via DMX-512 protocol, and features multiple DMX channel modes. Your unit and your DMX controller require a 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 pro lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector on the other. Also remember that DMX cable must be daisy chained and cannot be split.

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.

DMX SETUP

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. 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 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 “listen” starting at 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.

As an example, when operating this device in 6 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 7 (1 + 6), the third unit to 13 (1 + 6 + 6), and so on. (See the chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
6 Channels	1	7	13	19
9 Channels	1	10	19	28
13 Channels	1	14	27	40
18 Channels	1	19	37	55
20 Channels	1	21	41	61
36 Channels	1	37	73	109
41 Channels	1	42	83	124
43 Channels	1	44	87	130
51 Channels	1	52	103	154
81 Channels	1	82	163	244
83 Channels	1	84	167	250
126 Channels	1	127	253	379
141 Channels	1	142	283	424
143 Channels	1	144	287	430

DMX TRAITS

CHANNEL														DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	20 CH	36 CH	41 CH	43 CH	51 CH	81 CH	83 CH	126 CH	141 CH	143 CH		
1	1	1	1	1										000-255	**Outer Red,** 0 to 100%
2	2	2	2	2										000-255	**Outer Green,** 0 to 100%
3	3	3	3	3										000-255	**Outer Blue,** 0 to 100%
4	4	4												000-255	**Inner White,** 0 to 100%
5	5	6												000-255	**Dimmer,** 0 to 100%
6	6	7												000-255	**Dimmer Fine,** 0 to 100%
															Strobe Effect
														000-002	Open
														003-005	Strobe
	7													006-050	Ramp up
														051-100	Ramp down
														101-150	Ramp up-down
														151-200	Lightning
														201-255	Random
	8														**Strobe Rate**
														000-255	Speed, slow to fast
	9														**Strobe Duration**
														000-255	Duration, slow to fast
					1	1	1	1	1	1	1	1	1	000-255	**Red 1**
					2	2	2	2	2	2	2	2	2	000-255	**Green 1**
					3	3	3	3	3	3	3	3	3	000-255	**Blue 1**
					4	4	4	4	4	4	4	4	4	000-255	**Red 2**
					5	5	5	5	5	5	5	5	5	000-255	**Green 2**
					6	6	6	6	6	6	6	6	6	000-255	**Blue 2**
					7	7	7	7	7	7	7	7	7	000-255	**Red 3**
					8	8	8	8	8	8	8	8	8	000-255	**Green 3**
					9	9	9	9	9	9	9	9	9	000-255	**Blue 3**
					10	10	10	10	10	10	10	10	10	000-255	**Red 4**
					11	11	11	11	11	11	11	11	11	000-255	**Green 4**
					12	12	12	12	12	12	12	12	12	000-255	**Blue 4**
					13	13	13	13	13	13	13	13	13	000-255	**Red 5**
					14	14	14	14	14	14	14	14	14	000-255	**Green 5**
					15	15	15	15	15	15	15	15	15	000-255	**Blue 5**
					16	16	16	16	16	16	16	16	16	000-255	**Red 6**
					17	17	17	17	17	17	17	17	17	000-255	**Green 6**
					18	18	18	18	18	18	18	18	18	000-255	**Blue 6**
					19	19	19	19	19	19	19	19	19	000-255	**Red 7**
					20	20	20	20	20	20	20	20	20	000-255	**Green 7**
					21	21	21	21	21	21	21	21	21	000-255	**Blue 7**
					22	22	22	22	22	22	22	22	22	000-255	**Red 8**
					23	23	23	23	23	23	23	23	23	000-255	**Green 8**
					24	24	24	24	24	24	24	24	24	000-255	**Blue 8**
								25	25	25	25	25	25	000-255	**Red 9**
								26	26	26	26	26	26	000-255	**Green 9**
								27	27	27	27	27	27	000-255	**Blue 9**
								28	28	28	28	28	28	000-255	**Red 10**
								29	29	29	29	29	29	000-255	**Green 10**
								30	30	30	30	30	30	000-255	**Blue 10**

DMX TRAITS

CHANNEL														DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	20 CH	36 CH	41 CH	43 CH	51 CH	81 CH	83 CH	126 CH	141 CH	143 CH		
									31	31	31	31	31	000-255	**Red 11**
									32	32	32	32	32	000-255	**Green 11**
									33	33	33	33	33	000-255	**Blue 11**
									34	34	34	34	34	000-255	**Red 12**
									35	35	35	35	35	000-255	**Green 12**
									36	36	36	36	36	000-255	**Blue 12**
									37	37	37	37	37	000-255	**Red 13**
									38	38	38	38	38	000-255	**Green 13**
									39	39	39	39	39	000-255	**Blue 13**
									40	40	40	40	40	000-255	**Red 14**
									41	41	41	41	41	000-255	**Green 14**
									42	42	42	42	42	000-255	**Blue 14**
									43	43	43	43	43	000-255	**Red 15**
									44	44	44	44	44	000-255	**Green 15**
									45	45	45	45	45	000-255	**Blue 15**
									46	46	46	46	46	000-255	**Red 16**
									47	47	47	47	47	000-255	**Green 16**
									48	48	48	48	48	000-255	**Blue 16**
									49	49	49	49	49	000-255	**Red 17**
									50	50	50	50	50	000-255	**Green 17**
									51	51	51	51	51	000-255	**Blue 17**
									52	52	52	52	52	000-255	**Red 18**
									53	53	53	53	53	000-255	**Green 18**
									54	54	54	54	54	000-255	**Blue 18**
									55	55	55	55	55	000-255	**Red 19**
									56	56	56	56	56	000-255	**Green 19**
									57	57	57	57	57	000-255	**Blue 19**
									58	58	58	58	58	000-255	**Red 20**
									59	59	59	59	59	000-255	**Green 20**
									60	60	60	60	60	000-255	**Blue 20**
											61	61	61	000-255	**Red 21**
											62	62	62	000-255	**Green 21**
											63	63	63	000-255	**Blue 21**
											64	64	64	000-255	**Red 22**
											65	65	65	000-255	**Green 22**
											66	66	66	000-255	**Blue 22**
											67	67	67	000-255	**Red 23**
											68	68	68	000-255	**Green 23**
											69	69	69	000-255	**Blue 23**
											70	70	70	000-255	**Red 24**
											71	71	71	000-255	**Green 24**
											72	72	72	000-255	**Blue 24**
											73	73	73	000-255	**Red 25**
											74	74	74	000-255	**Green 25**
											75	75	75	000-255	**Blue 25**

DMX TRAITS

CHANNEL														DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	20 CH	36 CH	41 CH	43 CH	51 CH	81 CH	83 CH	126 CH	141 CH	143 CH		
											76	76	76	000-255	**Red 26**
											77	77	77	000-255	**Green 26**
											78	78	78	000-255	**Blue 26**
											79	79	79	000-255	**Red 27**
											80	80	80	000-255	**Green 27**
											81	81	81	000-255	**Blue 27**
											82	82	82	000-255	**Red 28**
											83	83	83	000-255	**Green 28**
											84	84	84	000-255	**Blue 28**
											85	85	85	000-255	**Red 29**
											86	86	86	000-255	**Green 29**
											87	87	87	000-255	**Blue 29**
											88	88	88	000-255	**Red 30**
											89	89	89	000-255	**Green 30**
											90	90	90	000-255	**Blue 30**
											91	91	91	000-255	**Red 31**
											92	92	92	000-255	**Green 31**
											93	93	93	000-255	**Blue 31**
											94	94	94	000-255	**Red 32**
											95	95	95	000-255	**Green 32**
											96	96	96	000-255	**Blue 32**
											97	97	97	000-255	**Red 33**
											98	98	98	000-255	**Green 33**
											99	99	99	000-255	**Blue 33**
											100	100	100	000-255	**Red 34**
											101	101	101	000-255	**Green 34**
											102	102	102	000-255	**Blue 34**
											103	103	103	000-255	**Red 35**
											104	104	104	000-255	**Green 35**
											105	105	105	000-255	**Blue 35**
											106	106	106	000-255	**Red 36**
											107	107	107	000-255	**Green 36**
											108	108	108	000-255	**Blue 36**
											109	109	109	000-255	**Red 37**
											110	110	110	000-255	**Green 37**
											111	111	111	000-255	**Blue 37**
											112	112	112	000-255	**Red 38**
											113	113	113	000-255	**Green 38**
											114	114	114	000-255	**Blue 38**
											115	115	115	000-255	**Red 39**
											116	116	116	000-255	**Green 39**
											117	117	117	000-255	**Blue 39**
											118	118	118	000-255	**Red 40**
											119	119	119	000-255	**Green 40**
											120	120	120	000-255	**Blue 40**

DMX TRAITS

CHANNEL														DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	20 CH	36 CH	41 CH	43 CH	51 CH	81 CH	83 CH	126 CH	141 CH	143 CH		
															CT Presets
				4			25			61			121	000-022	Open
														023-089	CTO 2300K - 8900K
														090-255	9000K
				5			26			62			122	000-255	**Green Shift**
		5	4	6		25	27	31	61	63		121	123	000-255	**Outer Color Macros**
			5	7	25	26	28	32	62	64		122	124	000-255	**Outer Dimmer,** 0 to 100%
			6	8	26	27	29	33	63	65		123	125	000-255	**Outer Dimmer Fine,** 0 to 100%
															Outer Strobe Effect
														000-002	Open
														003-005	Strobe
		8	7	9	27	28	30	34	64	66		124	126	006-050	Ramp up
														051-100	Ramp down
														101-150	Ramp up-down
														151-200	Lightning
														201-255	Random
		9	8	10	28	29	31	35	65	67		125	127		**Outer Strobe Rate**
														000-255	Speed, slow to fast
		10	9	11	29	30	32	36	66	68		126	128		**Outer Strobe Duration**
														000-255	Duration, slow to fast
															Outer Program Macro
														000-005	No function
														006-015	Macro 1
														016-025	Macro 2
														026-035	Macro 3
														036-045	Macro 4
														046-055	Macro 5
														056-065	Macro 6
														066-075	Macro 7
		11	10	12		31	33	37	67	69		127	129	076-085	Macro 8
														086-095	Macro 9
														096-105	Macro 10
														106-115	Macro 11
														116-125	Macro 12
														126-135	Macro 13
														136-145	Macro 14
														146-155	Macro 15
														156-165	Macro 16
														166-175	Macro 17
														176-185	Macro 18
														186-195	Macro 19

DMX TRAITS

CHANNEL														DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	20 CH	36 CH	41 CH	43 CH	51 CH	81 CH	83 CH	126 CH	141 CH	143 CH		
															Outer Program Macro (continued)
														196-205	Macro 20
														206-215	Macro 21
		11	10	12		31	33	37	67	69		127	129	216-225	Macro 22
														226-235	Macro 23
														236-245	Macro 24
														246-255	Macro 25
			11	13		32	34	38	68	70		128	130	000-255	**Outer Program Macro Speed**
								39	69	71	121	129	131	000-255	**White 1**
								40	70	72	122	130	132	000-255	**White 2**
								41	71	73	123	131	133	000-255	**White 3**
								42	72	74	124	132	134	000-255	**White 4**
								43	73	75	125	133	135	000-255	**White 5**
								44	74	76	126	134	136	000-255	**White 6**
					30	33	35							000-255	**Inner White Group 1**
					31	34	36							000-255	**Inner White Group 2**
			12	14	32	35	37	45	75	77		135	137	000-255	**Inner Dimmer,** 0 to 100%
			13	15	33	36	38	46	76	78		136	138	000-255	**Inner Dimmer Fine,** 0 to 100%
															Inner Strobe Effect
														000-002	Open
														003-005	Strobe
			14	16	34	37	39	47	77	79		137	139	006-050	Ramp up
														051-100	Ramp down
														101-150	Ramp up-down
														151-200	Lightning
														201-255	Random
			15	17	35	38	40	48	78	80		138	140		**Inner Strobe Rate**
														000-255	Speed, slow to fast
			16	18	36	39	41	49	79	81		139	141		**Inner Strobe Duration**
														000-255	Duration, slow to fast
															Inner Program Macro
														000-005	No Function
														006-033	Macro 1
														034-060	Macro 2
														061-088	Macro 3
		12	17	19		40	42	50	80	82		140	142	089-116	Macro 4
														117-144	Macro 5
														145-172	Macro 6
														173-200	Macro 7
														201-228	Macro 8
														229-255	Macro 9
			18	20		41	43	51	81	83		141	143	000-255	**Inner Program Macro Speed**
		13												000-255	**In/Out Program Macro Speed,** slow to fast

REMOTE DEVICE MANAGEMENT (RDM)

NOTE: 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, allowing 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:

RDM Code	Device ID	Device Model ID	Personality ID
1900	0000-FFFF	79	6CH, 9CH, 13CH, 18CH, 36CH, 41CH, 51CH, 81CH, 126CH, 141CHLK

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:

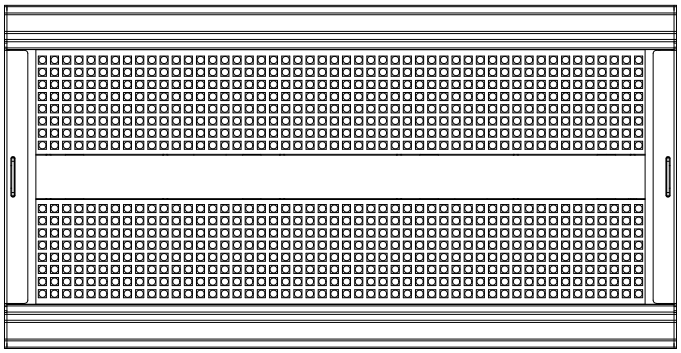
Parameter ID	Code
Sensor Definition	[0x0200]
Sensor Value	[0x0201]
Device Model Description	[0x0080]
Manufacturer Label	[0x0081]
Device Label	[0x0082]
DMX Personality	[0x00E0]
DMX Personality Description	[0x00E1]
Device Hours	[0x0400]
Comms Status	[0x0015]
Status ID Description	[0x0031]
Clear Status ID	[0x0032]
Device Power Cycles	[0x0405]
Display Invert	[0x0500]
Display Level	[0x0501]
Realtime Clock	[0x0603]
Power State	[0x1010]
Preset Playback	[0x1031]
Slot Information	[0x0120]
Slot Description	[0x0122]
Default Slot Value	[0x0122]
Language	[0x00B0]
Language Capabilities	[0x00A0]
Boot Software Version Label	[0x00C2]
Boot Software Version ID	[0x00C1]
Product Detail ID List	[0x0070]
Status Messages	[0x0030]

ERROR CODES

Note: Error Codes are subject to change without any prior written notice.	
ERROR CODES	**DESCRIPTION**
Temp Error	This message will appear after a fixture reset if there is a Temperature Error or Fan Error
Fan Error	

PIXEL ZONES

Fixture without Lens



Fixture with Lens Installed

PIXEL FLIP ON

RGB1	RGB2	RGB3	RGB4	RGB5	RGB6	RGB7	RGB8	RGB9	RGB10
RGB11	RGB12	RGB13	RGB14	RGB15	RGB16	RGB17	RGB18	RGB19	RGB20
W1		W2		W3		W4		W5	W6
RGB21	RGB22	RGB23	RGB24	RGB25	RGB26	RGB27	RGB28	RGB29	RGB30
RGB31	RGB32	RGB33	RGB34	RGB35	RGB36	RGB37	RGB38	RGB39	RGB40

PIXEL FLIP OFF

RGB40	RGB39	RGB38	RGB37	RGB36	RGB35	RGB34	RGB33	RGB32	RGB31
RGB30	RGB29	RGB28	RGB27	RGB26	RGB25	RGB24	RGB23	RGB22	RGB21
W1		W2		W3		W4		W5	W6
RGB20	RGB19	RGB18	RGB17	RGB16	RGB15	RGB14	RGB13	RGB12	RGB11
RGB10	RGB9	RGB8	RGB7	RGB6	RGB5	RGB4	RGB3	RGB2	RGB1

PIXEL ZONES

6 / 9 / 13 / 16 / 20 CH

Outer	
Inner White Group 1	Inner White Group 2
Outer	

36 / 41 / 43 CH

Outer RGB Group 1	Outer RGB Group 2
Outer RGB Group 3	Outer RGB Group 4
Inner White Group 1	Inner White Group 2
Outer RGB Group 5	Outer RGB Group 6
Outer RGB Group 7	Outer RGB Group 8

51 CH

1	1	2	2	3	3	4	4	5	5
1	1	2	2	3	3	4	4	5	5
W1		W2		W3		W4		W5	W6
6	6	7	7	8	8	9	9	10	10
6	6	7	7	8	8	9	9	10	10

81 / 83 CH

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
W1		W2		W3		W4		W5	W6
11	12	13	14	15	16	17	18	19	20
11	12	13	14	15	16	17	18	19	20

126 / 141 / 143 CH

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
W1		W2		W3		W4		W5	W6
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

MULTI UNIT POWER LINKING

These units have the capability to be daisy chained together via the power in/out ports. **The maximum number of units that can be linked together in this manner is as follows:**

- **7 units maximum when running on 120V power.**
- **12 units maximum when running on 220V power.**

DO NOT EXCEED THE NUMBER OF UNITS LISTED ABOVE.

DO NOT MIX MAKE AND MODEL TYPES WHEN DAISY CHAINING! All units that are connected in this manner must be of the same make and model type.

CLEANING AND MAINTENANCE

DISCONNECT POWER BEFORE PERFORMING ANY 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 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 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 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.

SPECIFICATIONS

Light Source:
- 800 x 0.5W RGB SMD LEDs + 48 x 5W Cool White SMD LEDs
- 73° Beam Angle
- 111° Field Angle
- RGB LED Specs: Red: 620-630nm. Green: 515-530nm. Blue: 460-470nm.
- White LEDs CCT: Typical 7400K (Min 6900 - Max 8000), 472nm
- CRI: 69.4
- 50,000 Hour Average LED Life

Features:
- 40 x RGB LED zones (126, 141 and 143CH Modes)
- 6 x Cool White LED zones (51, 81, 83, 126, 141 and 143CH Modes)
- 67 Built-In Color Temperature Presets (2300K-8900K)
- 25 built-in RGB LED Program Macros
- 9 built-in Cool White LED Program Macros
- Integrated Aria X2 Management Suite
- Channel for Light Shaping Filters (to Blur Pixel Dots)
- Includes Frost Lens Filter
- Built-in Receivers to Connect an Omega Bracket (sold separately)

Control:
- Control Protocol: DMX, Aria X2 and RDM
- 14 DMX Modes: 6, 9, 13, 18, 20, 36, 41, 43, 51, 81, 83, 126, 141, and 143 channel modes
- Dim Modes: 6 Presets (Standard, Stage, TV, Architectural, Theatre & Stage 2)
- Dim Curves: 4 Presets (Linear, Square Law, Inv Square Law and S Curve)
- 0-100% Smooth Dimming
- Strobe: Ramp Up / Down, Lighting and Random
- Max Strobe Rate 20Hz. Min Strobe Rate: 1Hz.
- Selectable LED Refresh Rate: 900Hz - 25kHz
- With Wired Digital Communication Network
- Display: OLED display with 4-button touch menu

Connections:
- Data: IP65 Indoor locking 5-pin DMX In/Out
- Power: IP65 Indoor locking power In/Out

Electrical:
- 100-240V 50Hz/60Hz (Auto Sensing)
- Max Power Consumption: 214W @120V., 208W @230V.
- Max Power Link: 7pcs @120V., 12pcs @220V.
- Fuse Protected: T5A/250V Glass Fuse (5*20MM)

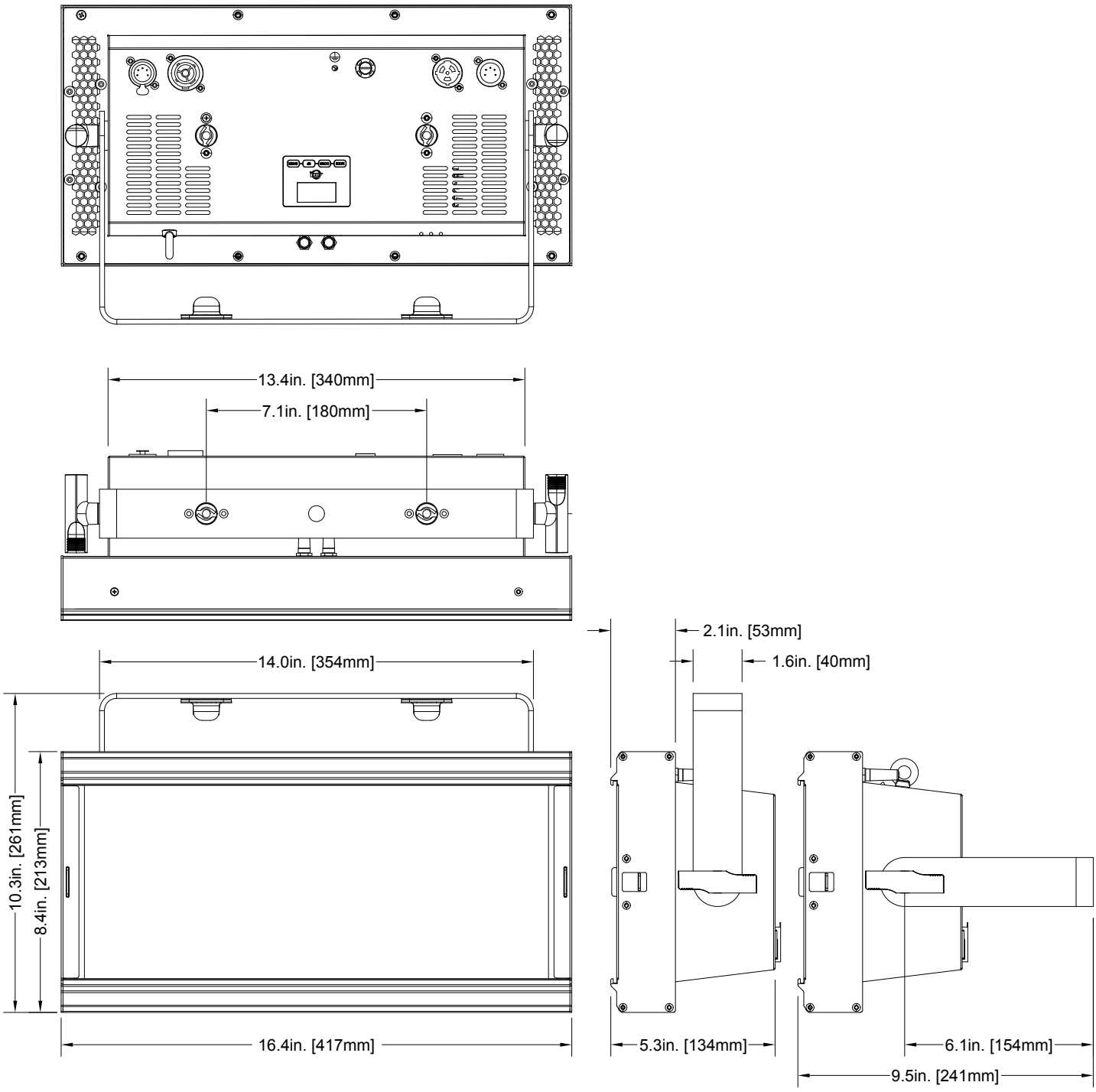
Dimensions / Weight:
- Length: 5.28” (134.2mm)
- Width: 16.42” (417mm)
- Height: 10.26” (260.5mm)
- Weight: 13.67 lbs. (6.2 kg)

What’s Included:
- 1x IP65 Locking Power Cable
- 1x Frost Filter

Optional Accessories:
- 180mm Omega Bracket (Part #: Z-7021600059)
- JPFXBLKF (Sku: JPF001 - Black Filter for Jolt Panel FX2 and Jolt Panel FXIP)
- JPFX1X60LF (Sku: JPF014 - 1x60° Linear Effect Filter for Jolt Panel FX2 and Jolt Panel FXIP)
- JPFX60X1LF (Sku: JPF027 - 60X1° Linear Effect Filter for Jolt Panel FX2 and Jolt Panel FXIP)
- JPFXGS (Sku: JPF040 - Glare Shield for Jolt Panel FX2, Jolt Panel FXIP and 40 Hex Panel FXIP)
- JPFXBD (Sku: JPF053 - Barn Door for Jolt Panel FX2, Jolt Panel FXIP and 40 Hex Panel FXIP)

Approvals and Ratings:
- CE, cETLus (#4010765), IP20

Specifications and documentation subject to change without notice.

DIMENSIONS

Dimensions are not drawn to scale.