



JOLT MFX 360

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
03/31/2026	1.0	1.0	16/31/36/42/79/96/99/105/203/220/223/229	Initial Release

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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.

Parts: To purchase parts online visit:

<http://parts.adj.com> (US)

<http://www.adjparts.eu> (EU)

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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.

WARRANTY REGISTRATION

The Jolt MFX 360 carries a 2 year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items, whether under warranty or not, must be freight pre-paid and 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.

FEATURES

Combining the effects from two popular ADJ fixtures into one groundbreaking product, the Jolt MFX 360 delivers a fusion of classic atmosphere with modern intensity. On one side is the timeless glow of the Vintage Bar: a potent warm white LED blinder strip surrounded by vibrant background color glow. On the other is the raw power of the Jolt Bar: a dazzling white LED strobe strip surrounded by intense RGB wash LEDs. Fast motorized tilt allows near instant transition between the two effects, while 360° continuous rotation unlocks mesmerizing hybrid effects. With pre-programmed effect macros, a lens slot on the Jolt Bar side for optional frost filters, and Aria X2 wireless built in, this unique fixture is ready to deliver both on the road and for integration applications.

- 4 x Amber LED's on Vintage Effect Side (203, 220, 223, and 229CH Modes)
- 20 x RGBL LED Zones on Vintage Effect Side (203, 220, 223, and 229CH Modes)
- 16 x Cool White LED Zones on Jolt FX Bar Side (203, 220, 223, and 229CH Modes)
- 32 x RGB Background LED Zones on Jolt FX Bar Side (203, 220, 223, and 229CH Modes)
- 128 Built-in RGB (Jolt Bar) and RGBL (Vintage) Background LED Macros
- 6 Built-in RGBL LED Program Macros with Speed and Fade Control (Vintage Side)
- 6 Built-in RGB LED Program Macros with Speed and Fade Control (Jolt Bar Side)
- 6 Built-in Cool White LED Program Macros with Speed and Fade Control (Jolt Bar Side)
- 360° Continuous Tilt Movement in both directions
- Tilt Lock
- Built-in Aria X2 Wireless Management System
- NFC Ready
- Lens slot on Jolt Bar side for optional frost lens
- Alignment feature for precise end-to-end unit setup

INCLUDED ITEMS:

- 1 x IP65, 3x14AWG, 6.5ft Locking Power Cable
- 1 x Safety Cable
- 2 x 107mm Omega Brackets

IP RATING

This device is IP20 rated. This means that the unit is protected against the intrusions 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 1.6 FEET (0.5 METERS)

MINIMUM DISTANCE TO LIGHTED OBJECTS IS 1.6 FEET (0.5 METERS)

MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 3.3 FEET (1 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 servicing.

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.

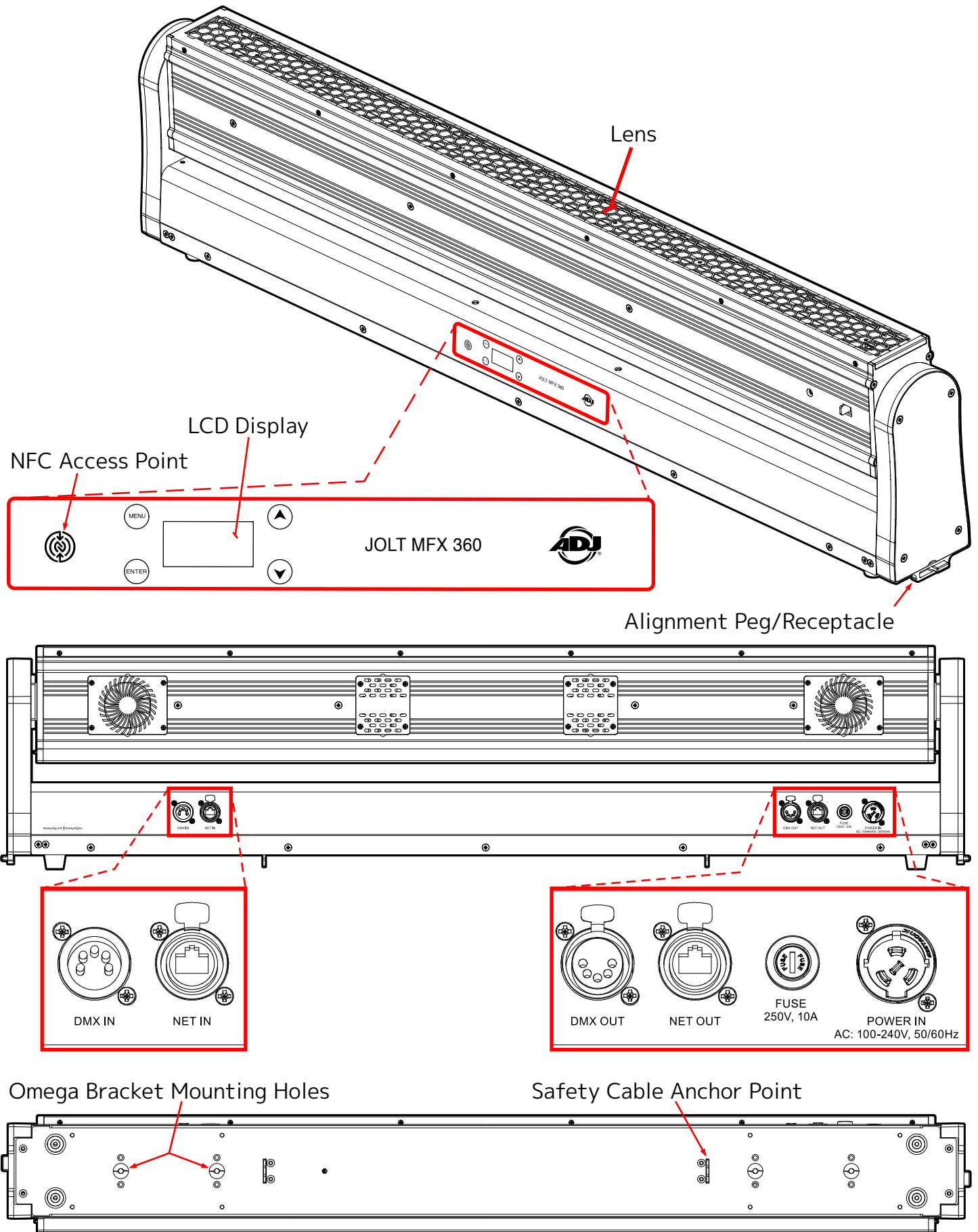
Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.

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



INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 3.3 feet (1m) 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 1.6 FEET (0.5 METERS).

MINIMUM DISTANCE TO LIGHTED OBJECTS IS 1.6 FEET (0.5 METERS).

MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE IS 3.3 FEET (1 METER).

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 **14°F to 113°F (-10°C to 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, removing, 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

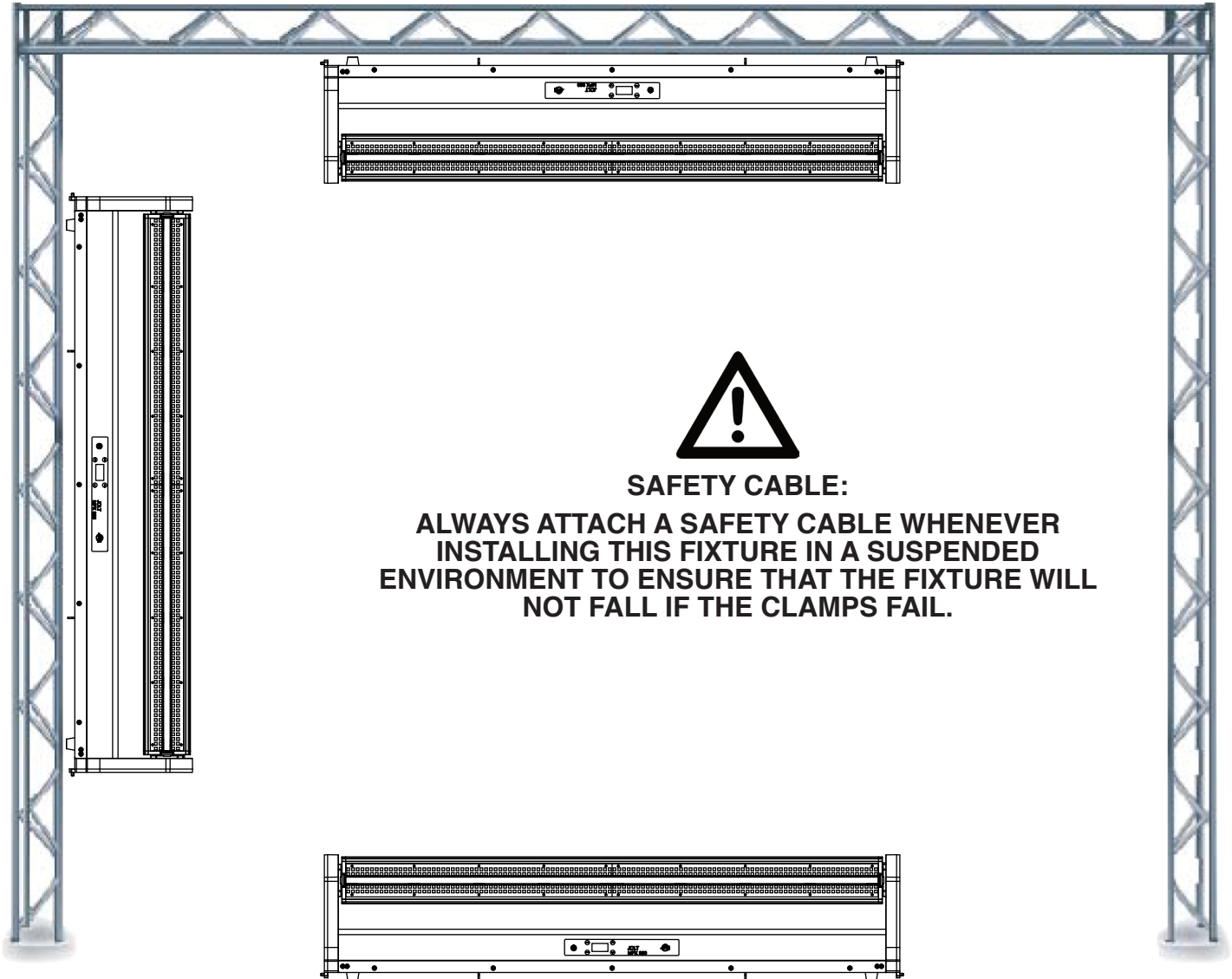
This device is IP20 rated. This means that the unit is protected against the intrusion of solids 2.5mm in size or larger (approximately the size of an adult finger tip). The unit is NOT protected against water or liquid intrusion of any kind! RIGGING

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 a brackets for the attachment of a mounting clamp. There is also a safety cable loop located on the heatsink rear of encased controller). When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure appropriately rated clamps (not included) to the yoke, and attach a separate SAFETY CABLE of the appropriate weight rating to the safety cable loop.



The unit is fully operational in three different mounting positions: hanging upside-down from the ceiling or trussing, sideways on trussing, or set on a flat level surface. Always use and install a safety cable (not included) as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. Never use the carrying handles for secondary attachment.



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!

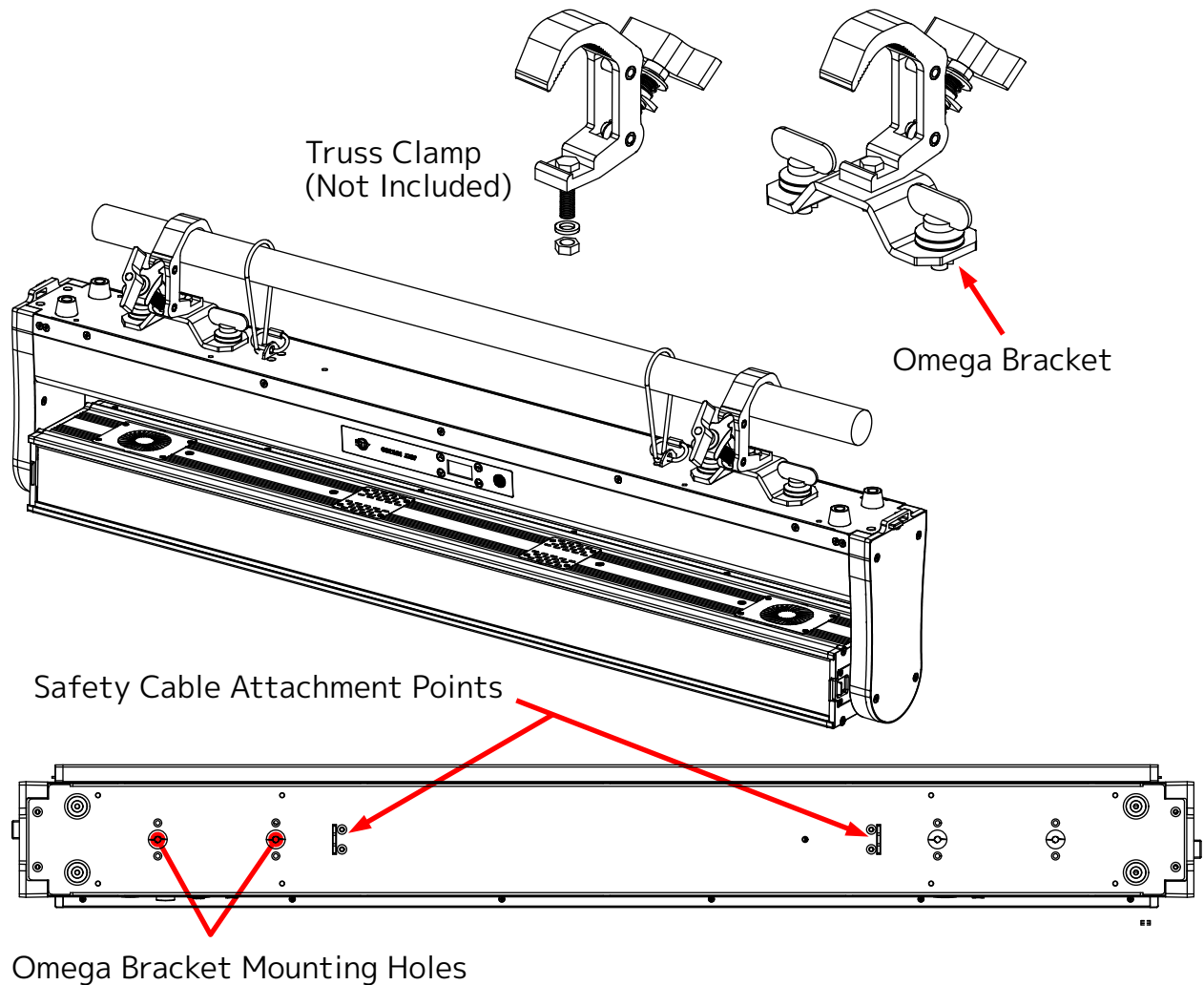


ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

INSTALLATION GUIDELINES

OMEGA BRACKETS INSTALLATION

Remove adjustable brackets and replace them with Omega Receiver Brackets. Insert the Omega Brackets into the matching holes on the Omega Receiver Brackets. Secure the Omega Brackets 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

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.

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.

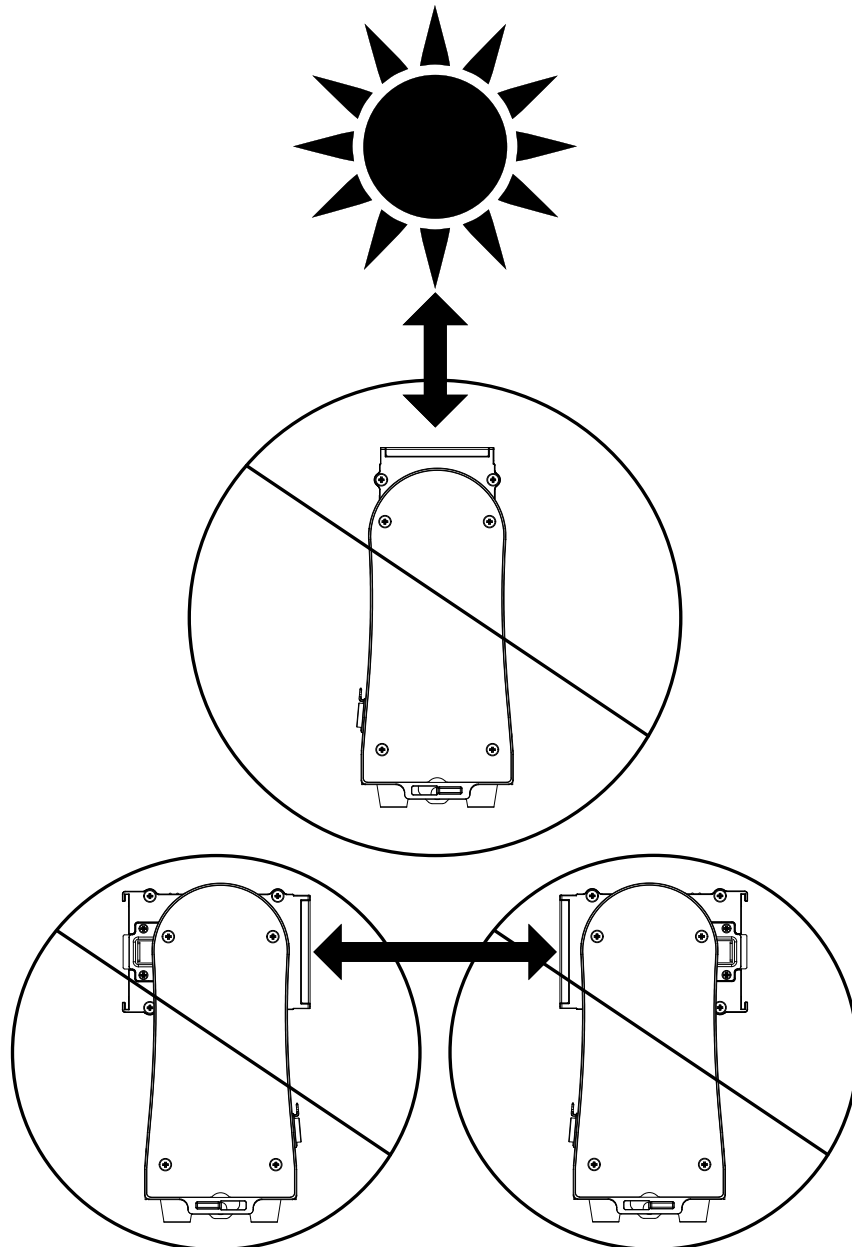
INSTALLATION GUIDELINES

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 MFX 360 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

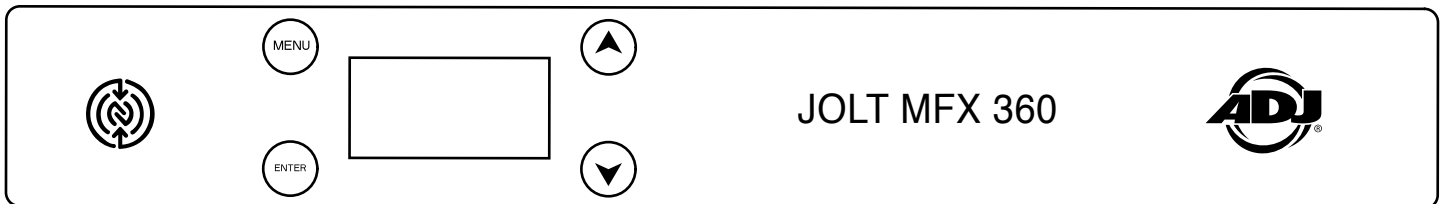
For very critical noise environments, the fixture offers two additional Low Noise Modes for silent operation. The fixture output will be reduced, yet due to the extremely high luminous flux, the fixture still offers outstanding performance. In Low Noise Modes, all parameters of the fixture operate more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

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)		
DMX Settings	DMX Address	001 - 512	
	DMX Mode	16Ch, 31Ch, 36Ch, 42Ch , 79Ch, 96Ch, 99Ch, 105Ch, 203Ch, 220Ch, 223Ch, 229Ch	
	No DMX Status	Hold Last , Blackout, Manual, Internal Programs	
Personality	Prim/Sec Mode	Primary, Secondary	
	Signal	DMX or Aria	
		Aria In / DMX Out	
		DMX In / Aria Out	
	Aria	Aria Enable	ON / OFF
		Frequency	2.4 GHz
			Sub Gig US
			Sub Gig EU
		2.4Ghz CH	00 ~15
		Sub Gig CH	00 ~09
		Mesh	ON / OFF
	Bluetooth Enable	ON / OFF	
	RDM	ON / OFF	
	Fan Settings	Auto , High, Low	
	Dim Modes	Standard , Stage, TV, Architectural, Theatre, Stage 2	
		Dim Speed	0.1S ~10S
	Dim Curves	Linear, Square , Square Inverse, S-Curve	
	LED Refresh Rate	900~1500 (1200), 2500, 4000, 5000, 6000, 10KHZ, 15KHZ, 20KHZ, 25KHZ	
	Display	Screen Saver Delay	OFF, 1M-10M, 5M
		Screen Lock	OFF / On / On 1
		Rotate Display	Yes / No / Auto
	Temperature Unit	°C/°F	
	Service	White Balance (Passcode = 011)	Tilt -127~127 (default 000)
			A_Amber 1 000 -255
			A_Amber 2 000 -255
			A_Amber 3 000 -255
			A_Amber 4 000 -255
A_Red 000 -255			
A_Green 000 -255			
A_Blue 000 -255			
A_Lime 000 -255			
B_White 1 000 -255			
...			
B_White 16 000 -255			
B_Red 000 -255			
B_Green 000 -255			
B_Blue 000 -255			
Universe Offset	ON / OFF		
Factory Restore	Yes / No		

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)	
Ethernet Settings	Protocol	Artnet , sACN, Disable
	IP Mode	2.x.x.x , 10.x.x.x, Custom IP, DHCP
	IP Address	2.1.1.1 Only valid in custom mode
	Net Mask	255.0.0.0 Only valid in custom mode
	ArtNet U	0-32,767
	sACN Settings	sACN U 00001 - 63,999
	Lock Net	sACN Priority 0-255 ON / OFF
Manual	Tilt 000-255	000 - 255
	Tilt Fine 000-255	000 - 255
	Tilt Infinite 000-255	000 - 255
	A_Amber 1 000-255	000 - 255
	A_Amber 2 000-255	000 - 255
	A_Amber 3 000-255	000 - 255
	A_Amber 4 000-255	000 - 255
	All_A_Red 000-255	000 - 255
	All_A_Green 000-255	000 - 255
	All_A_Blue 000-255	000 - 255
	All_A_Lime 000-255	000 - 255
	B_White 1 000-255	000 - 255
	B_White 2 000-255	000 - 255
	B_White 3 000-255	000 - 255
	B_White 4 000-255	000 - 255
	B_White 5 000-255	000 - 255
	B_White 6 000-255	000 - 255
	B_White 7 000-255	000 - 255
	B_White 8 000-255	000 - 255
	B_White 9 000-255	000 - 255
	B_White 10 000-255	000 - 255
	B_White 11 000-255	000 - 255
	B_White 12 000-255	000 - 255
	B_White 13 000-255	000 - 255
	B_White 14 000-255	000 - 255
	B_White 15 000-255	000 - 255
	B_White 16 000-255	000 - 255
	All_B_Red 000-255	000 - 255
	All_B_Green 000-255	000 - 255
	All_B_Blue 000-255	000 - 255
	Shutter 000-255	000 - 255
	Dimmer 000-255	000 - 255
Tilt Speed 000-255	000 - 255	

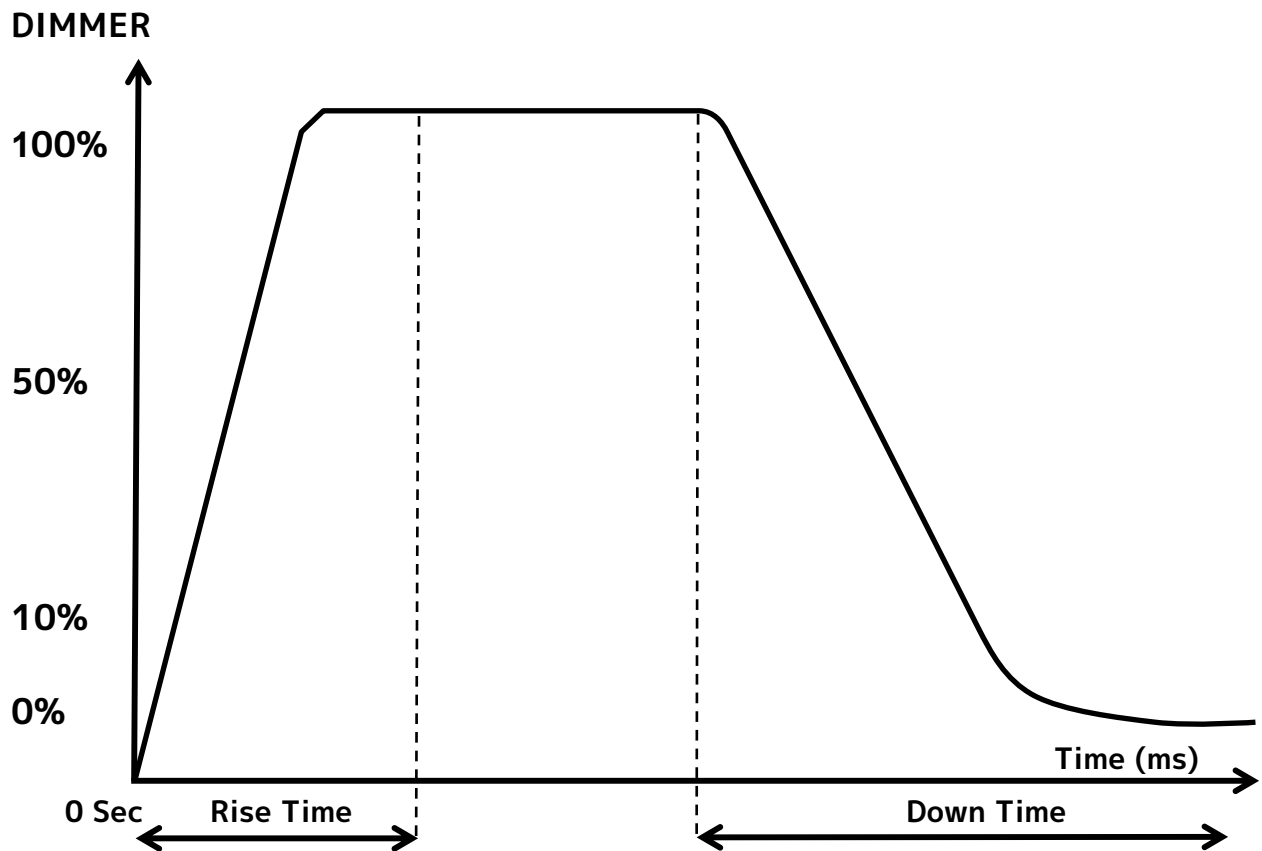
SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)		
Internal Programs	Off			
	Program 1	Speed	000-255	
		Fade	000-255	
	Program 2	Speed	000-255	
		Fade	000-255	
	Program 3	Speed	000-255	
		Fade	000-255	
	Program 4	Speed	000-255	
		Fade	000-255	
	Program 5	Speed	000-255	
		Fade	000-255	
	Program 6	Speed	000-255	
		Fade	000-255	
	Program 7	Speed	000-255	
		Fade	000-255	
	Program 8	Speed	000-255	
		Fade	000-255	
	Program 9	Speed	000-255	
		Fade	000-255	
	Program 10	Speed	000-255	
		Fade	000-255	
	Program 11	Speed	000-255	
		Fade	000-255	
	Program 12	Speed	000-255	
		Fade	000-255	
	Program 13	Speed	000-255	
		Fade	000-255	
	Program 14	Speed	000-255	
		Fade	000-255	
	Program 15	Speed	000-255	
		Fade	000-255	
	Program 16	Speed	000-255	
		Fade	000-255	
	Program 17	Speed	000-255	
		Fade	000-255	
	Program 18	Speed	000-255	
Fade		000-255		
Program 19	Speed	000-255		
	Fade	000-255		
Program 20	Speed	000-255		
	Fade	000-255		
Tilt	Auto	Manual	Position set in manual mode	
		Tilt 1 Side A	Speed	000-255
			Fade	000-255
		Tilt 2 Side A	Speed	000-255
			Fade	000-255
		Tilt 3 Side A	Speed	000-255
			Fade	000-255
		Tilt 4 Side A	Speed	000-255
			Fade	000-255
		Tilt 5 Side B	Speed	000-255
			Fade	000-255
		Tilt 6 Side B	Speed	000-255
			Fade	000-255
		Tilt 7 Side B	Speed	000-255
Fade	000-255			
Tilt 8 Side B	Speed	000-255		
	Fade	000-255		
Tilt 9 Both Side	Speed	000-255		
	Fade	000-255		
Tilt 10 Both Side	Speed	000-255		
	Fade	000-255		
Tilt 11 Both Side	Speed	000-255		
	Fade	000-255		
Tilt 12 Both Side	Speed	000-255		
	Fade	000-255		

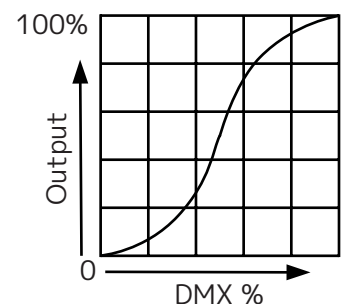
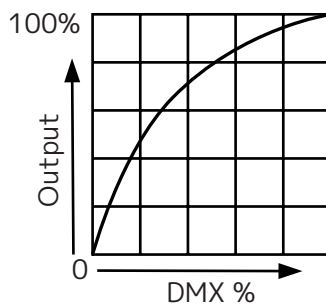
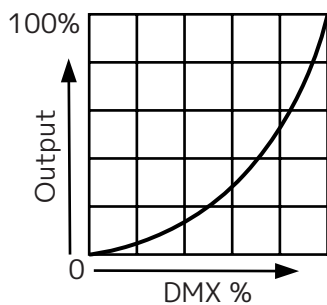
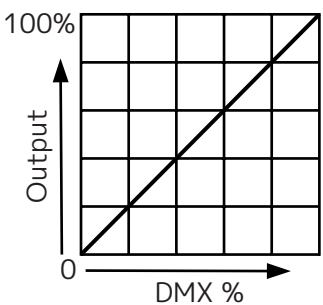
SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)			
Information	Fixture Life Time	PwrOnTime	xxxxxx Hours	
		PwrOn RstTm	xxxxxx Hours	
		PwrOnTmRst	Passcode (038)	
	A Tot LED Hrs	xxxxxx Hours	xxxxxx Hours	
	A Tot LED Reset	Passcode (038)		
	B Tot LED Hrs	xxxxxx Hours	xxxxxx Hours	
	B Tot LED Reset	Passcode (038)		
	Fixture Temp	Side A	A Current	xxx °F / xxx °C
			A MaxRst Temp	xxx °F / xxx °C
			A MaxTemp	xxx °F / xxx °C
		Side B	B Current	xxx °F / xxx °C
			B MaxRst Temp	xxx °F / xxx °C
			B MaxTemp	xxx °F / xxx °C
		Base	Base Current	xxx °F / xxx °C
			Base MaxRst Temp	xxx °F / xxx °C
			Base MaxTemp	xxx °F / xxx °C
		RSTCMaxTemp	RSTCMaxTemp	Passcode (050)
	Fan Info.	Head Fan 1	xxxx	
		Head Fan 2	xxxx	
		Head Fan 3	xxxx	
		Head Fan 4	xxxx	
	DMX Values	Tilt		
		Tilt Fine		
		Tilt Infinite		
		A_Amber 1		
		A_Amber 2		
		...		
	Product ID's	Mac Address	xx-xx-xx-xx-xx-xx	
		RDM UID	xxxxxx	
		Aria ID	xx:xx:xx:xx:xx:xx	
	Error Logs	Fixture Errors	List Errors one by one	
		Reset Error Log	Passcode (050)	
	Software Version	x.xx		

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



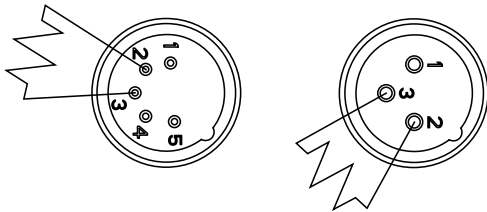
DMX SETUP

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 16 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 17 (1 + 16), the third unit to 33 (1 + 16 + 16), and so on. (See the chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
16 Channels	1	17	33	49
31 Channels	1	32	63	94
36 Channels	1	37	73	109
42 Channels	1	43	85	127
79 Channels	1	80	159	238
96 Channels	1	97	193	289
99 Channels	1	100	199	298
105 Channels	1	106	211	316
203 Channels	1	204	407	610
220 Channels	1	221	441	661
223 Channels	1	224	447	670
229 Channels	1	230	459	688

DMX TRAITS: (16Ch, 31Ch, 36Ch, 42Ch)

CHANNEL				DMX VALUES	FUNCTION
16Ch	31Ch	36Ch	42Ch		
1	1	1	1	0-255	Tilt 0-360°
2	2	2	2	0-255	Tilt Fine
3	3	3	3		Infinite Tilt
				0-127	No Function
				128-190	clockwise rotation, from fast to slow
				191-192	Stop
				193-255	counterclockwise rotation from slow to fast
4	4	4	4	0-255	All Amber 0~100%
			5		Shutter, Strobe AMBER Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
			6	0-255	Dimmer (Intensity) AMBER Side A Intensity 0 to 100%
			7	0-255	Dimmer Fine (Intensity) AMBER Side A
5	5	5	8	0-255	All A_Red 0~100%
6	6	6	9	0-255	All A_Green 0~100%
7	7	7	10	0-255	All A_Blue 0~100%
8	8	8	11	0-255	All A_Lime 0~100%
	9	9	12	0-255	A_RGBL Color Macros
			13		Shutter, Strobe RGBL Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
			14	0-255	Dimmer (Intensity) RGBL Side A Intensity 0 to 100%
			15	0-255	Dimmer Fine (Intensity) RGBL Side A
		10			Shutter, Strobe All Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
		11	0-255	Dimmer (Intensity) All Side A Intensity 0 to 100%	
		12	0-255	Dimmer Fine (Intensity) All Side A	
9	10	13	16	0-255	All White 0~100%

DMX TRAITS: 16Ch, 31Ch, 36Ch, 42Ch

CHANNEL				DMX VALUES	FUNCTION
16Ch	31Ch	36Ch	42Ch		
			17		Shutter, Strobe AMBER Side B
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			18	0-255	Dimmer (Intensity) AMBER Side B Intensity 0 to 100%
			19	0-255	Dimmer Fine (Intensity) AMBER Side B
10	11	14	20	0-255	All B_Red 0~100%
11	12	15	21	0-255	All B_Green 0~100%
12	13	16	22	0-255	All B_Blue 0~100%
	14	17	23	0-255	B_RGBL Color Macros
			24		Shutter, Strobe RGBL Side B
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			25	0-255	Dimmer (Intensity) RGBL Side B Intensity 0 to 100%
			26	0-255	Dimmer Fine (Intensity) RGBL Side B
		18			Shutter, Strobe All Side B
			0-31	Led's Off	
			32-63	Led's On	
			64-95	Strobe effect slow to fast	
			96-127	Led's On	
			128-159	Pulse-effect in sequences	
			160-191	Led's On	
			192-223	Random strobe effect slow to fast	
			224-255	Led's On	
		19	0-255	Dimmer (Intensity) All Side B Intensity 0 to 100%	
		20	0-255	Dimmer Fine (Intensity) All Side B	
13	15				Shutter, Strobe ALL SIDES
		0-31	Led's Off		
		32-63	Led's On		
		64-95	Strobe effect slow to fast		
		96-127	Led's On		
		128-159	Pulse-effect in sequences		
		160-191	Led's On		
		192-223	Random strobe effect slow to fast		
		224-255	Led's On		
14	16		0-255	Dimmer (Intensity) ALL Side B Intensity 0 to 100%	
	17		0-255	Dimmer Fine (Intensity) ALL Side B	

DMX TRAITS: 16Ch, 31Ch, 36Ch, 42Ch

CHANNEL				DMX VALUES	FUNCTION
16Ch	31Ch	36Ch	42Ch		
	18	21	27		A_Amber Internal Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	19	22	28	0-255	A_Amber Internal Programs Speed: Slow to Fast speed
	20	23	29	0-255	A_Amber Internal Programs Fade: Less to More
	21	24	30k		A_RGBL Background Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	22	25	31	0-255	A_RGBL Background Programs Speed: Slow to Fast speed
	23	26	32	0-255	A_RGBL Background Programs Fade: Less to More
	24	27	33		B_White Internal Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	25	28	34	0-255	B_White Internal Programs Speed: Slow to Fast speed
	26	29	35	0-255	B_White Internal Programs Fade: Less to More
	27	30	36		B_RGB Background Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	28	31	37	0-255	B_RGB Background Programs Speed: Slow to Fast speed
	29	32	38	0-255	B_RGB Background Programs Fade: Less to More

DMX TRAITS: 16Ch, 31Ch, 36Ch, 42Ch

CHANNEL				DMX VALUES	FUNCTION
16Ch	31Ch	36Ch	42Ch		
		33	39		Dim Mode
				000-020	No Function
				021-040	Standard
				041-060	Stage
				061-080	TV
				081-100	Architectural
				101-120	Theatre
				121-140	Stage 2
					Dim Speed
				141	0.1 s
				142	0.2 s
				143	0.3 s
				144	0.4 s
				145	0.5 s
				146	0.6 s
				147	0.7 s
				148	0.8 s
				149	0.9 s
				150	1 s
				151	1.5 s
				152	2 s
153	3 s				
154	4 s				
155	5 s				
156	6 s				
157	7 s				
158	8 s				
159	9 s				
160	10 s				
161-255	Default to Unit Setting(Standard)				
		34	40		Dim Curves
				0-20	No Function
				21-40	Linear
				41-60	Square
				61-80	Inv. Squa
				81-100	S. Curve
				101-255	No Function
15	30	35	41	0-255	Tilt Speed fast to slow
16	31	36	42		Special Function
				0006-010	No function (Default LED Refresh Rate 1200 Hz)
				011-011	900 Hz LED Refresh Rate
				012-012	910 Hz LED Refresh Rate
				013-013	920 Hz LED Refresh Rate
				014-014	930 Hz LED Refresh Rate
				015-015	940 Hz LED Refresh Rate
				016-016	950 Hz LED Refresh Rate
				017-017	960 Hz LED Refresh Rate
				018-018	970 Hz LED Refresh Rate
				019-019	980 Hz LED Refresh Rate
				020-020	990 Hz LED Refresh Rate
				021-021	1000 Hz LED Refresh Rate
				022-022	1010 Hz LED Refresh Rate
				023-023	1020 Hz LED Refresh Rate
				024-024	1030 Hz LED Refresh Rate
				025-025	1040 Hz LED Refresh Rate
				026-026	1050 Hz LED Refresh Rate
				027-027	1060 Hz LED Refresh Rate
				028-028	1070 Hz LED Refresh Rate
029-029	1080 Hz LED Refresh Rate				
030-030	1090 Hz LED Refresh Rate				

DMX TRAITS: 16Ch, 31Ch, 36Ch, 42Ch

CHANNEL				DMX VALUES	FUNCTION
16Ch	31Ch	36Ch	42Ch		
42	42	42	42		Special Function
				031-031	1100 Hz LED Refresh Rate
				032-032	1110 Hz LED Refresh Rate
				033-033	1120 Hz LED Refresh Rate
				034-034	1130 Hz LED Refresh Rate
				035-035	1140 Hz LED Refresh Rate
				036-036	1150 Hz LED Refresh Rate
				037-037	1160 Hz LED Refresh Rate
				080-089	Enable Blackout while Tilt moving (Hold 3s)
				090-099	Disable Blackout while Tilt moving (Hold 3s)
				100-105	Fan Mode Auto (Hold 3s)
				106-111	Fan Mode High (Hold 3s)
				112-117	Fan Mode Low (Hold 3s)
				118-122	Pixel Flip Enable (Hold 3s)
				123-127	Pixel Flip Disable (Hold 3s)
				128-132	Enable Bluetooth (Hold 3s)
				133-139	Disable Bluetooth (Hold 3s)
				140-149	Reset Y (Hold 3s)
				150-159	Reset All (Hold 3s)
				160-255	No Function
				050-050	1290 Hz LED Refresh Rate
				051-051	1300 Hz LED Refresh Rate
				052-052	1310 Hz LED Refresh Rate
				053-053	1320 Hz LED Refresh Rate
				054-054	1330 Hz LED Refresh Rate
				055-055	1340 Hz LED Refresh Rate
				056-056	1350 Hz LED Refresh Rate
				057-057	1360 Hz LED Refresh Rate
				058-058	1370 Hz LED Refresh Rate
				059-059	1380 Hz LED Refresh Rate
				060-060	1390 Hz LED Refresh Rate
				061-061	1400 Hz LED Refresh Rate
				062-062	1410 Hz LED Refresh Rate
				063-063	1420 Hz LED Refresh Rate
				064-064	1430 Hz LED Refresh Rate
				065-065	1440 Hz LED Refresh Rate
				066-066	1450 Hz LED Refresh Rate
				067-067	1460 Hz LED Refresh Rate
				068-068	1470 Hz LED Refresh Rate
				069-069	1480 Hz LED Refresh Rate
				070-070	1490 Hz LED Refresh Rate
				071-071	1500 Hz LED Refresh Rate
072-072	2500 Hz LED Refresh Rate				
073-073	4000 Hz LED Refresh Rate				
074-074	5000 Hz LED Refresh Rate				
075-075	6000 Hz LED Refresh Rate				
076-076	10K Hz LED Refresh Rate				
077-077	15K Hz LED Refresh Rate				
078-078	20K Hz LED Refresh Rate				
079-079	25K Hz LED Refresh Rate				

DMX TRAITS: 16Ch, 31Ch, 36Ch, 42Ch

CHANNEL				DMX VALUES	FUNCTION
16Ch	31Ch	36Ch	42Ch		
16	31	36	42		Special Function
				080-089	Enable Blackout while Tilt moving (Hold 3s)
				090-099	Disable Blackout while Tilt moving (Hold 3s)
				100-105	Fan Mode Auto (Hold 3s)
				106-111	Fan Mode High (Hold 3s)
				112-117	Fan Mode Low (Hold 3s)
				118-122	Pixel Flip Enable (Hold 3s)
				123-127	Pixel Flip Disable (Hold 3s)
				128-132	Enable Bluetooth (Hold 3s)
				133-139	Disable Bluetooth (Hold 3s)
				140-149	Reset Y (Hold 3s)
				150-159	Reset All (Hold 3s)
				160-255	No Function

DMX TRAITS: (79Ch, 96Ch, 99Ch, 105Ch)

CHANNEL				DMX VALUES	FUNCTION
79Ch	96Ch	99Ch	105Ch		
1	1	1	1	0-255	Tilt 0-360°
2	2	2	2	0-255	Tilt Fine
3	3	3	3		Infinite Tilt
				0-127	No Function
				128-190	clockwise rotation, from fast to slow
				191-192	Stop
				193-255	counterclockwise rotation from slow to fast
4	4	4	4	0-255	A_Amber 1 0~100%
5	5	5	5	0-255	A_Amber 2 0~100%
6	6	6	6	0-255	A_Amber 3 0~100%
7	7	7	7	0-255	A_Amber 4 0~100%
			8		Shutter, Strobe AMBER Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			9	0-255	Dimmer (Intensity) AMBER Side A Intensity 0 to 100%
			10	0-255	Dimmer Fine (Intensity) AMBER Side A
8	8	8	118	0-255	A_Red 1-2 0~100%
9	9	9	12	0-255	A_Green 1-2 0~100%
10	10	10	13	0-255	A_Blue 1-2 0~100%
11	11	11	14	0-255	A_Lime 1-2 0~100%
...
44	44	44	47	0-255	A_Red 19-20 0~100%
45	45	45	48	0-255	A_Green 19-20 0~100%
46	46	46	49	0-255	A_Blue 19-20 0~100%
47	47	47	50	0-255	A_Lime 19-20 0~100%
	48	48	51	0-255	A_RGBL Color Macros
			52		Shutter, Strobe RGBL Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			53	0-255	Dimmer (Intensity) RGBL Side A Intensity 0 to 100%
			54	0-255	Dimmer Fine (Intensity) RGBL Side A

DMX TRAITS: (79Ch, 96Ch, 99Ch, 105Ch)

CHANNEL				DMX VALUES	FUNCTION
79h	96Ch	99Ch	105Ch		
		49			Shutter, Strobe All Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
		50		0-255	Dimmer (Intensity) All Side A Intensity 0 to 100%
		51		0-255	Dimmer Fine (Intensity) All Side A
48	49	52	55	0-255	B_White 1-4 0~100%
49	50	53	56	0-255	B_White 5-8 0~100%
50	51	54	57	0-255	B_White 9-12 0~100%
51	52	55	58	0-255	B_White 13-16 0~100%
			59		Shutter, Strobe AMBER Side B
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			60	0-255	Dimmer (Intensity) AMBER Side B Intensity 0 to 100%
			61	0-255	Dimmer Fine (Intensity) AMBER Side B
52	53	56	62	0-255	B_Red 1-4 0~100%
53	54	57	63	0-255	B_Green 1-4 0~100%
54	55	58	64	0-255	B_Blue 1-4 0~100%
...
73	74	77	83	0-255	B_Red 29-32 0~100%
74	75	78	84	0-255	B_Green 29-32 0~100%
75	76	79	85	0-255	B_Blue 29-32 0~100%

DMX TRAITS: (79Ch, 96Ch, 99Ch, 105Ch)

CHANNEL				DMX VALUES	FUNCTION
79Ch	96Ch	99Ch	105Ch		
	77	80	86	0-255	B_RGBL Color Macros
			87		Shutter, Strobe RGBL Side B
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			88	0-255	Dimmer (Intensity) RGBL Side B Intensity 0 to 100%
			89	0-255	Dimmer Fine (Intensity) RGBL Side B
		81			Shutter, Strobe All Side B
			0-31	Led's Off	
			32-63	Led's On	
			64-95	Strobe effect slow to fast	
			96-127	Led's On	
			128-159	Pulse-effect in sequences	
			160-191	Led's On	
			192-223	Random strobe effect slow to fast	
			224-255	Led's On	
		82		0-255	Dimmer (Intensity) All Side B Intensity 0 to 100%
		83		0-255	Dimmer Fine (Intensity) All Side B
76	78				Shutter, Strobe ALL SIDES
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
77	79			0-255	Dimmer (Intensity) ALL Side B Intensity 0 to 100%
	80			0-255	Dimmer Fine (Intensity) ALL Side B

DMX TRAITS: (79Ch, 96Ch, 99Ch, 105Ch)

CHANNEL				DMX VALUES	FUNCTION
79Ch	96Ch	99Ch	105Ch		
	81	84	90		A_Amber Internal Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	82	85	91	0-255	A_Amber Internal Programs Speed: Slow to Fast speed
	83	86	92	0-255	A_Amber Internal Programs Fade: Less to More
	84	87	93		A_RGBL Background Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	85	88	94	0-255	A_RGBL Background Programs Speed: Slow to Fast speed
	86	89	95	0-255	A_RGBL Background Programs Fade: Less to More
	87	90	96		B_White Internal Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	88	91	97	0-255	B_White Internal Programs Speed: Slow to Fast speed
	89	92	98	0-255	B_White Internal Programs Fade: Less to More
	90	93	99		B_RGB Background Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	91	94	100	0-255	B_RGB Background Programs Speed: Slow to Fast speed
	92	95	101	0-255	B_RGB Background Programs Fade: Less to More

DMX TRAITS: (79Ch, 96Ch, 99Ch, 105Ch)

CHANNEL				DMX VALUES	FUNCTION
79Ch	96Ch	99Ch	105Ch		
	93	96	102		Dim Mode
				000-020	No Function
				021-040	Standard
				041-060	Stage
				061-080	TV
				081-100	Architectural
				101-120	Theatre
				121-140	Stage 2
					Dim Speed
				141	0.1 s
				142	0.2 s
				143	0.3 s
				144	0.4 s
				145	0.5 s
				146	0.6 s
				147	0.7 s
				148	0.8 s
				149	0.9 s
				150	1 s
				151	1.5 s
				152	2 s
153	3 s				
154	4 s				
155	5 s				
156	6 s				
157	7 s				
158	8 s				
159	9 s				
160	10 s				
161-255	Default to Unit Setting(Standard)				
	94	97	103		Dim Curves
				0-20	No Function
				21-40	Linear
				41-60	Square
				61-80	Inv. Squa
				81-100	S. Curve
				101-255	No Function
78	95	98	104	0-255	Tilt Speed fast to slow
79	96	99	105		Special Function
				0006-010	No function (Default LED Refresh Rate 1200 Hz)
				011-011	900 Hz LED Refresh Rate
				012-012	910 Hz LED Refresh Rate
				013-013	920 Hz LED Refresh Rate
				014-014	930 Hz LED Refresh Rate
				015-015	940 Hz LED Refresh Rate
				016-016	950 Hz LED Refresh Rate
				017-017	960 Hz LED Refresh Rate
				018-018	970 Hz LED Refresh Rate
				019-019	980 Hz LED Refresh Rate
				020-020	990 Hz LED Refresh Rate
				021-021	1000 Hz LED Refresh Rate
				022-022	1010 Hz LED Refresh Rate
				023-023	1020 Hz LED Refresh Rate
				024-024	1030 Hz LED Refresh Rate
				025-025	1040 Hz LED Refresh Rate
				026-026	1050 Hz LED Refresh Rate
				027-027	1060 Hz LED Refresh Rate
				028-028	1070 Hz LED Refresh Rate
				029-029	1080 Hz LED Refresh Rate
030-030	1090 Hz LED Refresh Rate				

DMX TRAITS: (79Ch, 96Ch, 99Ch, 105Ch)

CHANNEL				DMX VALUES	FUNCTION
79Ch	96Ch	99Ch	105Ch		
79	96	99	105		Special Function
				031-031	1100 Hz LED Refresh Rate
				032-032	1110 Hz LED Refresh Rate
				033-033	1120 Hz LED Refresh Rate
				034-034	1130 Hz LED Refresh Rate
				035-035	1140 Hz LED Refresh Rate
				036-036	1150 Hz LED Refresh Rate
				037-037	1160 Hz LED Refresh Rate
				080-089	Enable Blackout while Tilt moving (Hold 3s)
				090-099	Disable Blackout while Tilt moving (Hold 3s)
				100-105	Fan Mode Auto (Hold 3s)
				106-111	Fan Mode High (Hold 3s)
				112-117	Fan Mode Low (Hold 3s)
				118-122	Pixel Flip Enable (Hold 3s)
				123-127	Pixel Flip Disable (Hold 3s)
				128-132	Enable Bluetooth (Hold 3s)
				133-139	Disable Bluetooth (Hold 3s)
				140-149	Reset Y (Hold 3s)
				150-159	Reset All (Hold 3s)
				160-255	No Function
				050-050	1290 Hz LED Refresh Rate
				051-051	1300 Hz LED Refresh Rate
				052-052	1310 Hz LED Refresh Rate
				053-053	1320 Hz LED Refresh Rate
				054-054	1330 Hz LED Refresh Rate
				055-055	1340 Hz LED Refresh Rate
				056-056	1350 Hz LED Refresh Rate
				057-057	1360 Hz LED Refresh Rate
				058-058	1370 Hz LED Refresh Rate
				059-059	1380 Hz LED Refresh Rate
				060-060	1390 Hz LED Refresh Rate
				061-061	1400 Hz LED Refresh Rate
062-062	1410 Hz LED Refresh Rate				
063-063	1420 Hz LED Refresh Rate				
064-064	1430 Hz LED Refresh Rate				
065-065	1440 Hz LED Refresh Rate				
066-066	1450 Hz LED Refresh Rate				
067-067	1460 Hz LED Refresh Rate				
068-068	1470 Hz LED Refresh Rate				
069-069	1480 Hz LED Refresh Rate				
070-070	1490 Hz LED Refresh Rate				
071-071	1500 Hz LED Refresh Rate				
072-072	2500 Hz LED Refresh Rate				
073-073	4000 Hz LED Refresh Rate				
074-074	5000 Hz LED Refresh Rate				
075-075	6000 Hz LED Refresh Rate				
076-076	10K Hz LED Refresh Rate				
077-077	15K Hz LED Refresh Rate				
078-078	20K Hz LED Refresh Rate				
079-079	25K Hz LED Refresh Rate				

DMX TRAITS: (79Ch, 96Ch, 99Ch, 105Ch)

CHANNEL				DMX VALUES	FUNCTION
79Ch	96Ch	99Ch	105Ch		
79	96	99	105		Special Function
				080-089	Enable Blackout while Tilt moving (Hold 3s)
				090-099	Disable Blackout while Tilt moving (Hold 3s)
				100-105	Fan Mode Auto (Hold 3s)
				106-111	Fan Mode High (Hold 3s)
				112-117	Fan Mode Low (Hold 3s)
				118-122	Pixel Flip Enable (Hold 3s)
				123-127	Pixel Flip Disable (Hold 3s)
				128-132	Enable Bluetooth (Hold 3s)
				133-139	Disable Bluetooth (Hold 3s)
				140-149	Reset Y (Hold 3s)
				150-159	Reset All (Hold 3s)
				160-255	No Function

DMX TRAITS: (203Ch, 220Ch, 223Ch, 229Ch)

CHANNEL				DMX VALUES	FUNCTION
203Ch	220Ch	223Ch	229Ch		
1	1	1	1	0-255	Tilt 0-360°
2	2	2	2	0-255	Tilt Fine
3	3	3	3		Infinite Tilt
				0-127	No Function
				128-190	clockwise rotation, from fast to slow
				191-192	Stop
				193-255	counterclockwise rotation from slow to fast
4	4	4	4	0-255	A_Amber 1 0~100%
5	5	5	5	0-255	A_Amber 2 0~100%
6	6	6	6	0-255	A_Amber 3 0~100%
7	7	7	7	0-255	A_Amber 4 0~100%
			8		Shutter, Strobe AMBER Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			9	0-255	Dimmer (Intensity) AMBER Side A Intensity 0 to 100%
			10	0-255	Dimmer Fine (Intensity) AMBER Side A
8	8	8	118	0-255	A_Red 1 0~100%
9	9	9	12	0-255	A_Green 1 0~100%
10	10	10	13	0-255	A_Blue 1 0~100%
11	11	11	14	0-255	A_Lime 1 0~100%
...
84	84	84	87	0-255	A_Red 20 0~100%
85	85	85	88	0-255	A_Green 20 0~100%
86	86	86	89	0-255	A_Blue 20 0~100%
87	87	87	90	0-255	A_Lime 20 0~100%
	88	88	91	0-255	A_RGBL Color Macros
			92		Shutter, Strobe RGBL Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			93	0-255	Dimmer (Intensity) RGBL Side A Intensity 0 to 100%
			94	0-255	Dimmer Fine (Intensity) RGBL Side A

DMX TRAITS: (203Ch, 220Ch, 223Ch, 229Ch)

CHANNEL				DMX VALUES	FUNCTION
203Ch	220Ch	223Ch	229Ch		
		89			Shutter, Strobe All Side A
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
		90		0-255	Dimmer (Intensity) All Side A Intensity 0 to 100%
		91		0-255	Dimmer Fine (Intensity) All Side A
88	89	92	95	0-255	B_White 1 0~100%
89	90	93	96	0-255	B_White 2 0~100%
90	91	94	97	0-255	B_White 3 0~100%
91	92	95	98	0-255	B_White 4 0~100%
100	101	104	107	0-255	B_White 1 0~100%
101	102	105	108	0-255	B_White 2 0~100%
102	103	106	109	0-255	B_White 3 0~100%
103	104	107	110	0-255	B_White 4 0~100%
			111		Shutter, Strobe AMBER Side B
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			112	0-255	Dimmer (Intensity) AMBER Side B Intensity 0 to 100%
			113	0-255	Dimmer Fine (Intensity) AMBER Side B
104	105	108	114	0-255	B_Red 1 0~100%
105	106	109	115	0-255	B_Green 1 0~100%
106	107	110	116	0-255	B_Blue 1 0~100%
...
197	198	201	207	0-255	B_Red 32 0~100%
198	199	202	208	0-255	B_Green 32 0~100%
199	200	203	209	0-255	B_Blue 32 0~100%

DMX TRAITS: (203Ch, 220Ch, 223Ch, 229Ch)

CHANNEL				DMX VALUES	FUNCTION
203Ch	220Ch	223Ch	229Ch		
	201	204	210	0-255	B_RGBL Color Macros
			211		Shutter, Strobe RGBL Side B
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
				224-255	Led's On
			212	0-255	Dimmer (Intensity) RGBL Side B Intensity 0 to 100%
			213	0-255	Dimmer Fine (Intensity) RGBL Side B
		205			Shutter, Strobe All Side B
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
		224-255	Led's On		
		206		0-255	Dimmer (Intensity) All Side B Intensity 0 to 100%
		207		0-255	Dimmer Fine (Intensity) All Side B
200	202				Shutter, Strobe ALL SIDES
				0-31	Led's Off
				32-63	Led's On
				64-95	Strobe effect slow to fast
				96-127	Led's On
				128-159	Pulse-effect in sequences
				160-191	Led's On
				192-223	Random strobe effect slow to fast
224-255	Led's On				
201	203			0-255	Dimmer (Intensity) ALL Side B Intensity 0 to 100%
	204			0-255	Dimmer Fine (Intensity) ALL Side B

DMX TRAITS: (203Ch, 220Ch, 223Ch, 229Ch)

CHANNEL				DMX VALUES	FUNCTION
203Ch	220Ch	223Ch	229Ch		
205	208	214	214		A_Amber Internal Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	206	209	215	0-255	A_Amber Internal Programs Speed: Slow to Fast speed
	207	210	216	0-255	A_Amber Internal Programs Fade: Less to More
208	211	217	217		A_RGBL Background Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	209	212	218	0-255	A_RGBL Background Programs Speed: Slow to Fast speed
	210	213	219	0-255	A_RGBL Background Programs Fade: Less to More
211	214	220	220		B_White Internal Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	212	215	221	0-255	B_White Internal Programs Speed: Slow to Fast speed
	213	216	222	0-255	B_White Internal Programs Fade: Less to More
214	217	223	223		B_RGB Background Programs:
				0-19	No Function
				20-50	Program 1
				51-80	Program 2
				81-110	Program 3
				111-140	Program 4
				141-170	Program 5
				171-200	Program 6
				201-230	Program 0
				231-255	No Function
	215	218	224	0-255	B_RGB Background Programs Speed: Slow to Fast speed
	216	219	225	0-255	B_RGB Background Programs Fade: Less to More

DMX TRAITS: (203Ch, 220Ch, 223Ch, 229Ch)

CHANNEL				DMX VALUES	FUNCTION
203Ch	220Ch	223Ch	229Ch		
	217	220	226		Dim Mode
				000-020	No Function
				021-040	Standard
				041-060	Stage
				061-080	TV
				081-100	Architectural
				101-120	Theatre
				121-140	Stage 2
					Dim Speed
				141	0.1 s
				142	0.2 s
				143	0.3 s
				144	0.4 s
				145	0.5 s
				146	0.6 s
				147	0.7 s
				148	0.8 s
				149	0.9 s
				150	1 s
				151	1.5 s
				152	2 s
153	3 s				
154	4 s				
155	5 s				
156	6 s				
157	7 s				
158	8 s				
159	9 s				
160	10 s				
161-255	Default to Unit Setting(Standard)				
	218	221	227		Dim Curves
				0-20	No Function
				21-40	Linear
				41-60	Square
				61-80	Inv. Squa
				81-100	S. Curve
				101-255	No Function
202	219	222	228	0-255	Tilt Speed fast to slow
203	220	223	229		Special Function
				0006-010	No function (Default LED Refresh Rate 1200 Hz)
				011-011	900 Hz LED Refresh Rate
				012-012	910 Hz LED Refresh Rate
				013-013	920 Hz LED Refresh Rate
				014-014	930 Hz LED Refresh Rate
				015-015	940 Hz LED Refresh Rate
				016-016	950 Hz LED Refresh Rate
				017-017	960 Hz LED Refresh Rate
				018-018	970 Hz LED Refresh Rate
				019-019	980 Hz LED Refresh Rate
				020-020	990 Hz LED Refresh Rate
				021-021	1000 Hz LED Refresh Rate
				022-022	1010 Hz LED Refresh Rate
				023-023	1020 Hz LED Refresh Rate
				024-024	1030 Hz LED Refresh Rate
				025-025	1040 Hz LED Refresh Rate
				026-026	1050 Hz LED Refresh Rate
				027-027	1060 Hz LED Refresh Rate
				028-028	1070 Hz LED Refresh Rate
				029-029	1080 Hz LED Refresh Rate
030-030	1090 Hz LED Refresh Rate				

DMX TRAITS: (203Ch, 220Ch, 223Ch, 229Ch)

CHANNEL				DMX VALUES	FUNCTION
203Ch	220Ch	223Ch	229Ch		
203	220	223	229		Special Function
				031-031	1100 Hz LED Refresh Rate
				032-032	1110 Hz LED Refresh Rate
				033-033	1120 Hz LED Refresh Rate
				034-034	1130 Hz LED Refresh Rate
				035-035	1140 Hz LED Refresh Rate
				036-036	1150 Hz LED Refresh Rate
				037-037	1160 Hz LED Refresh Rate
				080-089	Enable Blackout while Tilt moving (Hold 3s)
				090-099	Disable Blackout while Tilt moving (Hold 3s)
				100-105	Fan Mode Auto (Hold 3s)
				106-111	Fan Mode High (Hold 3s)
				112-117	Fan Mode Low (Hold 3s)
				118-122	Pixel Flip Enable (Hold 3s)
				123-127	Pixel Flip Disable (Hold 3s)
				128-132	Enable Bluetooth (Hold 3s)
				133-139	Disable Bluetooth (Hold 3s)
				140-149	Reset Y (Hold 3s)
				150-159	Reset All (Hold 3s)
				160-255	No Function
				050-050	1290 Hz LED Refresh Rate
				051-051	1300 Hz LED Refresh Rate
				052-052	1310 Hz LED Refresh Rate
				053-053	1320 Hz LED Refresh Rate
				054-054	1330 Hz LED Refresh Rate
				055-055	1340 Hz LED Refresh Rate
				056-056	1350 Hz LED Refresh Rate
				057-057	1360 Hz LED Refresh Rate
				058-058	1370 Hz LED Refresh Rate
				059-059	1380 Hz LED Refresh Rate
				060-060	1390 Hz LED Refresh Rate
				061-061	1400 Hz LED Refresh Rate
				062-062	1410 Hz LED Refresh Rate
				063-063	1420 Hz LED Refresh Rate
				064-064	1430 Hz LED Refresh Rate
				065-065	1440 Hz LED Refresh Rate
				066-066	1450 Hz LED Refresh Rate
				067-067	1460 Hz LED Refresh Rate
				068-068	1470 Hz LED Refresh Rate
				069-069	1480 Hz LED Refresh Rate
070-070	1490 Hz LED Refresh Rate				
071-071	1500 Hz LED Refresh Rate				
072-072	2500 Hz LED Refresh Rate				
073-073	4000 Hz LED Refresh Rate				
074-074	5000 Hz LED Refresh Rate				
075-075	6000 Hz LED Refresh Rate				
076-076	10K Hz LED Refresh Rate				
077-077	15K Hz LED Refresh Rate				
078-078	20K Hz LED Refresh Rate				
079-079	25K Hz LED Refresh Rate				

DMX TRAITS: (203Ch, 220Ch, 223Ch, 229Ch)

CHANNEL				DMX VALUES	FUNCTION
203Ch	220Ch	223Ch	229Ch		
203	220	223	229		Special Function
				080-089	Enable Blackout while Tilt moving (Hold 3s)
				090-099	Disable Blackout while Tilt moving (Hold 3s)
				100-105	Fan Mode Auto (Hold 3s)
				106-111	Fan Mode High (Hold 3s)
				112-117	Fan Mode Low (Hold 3s)
				118-122	Pixel Flip Enable (Hold 3s)
				123-127	Pixel Flip Disable (Hold 3s)
				128-132	Enable Bluetooth (Hold 3s)
				133-139	Disable Bluetooth (Hold 3s)
				140-149	Reset Y (Hold 3s)
				150-159	Reset All (Hold 3s)
				160-255	No Function

COLOR MACRO CHART: (A RGLB MACROS)

Color	DMX Value	RGLB COLOR INTENSITY				Color	DMX Value	RGLB COLOR INTENSITY			
		RED	GREEN	BLUE	LIME			RED	GREEN	BLUE	LIME
Off	0	0	0	0	0	Color Macro 33	129-132	255	206	143	0
Color Macro 1	1-4	255	0	0	0	Color Macro 34	133-136	254	177	153	0
Color Macro 2	5-8	0	255	0	0	Color Macro 35	137-140	254	192	138	0
Color Macro 3	9-12	0	0	255	0	Color Macro 36	141-144	254	165	98	0
Color Macro 4	13-16	0	0	0	255	Color Macro 37	145-148	254	121	0	0
Color Macro 5	17-20	255	255	0	0	Color Macro 38	149-152	176	17	0	0
Color Macro 6	21-24	0	255	255	0	Color Macro 39	153-156	96	0	11	0
Color Macro 7	25-28	255	255	255	255	Color Macro 40	157-160	234	139	171	0
Color Macro 8	29-32	255	200	74	80	Color Macro 41	161-164	224	5	97	0
Color Macro 9	33-36	255	166	77	26	Color Macro 42	165-168	175	77	173	0
Color Macro 10	37-40	255	125	74	62	Color Macro 43	169-172	119	130	199	0
Color Macro 11	41-44	255	97	77	33	Color Macro 44	173-176	147	164	212	0
Color Macro 12	45-48	255	71	77	200	Color Macro 45	177-180	88	2	163	0
Color Macro 13	49-52	255	83	134	176	Color Macro 46	181-184	0	38	86	0
Color Macro 14	53-56	255	93	182	61	Color Macro 47	185-188	0	142	208	0
Color Macro 15	57-60	255	96	236	44	Color Macro 48	189-192	52	148	209	0
Color Macro 16	61-64	238	93	255	211	Color Macro 49	193-196	1	134	201	0
Color Macro 17	65-68	196	87	255	255	Color Macro 50	197-200	0	145	212	0
Color Macro 18	69-72	150	90	255	255	Color Macro 51	201-204	0	121	192	0
Color Macro 19	73-76	100	77	255	125	Color Macro 52	205-208	0	129	184	0
Color Macro 20	77-80	77	100	255	14	Color Macro 53	209-212	0	83	115	0
Color Macro 21	81-84	67	148	255	189	Color Macro 54	213-216	0	97	166	0
Color Macro 22	85-88	77	195	255	114	Color Macro 55	217-220	1	100	167	0
Color Macro 23	89-92	77	234	255	210	Color Macro 56	221-224	0	40	86	0
Color Macro 24	93-96	158	255	144	111	Color Macro 57	225-228	209	219	182	0
Color Macro 25	97-100	255	251	153	11	Color Macro 58	229-232	42	165	85	0
Color Macro 26	101-104	255	101	147	21	Color Macro 59	233-236	0	46	35	0
Color Macro 27	105-108	255	138	186	140	Color Macro 60	237-240	8	107	222	0
Color Macro 28	109-112	255	147	251	255	Color Macro 61	241-244	80	255	234	0
Color Macro 29	113-116	151	138	255	196	Color Macro 62	245-248	80	255	164	0
Color Macro 30	117-120	99	0	255	255	Color Macro 63	249-252	77	255	112	0
Color Macro 31	121-124	138	169	255	212	Color Macro 64	253-255	117	255	83	0
Color Macro 32	128-128	255	243	77	86						

COLOR MACRO CHART: (B RGB MACROS)

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

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
0x1900	Generate by MCU ID	0x000B	16ch(1), 31ch(2), 36ch(3), 42ch(4), 79ch(5), 96ch(6), 99ch(7), 105ch(8), 203ch(9), 220ch(10), 223ch(11), 229ch(12)

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.

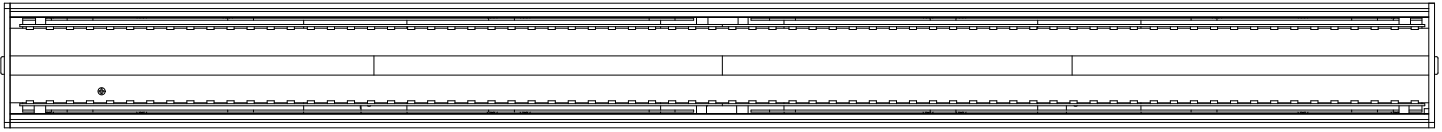
The following parameters are accessible in RDM on this device:

Parameter ID	Code
DISC_UNIQUE_BRANCH	0x0001
DISC_MUTE	0x0002
DISC_UN_MUTE	0x0003
SUPPORTED_PARAMETERS	0x0050
PARAMETER_DESCRIPTION	0x0051
DEVICE_INFO	0x0060
SOFTWARE_VERSION_LABEL	0x00C0
DMX_START_ADDRESS	0x00F0
IDENTIFY_DEVICE	0x1000
DEVICE_MODEL_DESCRIPTION	0x0080
MANUFACT_LABEL	0x0081
DEVICE_LABEL	0x0082
DMX_PERSONALITY	0x00E0
DMX_PERSONALITY_DESCRIPTION	0x00E1
DEVICE_HOURS	0x0400

PIXEL GROUPING AND FLIP DIAGRAMS

PIXEL FLIP - OFF (DEFAULT)

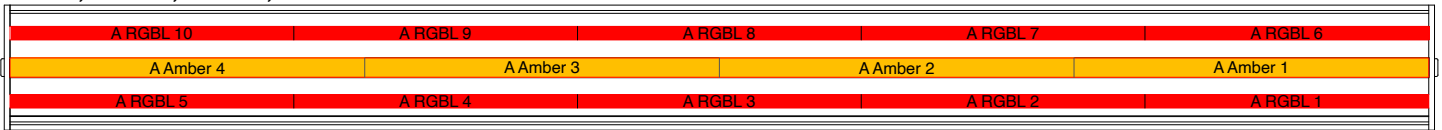
A



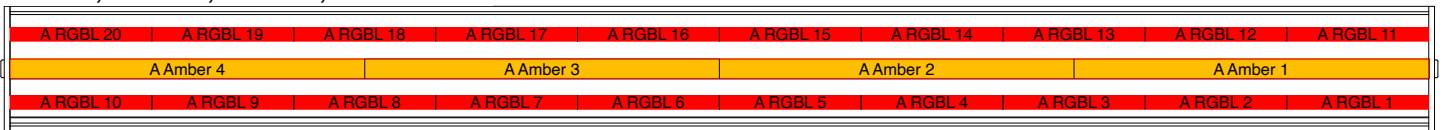
16Ch, 31Ch, 36Ch, and 42Ch



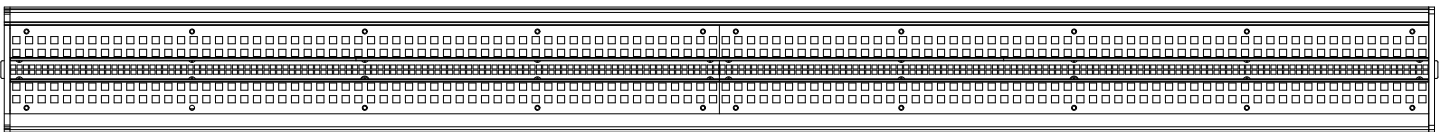
79Ch, 96Ch, 99Ch, and 105Ch



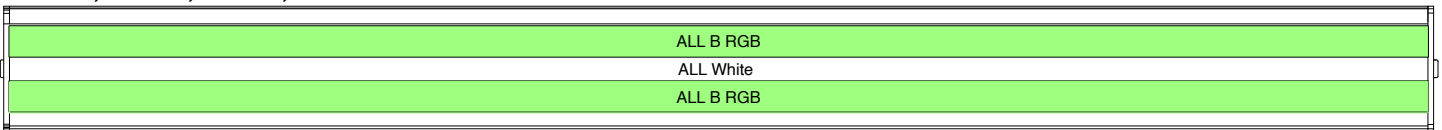
203Ch, 220Ch, 223Ch, and 229Ch



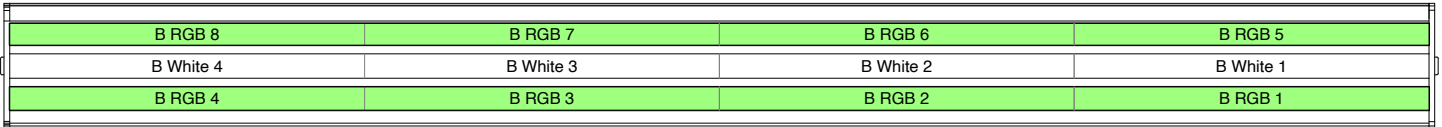
B



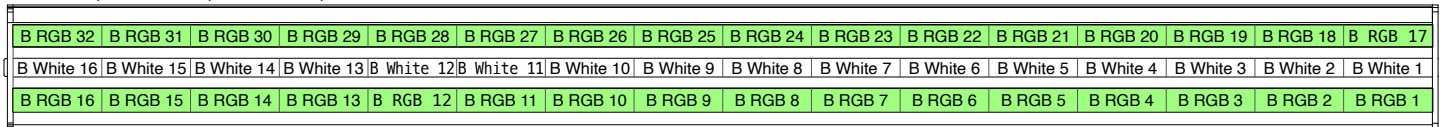
116Ch, 31Ch, 36Ch, and 42Ch



79Ch, 96Ch, 99Ch, and 105Ch



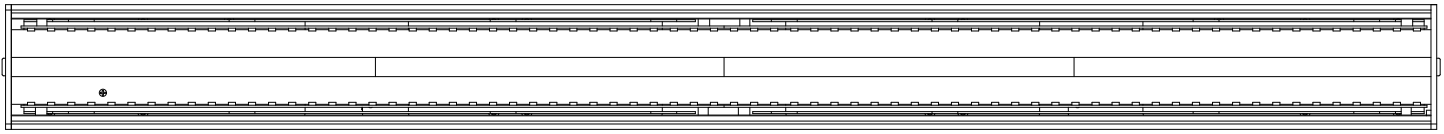
203Ch, 220Ch, 223Ch, and 229Ch



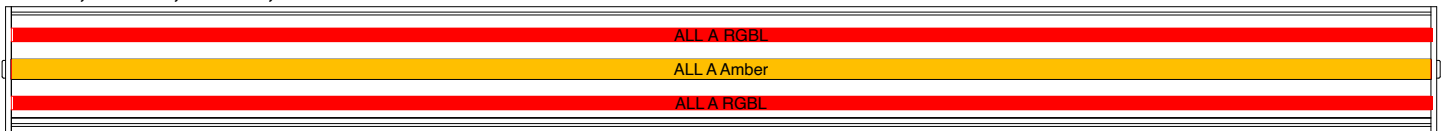
PIXEL GROUPING AND FLIP DIAGRAMS

PIXEL FLIP - ON

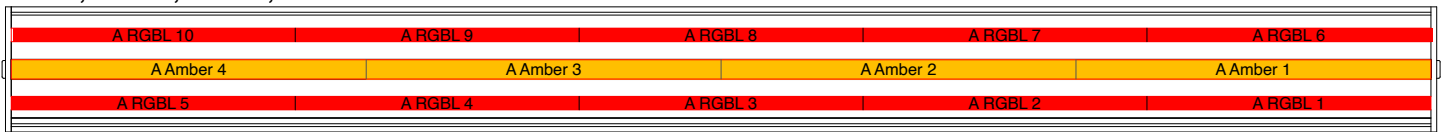
A



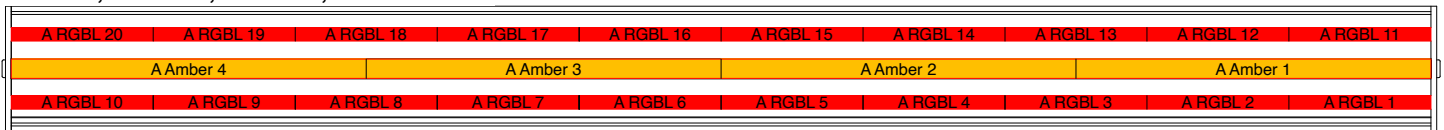
16Ch, 31Ch, 36Ch, and 42Ch



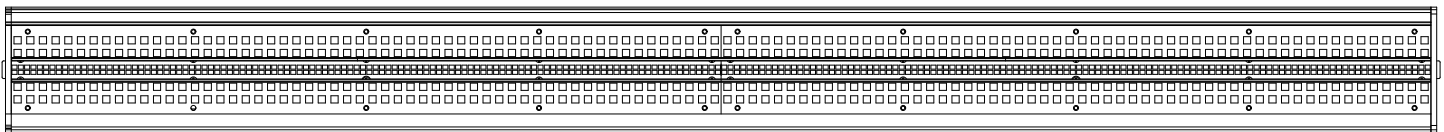
79Ch, 96Ch, 99Ch, and 105Ch



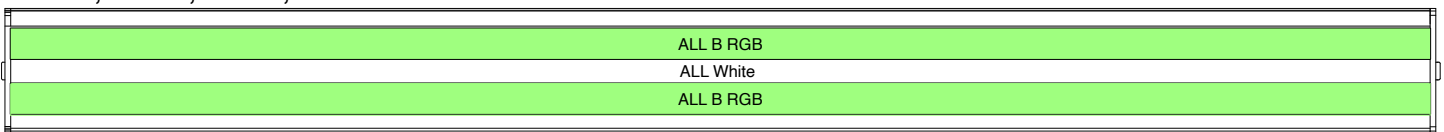
203Ch, 220Ch, 223Ch, and 229Ch



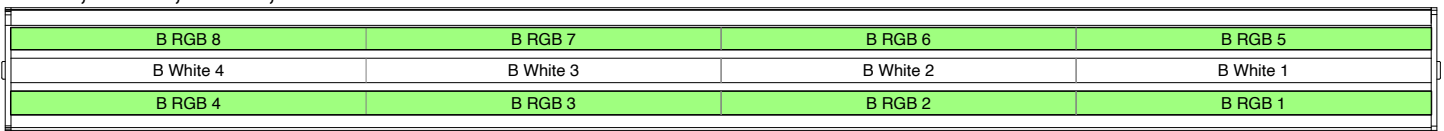
B



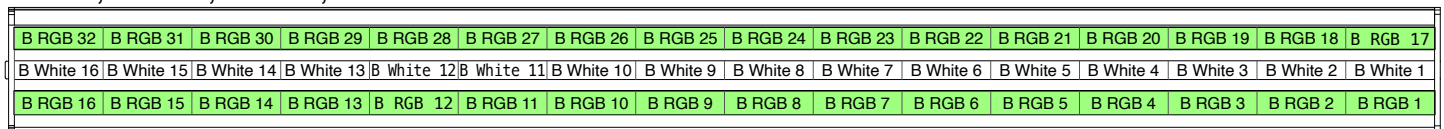
116Ch, 31Ch, 36Ch, and 42Ch



79Ch, 96Ch, 99Ch, and 105Ch



203Ch, 220Ch, 223Ch, and 229Ch



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.

ERROR CODES

ERROR GROUP	ERROR CODE
Encoder Error	Tilt Encoder Error
Sensor Error	Tilt Sensor Error
Communication Error	CPU-B Error
	CPU-C Error
	CPU-D Error
Net Error	Net Communication
	Net Protocol
	Net Model Mismatch
Temp Error	Temp High
	A Temp Sensitive 1
	A Temp Sensitive 2
	A Temp Sensitive 3
	A Temp Sensitive 4
	B Temp Sensitive 1
	B Temp Sensitive 2
Fan Error	Fan1 Error
	Fan2 Error
	Fan3 Error
	Fan4 Error
EEPROM Error	EEPROM Error

SPECIFICATIONS

Source:

Vintage Effect Side

- 4 x 100-Watt COB Amber (1800K) LED's
 - Wavelength: 588-592nm
 - Lux: 473
 - CRI: 60
 - Beam Angle: 120°
 - Field Angle: 140°
 - LED Life (Average): 50,000 Hours
- 140 x 0.8-Watt RGBL SMD LED's
 - Wavelength: Red (620-625nm), Green (520-525nm), Blue (455-460nm), Lime (570nm)
 - LED Life (Average): 50,000 Hours

Jolt Bar Effect Side

- 224 x 1-Watt Cool White (6500K) SMD LED's
 - Wavelength: 620nm
 - LUX: 585
 - CRI: 73
 - Beam Angle: 60°
 - Field Angle: 80°
 - LED Life (Average): 50,000 Hours
- 448 x 0.5-Watt RGB SMD LED's
 - Wavelength: Red (630nm), Green (520-525nm), Blue (470nm)
 - LED Life (Average): 50,000 Hours

Features:

- 4 x Amber LED's on Vintage Effect Side (203, 220, 223, and 229CH Modes)
- 20 x RGBL LED Zones on Vintage Effect Side (203, 220, 223, and 229CH Modes)
- 16 x Cool White LED Zones on Jolt FX Bar Side (203, 220, 223, and 229CH Modes)
- 32 x RGB Background LED Zones on Jolt FX Bar Side (203, 220, 223, and 229CH Modes)
- 128 Built-in RGB (Jolt Bar) and RGBL (Vintage) Background LED Macros
- 6 Built-in RGBL LED Program Macros with Speed and Fade Control (Vintage Side)
- 6 Built-in RGB LED Program Macros with Speed and Fade Control (Jolt Bar Side)
- 6 Built-in Cool White LED Program Macros with Speed and Fade Control (Jolt Bar Side)
- 360° Continuous Tilt Movement in both directions
- Tilt Lock
- Built-in Aria X2 Wireless Management System
- NFC Ready
- Lens slot on Jolt Bar side for optional frost lens
- Alignment feature for precise end-to-end unit setup

Control:

- Control Protocols: DMX, ArtNet, sACN, Aria X2, NFC and RDM
- Primary / Secondary Functionality
- 12 DMX Channel Modes: 16, 31, 36, 42, 79, 96, 99, 105, 203, 220, 223, and 229
- 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 Effects: Linear Speed, Pulse, and Random

- Max Strobe Rate: 25Hz; Min Strobe Rate: 0.35Hz
- Refresh Rate: 900Hz–25kHz
- OLED Display Menu with 4 Touch Buttons

Connections:

- Data: Seetronic 5-pin XLR Locking DMX In/Thru
- Data: Seetronic RJ45 Locking In/Thru
- Power: IP65 Power Locking In/Thru

Electrical:

- 100–240V, 50Hz/60Hz (Auto Sensing)
- Max Power Consumption: 780W (7.09A @ 110V, 3.55A @ 220V)
- Fuse Protected: T6.3A/250V Glass Fuse (5x20mm)

Dimensions / Weight:

- Length: 42.44" (1078.2mm)
- Width: 5.08" (129.2mm)
- Height: 11.02" (280mm)
- Weight: 40.4 lbs (18.3kg)

What's Included:

- 1 x IP65, 3x14AWG, 6.5ft Locking Power Cable
- 1 x Safety Cable
- 2 x 107mm Omega Brackets

Optional Accessories:

- JBFX1X60LF (SKU: JBF036) – 1x60° Linear Effect Filter for Jolt MFX 360, Jolt Bar FX2, and Jolt Bar FXIP
- JBFX60X1LF (SKU: JBF062) – 60x1° Linear Effect Filter for Jolt MFX 360, Jolt Bar FX2, and Jolt Bar FXIP

Approvals and Ratings:

- CE, cETLus (Pending), IP20



DIMENSIONS

Dimensions are not drawn to scale.

