

ELIMINATOR[®]

LIGHTING



MEGA FLAT HEX PAK

User Instructions

07/17/2023

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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.

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GENERAL INFORMATION

INTRODUCTION

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

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

UNPACKING

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

INCLUDED ITEMS:

- 4x Mega Hex Par
- 4x (1M/3ft.) IEC to Edison power cables
- 3x (2m/6 ft) 3-pin DMX cables
- 1x ELIMINATOR Carry Bag
- 1x ELIMINATOR UC IR wireless remote

CUSTOMER SUPPORT

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

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
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REPLACEMENT PARTS please visit parts.adj.com



IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.

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

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

LIMITED WARRANTY (USA ONLY)

- A. Eliminator Lighting, an ADJ Products, LLC brand, hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

LIMITED WARRANTY PERIODS

- **All Eliminator Lighting products (except laser diodes) = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobos, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **Batteries = 180 Day Limited Warranty** (excluding batteries which have a 180 day limited warranty)

SAFETY GUIDELINES

! CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT



**AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
SEE MANUAL FOR SAFETY INSTRUCTIONS.**

- **RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET (UV) RADIATION!**
- **FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET LIGHT.**
- **WEAR PROPER EYE AND SKIN PROTECTION.**
- **DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVER OR PROTECTIVE LENS.**
- **DO NOT LOOK DIRECTLY INTO THE (UV) LIGHT AND/OR VIEW (UV) LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT.**
- **AVOID PROLONGED PERIODS OF EXPOSURE.**
- **AVOID WEARING WHITE COLOR CLOTHING AND/OR USING (UV) PAINTS ON SKIN.**
- **AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES SHORTER THAN 11 FEET (3.3 METERS).**
- **INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTSENSITIVE MEDICATION MAY EXPERIENCE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET (UV) LIGHT EMITTED FROM THIS FIXTURE.**
- Be sure to save the packing carton in the unlikely event the device has to be returned for service.
- Do not spill water or other liquids into or on to the fixture, charging system, or IR remote.
- Be sure that the voltage of the power source matches the required voltage for the device.
- Do not open up the device for any reason. There are no user serviceable parts inside.
- Disconnect the device's main power when left unused for long periods of time.
- Never connect this device to a dimmer pack.
- Do not attempt to operate this device if it has been damaged in any way.
- Never operate this device with the cover removed.
- To reduce the risk of electrical shock or fire, do not expose the charging system, IR remote, or fixture to rain or moisture.
- Do not attempt to operate this device if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in the event of an internal short.
- Disconnect from main power before making any type of connection.
- Never block the ventilation holes. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- The charging system and fixture are intended for indoor use only. Use of these devices outdoors voids all warranties.
- Always mount this unit in a safe and stable matter.
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on, or pinched by items placed upon or against them.

Maximum operating temperature for this fixture is 113 degrees F (45 degrees C). Do not operate this device when ambient temperature exceeds this value!

Keep flammable materials away from this fixture!

CHARGING DEVICES AND FIXTURE ARE DESIGNED FOR INDOOR USE ONLY! DO NOT EXPOSE TO RAIN OR MOISTURE!

The device should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged.
- B. Objects have fallen on, or liquid has been spilled into, the device.
- C. The charging devices or fixture have been exposed to rain or water.
- D. The appliance does not appear to operate normally or exhibits a marked change in performance.

OVERVIEW



UC IR REMOTE CONTROL

The **UC IR** (sold separately) infrared remote gives you control of various functions (See below). To control the fixture you must aim the remote at the front of the fixture and be no more than 30 feet away. To use the ELIMINATOR UC IR you must first activate the fixtures infrared sensor, to activate the sensor please see the instructions on page 23.

CONTROLS

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

FULL ON - Press this button to fully light up the unit.

FADE/GOBO - This button can activate color change mode, color fade mode, or combination color change and fade mode. Each press of the button will switch through the 3 different modes. Use the numeral buttons 1-9 to select the program number within your desired mode. Use the dimmer buttons to adjust the output intensity.

Note: Running speed is not adjustable using the IR control functions.

Example: In color change mode (AJXX), press the numeral buttons “1+3” to run color change program “13”. In color fade mode (AFX), press the numeral button “7” to run color fade program “7”. Note: Color change and fade combination mode has only one program.

“DIMMER +” and **“DIMMER -”** - Use these buttons to adjust the output intensity in operating mode.

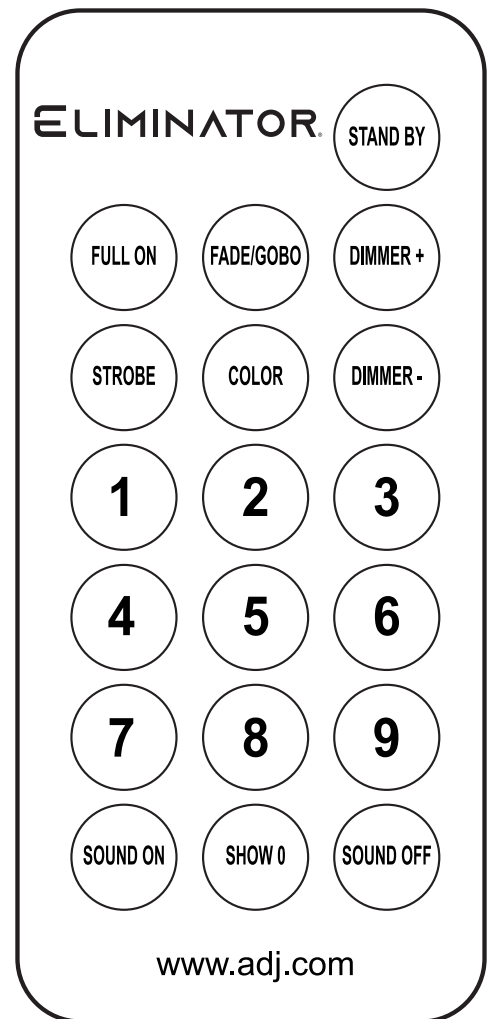
STROBE - Press this button to activate strobing. Use buttons 1-4 to adjust the strobe speed. “1” being the slowest, “4” being the fastest.

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

Numeral Buttons 1-9 - Use buttons 1-9 to select your desired color in static color mode, or your desired program in color fade mode and color change mode. In static color mode, color fade mode, or color change mode, press the corresponding numeral buttons to select your desired color or program.

SOUND ON & OFF - Use the buttons to activate and deactivate sound active mode.

SHOW 0 - Press this button along with any single numeral button to access a static color, or program within color change mode and color fade mode.



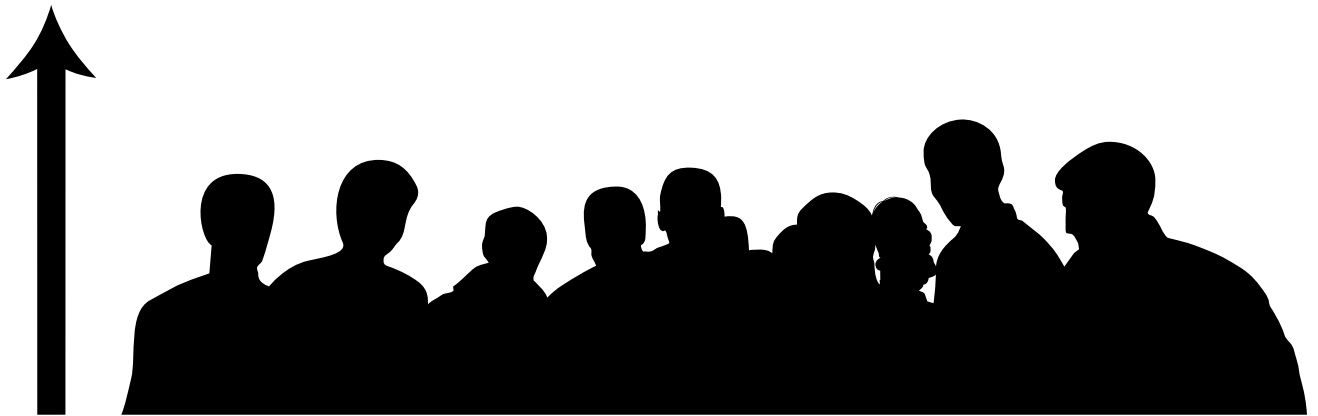
WIRELESS SETUP

There are many factors that can affect and/or interrupt a wireless signal, including walls, glass, metal, objects, and people. Therefore, the following guidelines are recommended in order to maximize the chances of having a clear path for the wireless signal to reach the device:

- Install the device a minimum of 9.8 ft (3m) above audiences and/or ground level.
- Arrange the wireless antenna in an upright, vertical position.
- Position devices in direct line of sight of the transmitting controller.

Careful planning and testing of the selected installation location is critical to ensure optimum and reliable wireless operation.

**9.8 ft (3m)
Above Ground**



SYSTEM MENU

This fixture includes an easy to navigate control panel display, from which all necessary settings and adjustments can be made. Press the **MODE** button to scroll through the main menu options, then press **ENTER** to select the currently displayed option. Then use the **UP** and **DOWN** buttons to scroll through the sub-menu options until reaching the desired setting. Press the **MODE** button at any time to return to the main menu without making any adjustments.



SYSTEM MENU

MODE	SET UP	UP/DOWN	DESCRIPTION
DMX Mode	Address	<i>d001 ~ d512</i>	Set DMX starting address
	Channels	<i>Ch06</i>	Select DMX channel mode
		<i>Ch07</i>	
		<i>Ch08</i>	
		<i>Ch11</i>	
		<i>Ch12</i>	
	No DMX Mode	<i>bLRc</i>	When DMX signal is lost or interrupted, unit switches all LEDs off
		<i>LASt</i>	When DMX signal is lost or interrupted, unit holds last state before signal was lost
		<i>PrOG</i>	When DMX signal is lost or interrupted, unit will run internal program
		<i>nRnU</i>	When DMX signal is lost or interrupted, the unit will default to manual setting
	Delay Mode	<i>dr-0 ~ dr-4</i>	Select delay mode
SEcd Mode	SEcd Mode	<i>SEcd</i>	Set unit to secondary mode
Dimmer Mode	Red dimmer	<i>r000 ~ r255</i>	Adjust red color intensity
	Green dimmer	<i>G000 ~ G255</i>	Adjust green color intensity
	Blue dimmer	<i>b000 ~ b255</i>	Adjust blue color intensity
	White dimmer	<i>U000 ~ U255</i>	Adjust white color intensity
	Amber dimmer	<i>R000 ~ R255</i>	Adjust amber color intensity
	UV dimmer	<i>u000 ~ u255</i>	Adjust UV intensity
	Flash	<i>F500 ~ F515</i>	Adjust flash speed; 00 is off, 01 is slowest, 15 is fastest
Sound Mode	Mode select	<i>So01 ~ So16</i>	Select from 16 built in sound modes
	Sensitivity select	<i>SJ-1 ~ SJ-8</i>	Adjust sound sensitivity; 1 is lowest level and 8 is highest level
Auto Run Mode	Color Fade Mode	<i>AF01 ~ AF16</i>	Select from 16 color fade modes
	Color Change Mode	<i>AJ01 ~ AJ16</i>	Select from 16 color change modes
	Color Fade & Color Change	<i>A-JF</i>	Color fade and color changes modes run in a continuous cycle
	Speed Set	<i>SP01 ~ SP16</i>	Adjust speed of cycle
Static Color Select Mode	Color Select	<i>CL00 ~ CL63</i>	Select from the built-in static colors
	Flash	<i>F500 ~ F515</i>	Adjust flash speed; FS00 is off, FS01 is slowest, FS15 is fastest
Other Mode	Display on/off	<i>don</i>	Display screen always stays on
		<i>doFF</i>	Display screen off
	IR Remote Function on/off	<i>Iron</i>	IR remote function on
		<i>IroF</i>	IR remote function off
	Display normal/inverse	<i>Stnd</i> <i>rEV</i>	Display screen standard orientation Display screen inverted orientation
	Initialization mode	<i>dEFA</i>	Restore unit to factory settings

SYSTEM MENU

LED Display On/Off: To set the LED display to turn off after 10 seconds of inactivity, press the MODE button until “don” is displayed, then press the UP button to scroll to “doff”. Now the display will disappear after 10s of inactivity. Press any button to turn the display on again.

- “don” = LED display on at all times.
- “doFF” = LED display shuts off after 10 seconds of inactivity.

LED Display Inversion: Flip the display 180° so that the display can be read upside down.

1. Plug the fixture in and press the MODE button until either “Stnd” or “rEv” is displayed. “Stnd” sets the display in standard orientation, while “rEv” inverts the display.
2. Press the UP or DOWN buttons to toggle between the two options.
3. Press ENTER to confirm the option that you want to use.

Operating Modes: The Mega HEX Par has five operating modes:

- DMX control mode - This function will allow you to control each individual fixture’s traits with a standard DMX 512 controller.
- RGBWA + UV Mode - Choose one of the six colors to remain static, or adjust the intensity of each color to make a custom color.
- Sound-Active mode - The unit will react to sound, chasing through the built in programs. There are 16 sound active modes.
- Auto Mode - There are 33 Auto Modes to choose from: 16 color fade modes, 16 color change modes, and 1 combination mode.
- Static Color Mode - There are 63 colors to choose from.

Static Color Mode:

1. Plug the fixture in and press the MODE button until “CLXX” is displayed.
2. There are 63 colors to choose from. Select your desired color by pressing the UP and DOWN buttons, then press ENTER to confirm.
3. Next, activate strobing by pressing the SET UP button to enter the Flash (strobe) mode. “FS.XX” will be displayed, indicated that the unit is in Flash mode. The Flash can be adjusted between “FS.00” (flash off) to “FS.15” (fastest flash).

Sound Active Mode: In this mode the Mega HEX Par will react to sound, and chase through the different colors.

1. Plug the fixture in and press the MODE button until “SoXX” is displayed. “XX” represents the sound active mode (1-16) that is currently selected. Use the UP and DOWN buttons to scroll through the sound active modes.
2. After you have found your desired sound active mode, press the SET UP button to adjust the sound sensitivity. “SJ-X” will be displayed. Use the UP and DOWN buttons to adjust the sensitivity. “SJ-1” is the lowest sensitivity, and “SJ-8” is the highest.

DMX Mode: Operating through a DMX controller gives the user the freedom to create custom programs tailored to their own individual needs. The Mega HEX Par has 5 DMX modes: 6 Channel mode, 7 Channel mode, 8 Channel mode, 11 Channel mode, and a 12 Channel mode.

1. To run your fixture in DMX mode, press the MODE button until “d.XXX” is displayed. “XXX” represents the currently selected address. Use the UP or DOWN buttons to select your desired DMX address, then press the SETUP button to select your DMX Channel mode.
2. Use the UP or DOWN buttons to scroll through the DMX Channel modes. Detailed information can be found in the DMX Traits section of this manual. The Channel modes are listed below:
 - Ch06 for 6-channel mode.
 - Ch07 for 7-channel mode
 - Ch08 for 8-channel mode
 - Ch11 for 11-channel mode
 - Ch12 for 12-channel mode
3. After you have chosen your desired DMX Channel mode, connect the fixture to any standard DMX controller via the XLR connections.

SYSTEM MENU

RGBWA + UV Dimmer Mode:

1. Plug the fixture in and press the MODE button until “r.XXX” is displayed. This indicates that the fixture is in Red dimming mode.
2. Press the UP and DOWN buttons to adjust intensity. After you have finished adjusting the intensity, or if you would like to skip to the next color, press the SET UP button.
3. When “G.XXX” is displayed, the fixture is in Green dimming mode. Press the UP and DOWN buttons to adjust intensity.
4. When “b.XXX” is displayed, the fixture is in Blue dimming mode. Press the UP and DOWN buttons to adjust intensity.
5. When “U.XXX” is displayed, the fixture is in White dimming mode. Press the UP and DOWN buttons to adjust intensity.
6. When “A.XXX” is displayed, the fixture is in Amber dimming mode. Press the UP and DOWN buttons to adjust intensity.
7. When “u.XXX” is displayed, the fixture is in UV dimming mode. Press the UP and DOWN buttons to adjust intensity.
8. After you have adjusted the colors as desired, you can then activate strobing by pressing the SET UP button to enter the strobe mode.
9. “FS.XX” will be displayed, indicating that the fixture is in strobe mode. The strobe can be adjusted between “00” (flash off) to “15” (fastest flash).

Auto Run Mode: There are 3 types of Auto Run Modes to choose from: Color Fade, Color Change, and both modes running together. The running speed is adjustable in all 3 modes.

1. Plug the fixture in and press the MODE button until either “AFXX”, “AJXX”, or “A-JF” is displayed. Press the SET UP Button to change between the 3 Auto Run modes.
 - AFXX = Color Fade mode, with 16 programs to choose from.
 - AJXX = Color Change mode, with 16 programs to choose from.
 - A-JF = Both Color Fade and Color Change modes running.
2. After selecting your desired mode, use the UP and DOWN buttons to scroll through the available programs. Note that this step is not applicable when running both modes together (option A-JF).
3. 2. Press the SET UP button until “SP.XX” is displayed. Now adjust the running speed of your desired program. Use the UP or DOWN button to adjust the speed between “SP.01” (slowest) and “SP.16” (fastest). Press the SET UP button to return to your desired Auto Run Mode.

ADJ Remote Activation: This function is used to activate or deactivate the IR sensor. When this function is activated, the fixture can be controlled using the ADJ UC IR. Please see the IR Remote Control section of this manual for detailed information.

1. Plug the fixture in and press the MODE button until “dXX” is displayed. “XX” represents either “on” or “oF”.
2. Press the SET UP button until “lrXX” is displayed. “XX” represents either “on” or “oF”.
3. Press the UP or DOWN buttons to either activate (“lrOn”) or deactivate (“lrOf”) the remote function.

DMX State: This mode defines how the fixture will behave in the event that the DMX signal is lost or interrupted, or the mode it will default to when power is first connected.

1. Plug the fixture in and press the MODE button until “d.XXX” is displayed. “XXX” represents the currently selected DMX address.
2. Press the SET UP button so that “nodn” is displayed. Use the UP and DOWN buttons to scroll through the DMX states.
 - “bLAC” (Blackout) - The unit will automatically go into stand by mode.
 - “LAST” (Last State) - The unit will stay in the last DMX set up.
 - “ProG” (Auto Run) - The unit will automatically go into Auto Run mode.
 - “nAnU” - The unit will automatically go into RGBA+UV dimmer mode.
3. Use the UP and DOWN buttons to find the desired DMX state, then press SET UP to confirm and exit.

SYSTEM MENU

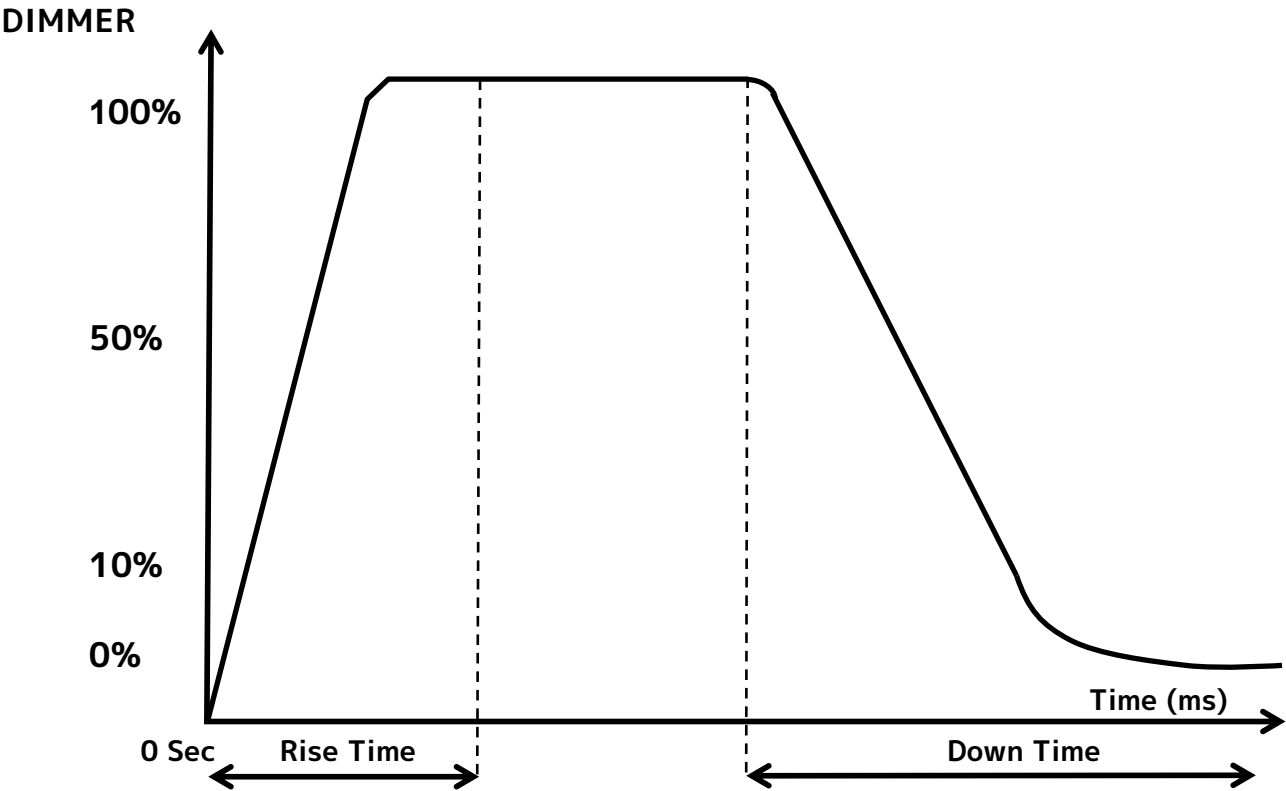
Dimmer Curve Setting:

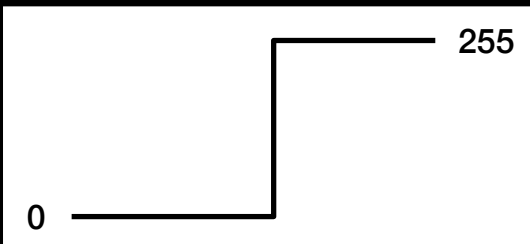
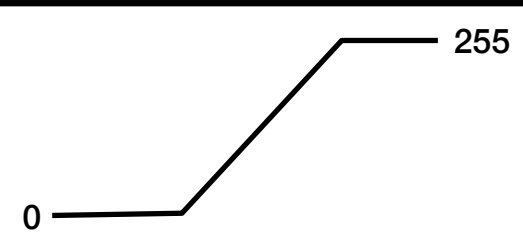
1. Plug the fixture in and press the MODE button until “d.XXX” is displayed, then press the SET UP button until “dr-X” is displayed. “X” represents a number between 0-4.
2. There are 5 dimmer curve settings to choose from. Please see the Dimmer Curve Chart section of this manual for the settings and their respective beginning and ending fade times.

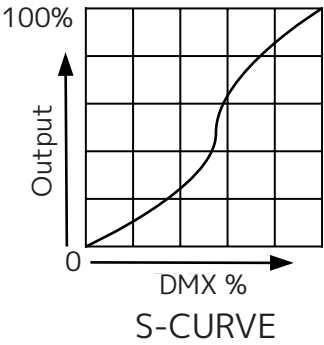
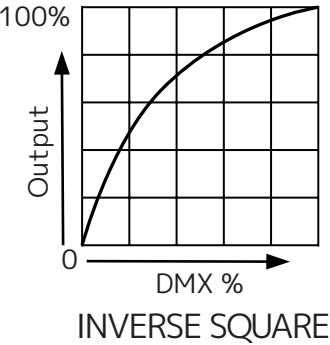
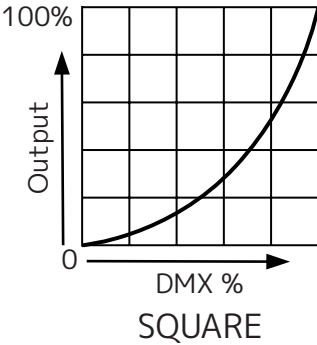
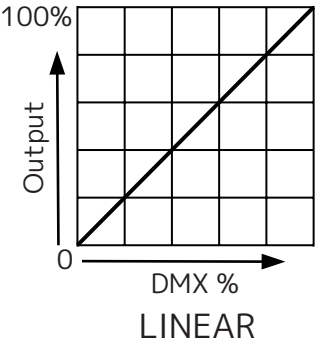
Default Running Mode: This returns all modes to their default settings.

1. Plug the fixture in and press the MODE button until “dXX” is displayed. “XX” represents either “on” or “off”.
2. Press the SET UP button until “dEFA” is displayed.
3. Press the UP and DOWN buttons simultaneously. Press the MODE button to exit.

DIMMER CURVE CHART



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



PRIMARY - SECONDARY CONFIGURATION

These units can be linked together to run in a primary-secondary setup, in which one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can act as a primary or as a secondary, but only one unit in a linked system can be programmed to act as the primary.

Primary-Secondary Connections and Settings:

1. Daisy chain your units via the XLR connectors on the rear of each unit. Use standard XLR data cables to link your units together. Remember that the male XLR connector is the input, and the female XLR connector is the output. The first unit in the chain (primary) will use the female XLR connector only, while the last unit in the chain will use the male XLR connector only.
2. Connect the first secondary unit to the primary.
3. Set the primary unit to your desired mode of operation. On each of the secondary units, press the MODE button until "SEcd" is displayed. The "SEcd" unit(s) will now follow the "Primary".

MULTIPLE UNIT POWER LINKING

The fixtures can be linked together using the IEC input and output sockets. The maximum number of units that can be linked in this manner is as follows:

- **20 fixtures @ 120V**
- **36 fixtures @ 240V**

After reaching the maximum number of linked fixtures, a new power outlet will be required in order to accommodate additional fixtures.

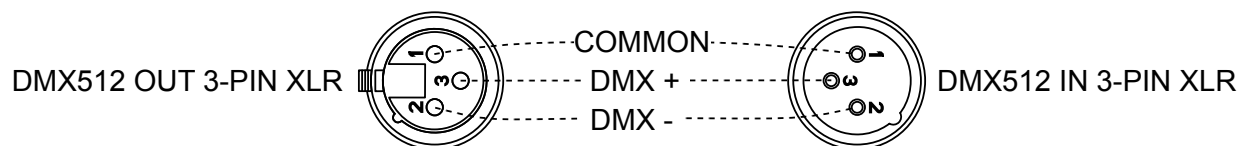
Note: Use caution when linking fixtures of other make and model types, as the power consumption of other fixture models may exceed the power rating of this device!

DMX SETUP

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

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

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



SPECIAL NOTE: LINE TERMINATION

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



DMX SETUP

5-Pin XLR DMX Connectors. The Mega Hex Par uses 3-pin DMX-512 data cables for DATA transmission in place of a 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adapter must be used, these adapters are readily available at most electric stores. The chart below details a proper cable conversion.

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

DMX ADDRESSING

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

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

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

In the case of the Mega Hex Par, when in 12 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 13 ($12 + 1$), the third unit to 25 ($13 + 12$), 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
7 Channels	1	8	15	23
8 Channels	1	9	17	25
11 Channels	1	12	23	34
12 Channels	1	13	25	37

DMX TRAITS

CHANNEL					DMX VALUES	FUNCTION
6CH	7CH	8CH	11CH	12CH		
1	1	1	1	1	000 - 255	Red , 0% to 100%
2	2	2	2	2	000 - 255	Green , 0% to 100%
3	3	3	3	3	000 - 255	Blue , 0% to 100%
4	4	4	4	4	000 - 255	White , 0% to 100%
5	5	5	5	5	000 - 255	Amber , 0% to 100%
6	6	6	6	6	000 - 255	UV , 0% to 100%
	7	7	7	7	000 - 255	Master Dimmer , 0% to 100%
		8	8	8		Strobing
					000 - 031	LED Off
					032 - 063	LED On
					064 - 095	Strobing, slow to fast
					096 - 127	LED On
					128 - 159	Pulse Strobing, slow to fast
					160 - 191	LED On
					192 - 223	Random Strobing, slow to fast
					224 - 255	LED On
			9	9		Program Selection Mode
					000 - 051	Dimming Mode
					052 - 102	Color Macro Mode
					103 - 153	Color Change Mode
					154 - 204	Color Fade Mode
					205 - 255	Sound Active Mode
			10	10		Color Macros/Programs
					000 - 255	Color Macro Mode , see Color Macro Chart section of this manual
						Color Change Programs
					000 - 015	Color Change 1
					016 - 031	Color Change 2
					032 - 047	Color Change 3
					048 - 063	Color Change 4
					064 - 079	Color Change 5
					080 - 095	Color Change 6
					096 - 111	Color Change 7
					112 - 127	Color Change 8
					128 - 143	Color Change 9
					144 - 159	Color Change 10
					160 - 175	Color Change 11
					176 - 191	Color Change 12
					192 - 207	Color Change 13
					208 - 223	Color Change 14
					224 - 239	Color Change 15
					240 - 255	Color Change 16

DMX TRAITS

CHANNEL					DMX VALUES	FUNCTION
6CH	7CH	8CH	11CH	12CH		
						Color Fade Programs
					000 - 015	Color Fade 1
					016 - 031	Color Fade 2
					032 - 047	Color Fade 3
					048 - 063	Color Fade 4
					064 - 079	Color Fade 5
					080 - 095	Color Fade 6
					096 - 111	Color Fade 7
					112 - 127	Color Fade 8
					128 - 143	Color Fade 9
					144 - 159	Color Fade 10
					160 - 175	Color Fade 11
					176 - 191	Color Fade 12
					192 - 207	Color Fade 13
					208 - 223	Color Fade 14
					224 - 239	Color Fade 15
					240 - 255	Color Fade 16
						Sound Active Programs
					000 - 015	Sound Active Mode 1
					016 - 031	Sound Active Mode 2
					032 - 047	Sound Active Mode 3
					048 - 063	Sound Active Mode 4
					064 - 079	Sound Active Mode 5
					080 - 095	Sound Active Mode 6
					096 - 111	Sound Active Mode 7
					112 - 127	Sound Active Mode 8
					128 - 143	Sound Active Mode 9
					144 - 159	Sound Active Mode 10
					160 - 175	Sound Active Mode 11
					176 - 191	Sound Active Mode 12
					192 - 207	Sound Active Mode 13
					208 - 223	Sound Active Mode 14
					224 - 239	Sound Active Mode 15
					240 - 255	Sound Active Mode 16

DMX TRAITS

CHANNEL					DMX VALUES	FUNCTION
6CH	7CH	8CH	11CH	12CH		
			11	11		Program Speed / Sound Sensitivity
					000 - 255	Program Speed , slow to fast
					000 - 255	Sound Sensitivity , least to most sensitive
				12		Dimmer Curves
					000 - 020	Standard
					021 - 040	Stage
					041 - 060	TV
					061 - 080	Architectural
					081 - 100	Theatre
					101 - 255	Default to factory settings

NOTES:

11Ch Mode:

- When Channel 9 is between the values of 0-51, Channels 1-6 are used, and Channel 8 will control strobing.
- When Channel 9 is between the values of 52-102, Channel 10 is in Color Macros Mode, and Channel 8 will control strobing.
- When Channel 9 is between the values of 103-153, Channel 10 is in Color Change Mode, and Channel 11 will control the color change speed.
- When Channel 9 is between the values of 154-204, Channel 10 is in Color Fade Mode, and Channel 11 will control the color fade speed.
- When Channel 9 is between the values of 205-255, Channel 10 is in Sound Active Mode, and Channel 11 will control the sound sensitivity.

12Ch Mode:

- When Channel 9 is between the values of 0-51, Channels 1-6 are used, and Channel 8 will control strobing.
- When Channel 9 is between the values of 52-102, Channel 10 is in Color Macros Mode, and Channel 8 will control strobing.
- When Channel 9 is between the values of 103-153, Channel 10 is in Color Change Mode, and Channel 11 will control the color change speed.
- When Channel 9 is between the values of 154-204, Channel 10 is in Color Fade Mode, and Channel 11 will control the color fade speed.
- When Channel 9 is between the values of 205-255, Channel 10 is in Sound Active Mode, and Channel 11 will control the sound sensitivity.

COLOR MACROS

DMX VALUES	COLOR MACRO	DMX VALUES	COLOR MACRO
0-3	Off	144-147	G+W+UV
4-7	Red	148-151	G+A+UV
8-11	Green	152-155	B+W+A
12-15	Blue	156-159	B+W+UV
16-19	White	160-163	B+A+UV
20-23	Amber	164-167	W+A+UV
24-27	UV	168-171	R+G+B+W
28-31	R+G	172-175	R+G+B+A
32-35	R+B	176-179	R+G+B+UV
36-39	R+W	180-183	R+G+W+A
40-43	R+A	184-187	R+G+W+UV
44-47	R+UV	188-191	R+G+A+UV
48-51	G+B	192-195	R+B+W+A
52-55	G+W	196-199	R+B+W+UV
56-59	G+A	200-203	R+B+A+UV
60-63	G+UV	204-207	R+W+A+UV
64-67	B+W	208-211	G+B+W+A
68-71	B+A	212-215	G+B+W+UV
72-75	B+UV	216-219	G+B+A+UV
76-79	W+A	220-223	G+W+A+UV
80-83	W+UV	224-227	B+W+A+UV
84-87	A+UV	228-231	R+G+B+W+A
88-91	R+G+B	232-235	R+G+B+W+UV
92-95	R+G+W	236-239	R+G+B+A+UV
96-99	R+G+A	240-243	R+G+W+A+UV
100-103	R+G+UV	244-247	R+B+W+A+UV
104-107	R+B+W	248-251	G+B+W+A+UV
108-111	R+B+A	252-255	R+G+B+W+A+UV
112-115	R+B+UV		
116-119	R+W+A		
120-123	R+W+UV		
124-127	R+A+UV		
128-131	G+B+W		
132-135	G+B+A		
136-139	G+B+UV		
140-143	G+W+A		

FUSE REPLACEMENT

Disconnect the unit from its power source and remove the power cord. Find that the fuse holder is located inside the power socket, then insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new fuse of the same rating. Please note that the fuse holder also has a holder for a spare fuse.

TROUBLESHOOTING

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

Unit not responding to DMX:

Check that the DMX cables are connected and wired correctly (pin 3 is “hot”; on some other DMX devices pin 2 may be “hot”). Also, check that all cables are connected to the right connectors, as the manner in which the inputs and outputs are connected can affect operation of the unit.

Unit does not respond to sound:

- Quiet or high pitched sounds will not activate the unit.
- Make sure that Sound Active mode is enabled.

CLEANING

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

- Use normal glass cleaner and a soft cloth to wipe down the outside casing.
- Clean the external optics with glass cleaner and a soft cloth every 20 days.
- Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

SPECIFICATIONS

Mega Hex Par Specifications:

- Vibrant slim flat black Par with 5 x 6-Watt, 6-IN-1 Hex (RGBWA+UV) LEDs
- HEX LEDs allow for a wider pallet of colors like hot pink, lime green and electric blue
- Smooth Color Mixing (fast or slow color change operation)
- ADJ's patented "sit-flat" design: Power & DMX Ins/Outs intelligently designed so the fixtures may be set flat on the ground or set inside truss
- Great as an architectural wall wash or for performance stages where traditional stage lighting emits a lot of heat onto performers
- 5 DMX Channel modes: 6, 7, 8, 11 or 12 channel modes
- 5 Operational modes: Auto Run Mode (16 Color Change Mode, 16 Color Fade Modes, & 1 Combined Mode), Sound Active Mode (16 Modes), RGBAW + UV Dimmer Mode, Static Color Mode (63 Colors), and DMX Controlled
- Digital DMX Display with 4-button menu for easy navigation
- Stand Alone or Primary/Secondary Configuration
- Beam Angle: 25-degrees
- 63 built-in Color Macros
- DMX-512 protocol
- Color strobe effect
- Linkable via 3-pin XLR cable
- With Wired Digital Communication Network
- Electronic Dimming: 0-100%
- Flicker Free
- Includes a scissor yoke to hang on truss, mount on a wall or set on the ground
- Long Life LEDs (50,000 hrs.)
- Power Draw: 30W Max
- IEC AC input and out put on the side of the fixture to daisy chain the power cords (link up to 30 fixtures)
- Includes the ADJ UC IR wireless remote
- Multi-voltage operation: AC 100V-240V 50/60Hz
- Dimensions (LxWxH): 10.25"x 10.25"x 4.25"/ 261x260x110mm
- Weight: 4 lbs./ 1.87 kg.

DIMENSIONAL DRAWINGS

