



ULTRA HEX BAR 12



User Manual

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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.

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!

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INTRODUCTION

Unpacking: Thank you for purchasing the Ultra Hex Bar 12 by ADJ Products, LLC. 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 appears to have been damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit have arrived intact. In the event that damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: The Ultra Hex Bar 12 is a DMX intelligent, LED bar fixture, and can be used in a stand alone mode or connected in a primary/secondary configuration. This par has six operating modes: Sound Active mode, Auto mode, Program mode, RGBWA + UV dimmer mode, Static Color mode, and DMX control mode.

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

Parts: To purchase parts online visit:

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

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

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CAUTION! To avoid the risk of shock or fire, do NOT expose this unit to rain or moisture! This unit is intended only for dry, indoor environments!

CAUTION! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, as doing so will void your manufacturer's warranty. In the unlikely event your unit may require service, please contact ADJ Products, LLC.

Do not discard the shipping carton in the trash. Please recycle when ever possible.

LIMITED WARRANTY (USA ONLY)

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending the product back—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 prepaid. 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 and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall incur no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are 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 serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because it was not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic check-up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. 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 Product, LLC be liable for any loss and/or damage, direct and/or consequential arising out of the use of, and/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.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- Non-LED Lighting Products = 1-Year (365 Days) (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, Power/Data Distribution, etc. excluding LED and lamps)
- Laser Products = 1-Year (365 Days) (excluding laser diodes which have a 6-Month Limited Warranty)
- LED Products = 2-Year (730 Days) (excluding batteries which have a 180 Day Limited Warranty)
- NOTE: 2-Year (730 Days) Limited Warranty ONLY applies to product purchased within the United States. StarTec Series = 1-Year (365 Days) (excluding batteries which have a 180 Day Limited Warranty)
- ADJ DMX Controllers = 2 Year (730 Days)
- American Audio Products = 1 Year (365 Days)

WARRANTY REGISTRATION

This device 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. 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.

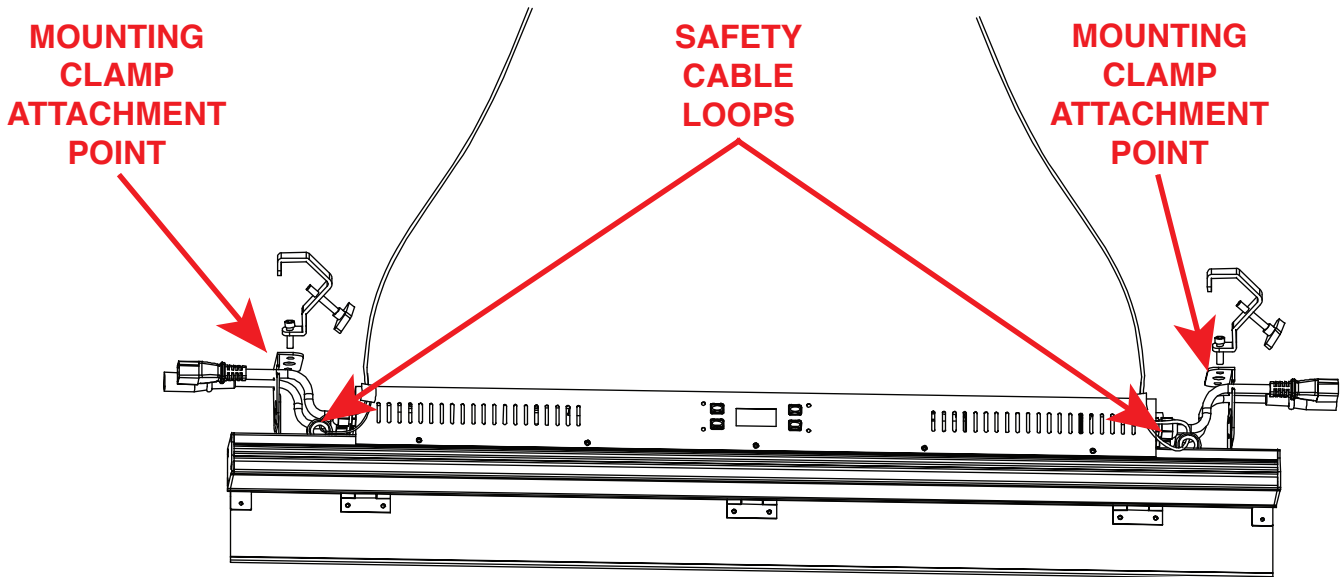
FEATURES

- Multi-Colors
- Six Operating Modes
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- 3-Pin DMX Connection
- 5 DMX Modes: 6, 7, 8, 12, & 36 Channel Mode.
- ADJ RFC compatible (Sold Separately)
- Power Cord Daisy Chain (see **Power Cord Daisy Chain** section of this manual)

INSTALLATION

CLAMP INSTALLATION

This fixture features a mounting clamp attachment points at the base of each foot, as well as two safety cable attachment points located on the back of the fixture (see the illustration below). 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 clamp attachment points and attach a separate **SAFETY CABLE** of the appropriate safety rating to each safety cable rigging point. **Please note that this device requires the use of TWO mounting clamps and TWO independently-secured safety cables for secure, stable installation!**



SAFETY CABLE



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

RIGGING

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

SAFETY PRECAUTIONS

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord is 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 event of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit with its cover removed.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6” (15cm) between this device and a wall.
- Do not attempt to operate this unit if it has been damaged in any way.
- This unit is intended for indoor use only, and use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit’s main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point at which they exit from the unit.
- Cleaning - The fixture should be cleaned only as recommended by the manufacturer. See the **Cleaning** section of this manual for details.
- Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug have been damaged.
 - B. Objects have fallen onto, or liquid has been spilled into, the fixture.
 - C. The fixture does not appear to operate normally or exhibits a marked change in performance.
 - D. The fixture has fallen and/or has been subjected to extreme handling.

SETUP

Power Supply: The ADJ Ultra Hex Bar 12 contains an automatic voltage switch, which will automatically sense the voltage when it is plugged into the power source. With this switch there is no need to worry about the correct power voltage, and this unit can be plugged in anywhere.

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 linking 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 Ultra Hex Bar 12 can be controlled via DMX protocol. The Ultra Hex Bar 12 has 5 DMX channel modes, and detailed information can be found in the **DMX Traits** section of this manual. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). 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 XLR connector at one end, and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.



Figure 1

SETUP

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

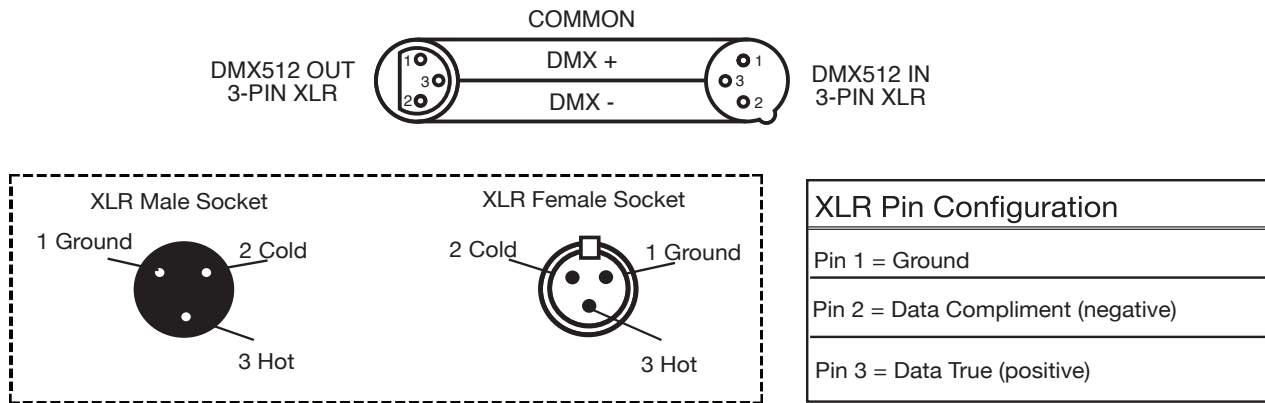
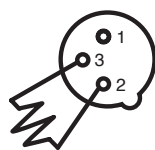


Figure 3

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.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

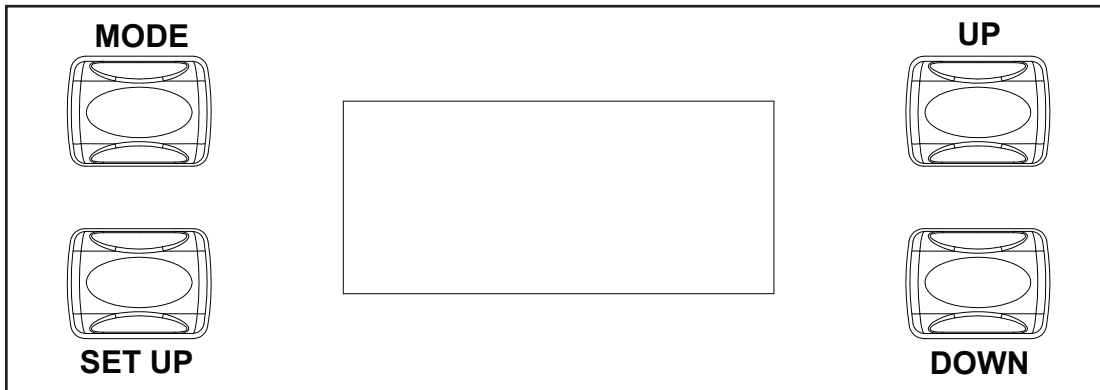
Figure 4

5-Pin XLR DMX Connectors. Some manufacturers use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line by using a cable adaptor, which can be purchased at most electronics 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

CONTROL PANEL

This fixture includes an easy to navigate control panel display, from which all necessary settings and adjustments can be made. During normal operation, pressing the **MODE** button will cycle through the different functions in the main system menu. Press the **SETUP** button to select the option displayed on the screen, and use the **UP** and **DOWN** buttons to adjust the settings for the selected option. Press the **SETUP** button once more to confirm the setting. Press the **MODE** button at any time to return to the main menu without making any adjustments.



OPERATING INSTRUCTIONS

Menu Lock:

You can set the menu to lock after 30 seconds. To unlock, press and hold the MODE button for at least 5 seconds. To set the menu to lock after 30 seconds, press the MODE button until "OTHER" is displayed. Press the SETUP button so that "LOCK:XXX" is displayed. "XXX" represents either ON or OFF. Press the UP or DOWN buttons so that ON is displayed. Now the menu will lock after 30s.

LED Display On/Off:

To set the LED display light to turn off after 30 seconds, press the MODE button until "OTHER" is displayed. Press the SET UP button so that "BLGT:XXX" is displayed. "XXX" represents either ON or OFF. Press the UP or DOWN buttons so that OFF is displayed. Now the display light will turn off after 30s. Press any button to turn the display on again.

Operating Modes:

The Ultra Hex Bar 12 has six operating modes:

- DMX control mode - This function will allow you to control each individual trait 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 create a custom color.
- Sound Active mode - The unit will react to sound, chasing through the built in programs.
- Program Mode - The unit will run 1 of 20 built-in programs.
- Auto Mode - The unit will run an auto program.
- Static Color Mode - There are 63 colors to choose from.

DMX Mode:

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights. The Ultra Hex Bar 12 has 5 DMX modes: 6 Channel mode, 7 Channel mode, 8 Channel mode, 12 Channel mode, and 36 Channel mode. Refer to the DMX Traits section of this manual for detailed information. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.

1. To run your fixture in DMX mode press the MODE button until "DMX MODE:" is displayed. Press the SET UP button so that ADDR:XXX" is displayed. "XXX" represents the current displayed address.
2. Use the UP or DOWN buttons to select your desired DMX address, then press the SETUP button to select your DMX Channel mode.
3. Use the UP or DOWN buttons to scroll through the DMX Channel modes until the desired mode is displayed. The available channel modes are 6-channel, 7-channel, 8-channel, 12-channel, and 36-channel. After you have chosen your desired DMX Channel mode plug in the fixture via the XLR connections to any standard DMX controller.

OPERATING INSTRUCTIONS

RGBWA & UV Dimmer Mode:

1. Plug the fixture in and press the MODE button until “MANUAL” is displayed.
2. When “RED: XXX” is displayed you are in Red dimming mode. 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 “GREEN: XXX” is displayed you are in Green dimming mode. Press the UP and DOWN buttons to adjust intensity.
4. When “BLUE: XXX” is displayed you are in Blue dimming mode. Press the UP and DOWN buttons to adjust intensity.
5. When “WHIT: XXX” is displayed you are in White dimming mode. Press the UP and DOWN buttons to adjust intensity.
6. When “AMBE: XXX” (Amber) is displayed you are in Amber dimming mode. Press the UP and DOWN buttons to adjust intensity.
7. When “UV: XXX” is displayed you are in UV dimming mode. Press the UP and DOWN buttons to adjust intensity.
8. After you have adjusted the colors to make your desired color you can then activate strobing by pressing the SET UP button to enter the strobe mode.
9. “STRO: XX” will be displayed, this is strobe mode. The strobe can be adjusted between “00” (flash off) to “15” (fastest flash).

Static Color Mode:

1. Plug the fixture in and press the MODE button until “CLR MACS” is displayed. Press the SET UP button so that “COLOR:XX” is displayed. “XX” represents the current displayed macro.
2. There are 63 colors to choose from. Use the UP and DOWN buttons to scroll through the 63 colors. After you have found your desired color, you can activate strobing by pressing the SET UP button to enter the strobe mode.
3. “STATIC STRO:XX” will be displayed, indicating that the unit is now in strobe mode. The strobing can be adjusted between “00” (flash off) to “15” (fastest flash).

Program Mode:

1. Plug the fixture in and press the MODE button until “PROG RUN PROG:XX” is displayed. “XX” represents the current program that is running.
2. Use the UP or DOWN buttons to scroll through the 20 programs. Once you have found your desired program, press the SET UP button to adjust the program speed.
3. “SPEED:XX” will be displayed. Use the UP or DOWN button to adjust the speed between “01” (slowest) and “16” (fastest). Once you have set your desired running speed, press the SET UP button to enter the fade adjustment mode.
4. “FADE: XX” will be displayed. Use the UP or DOWN button to adjust the speed between “01” (fastest) and “16” (slowest) or “00” (Off).
5. After you have adjusted the fade speed you can then activate strobing by pressing the SET UP button to enter the strobe mode.
6. “STRO: XX” will be displayed, indicating that the device is in strobe mode. The strobe can be adjusted between “00” (flash off) to “15” (fastest flash).

OPERATING INSTRUCTIONS

Auto Run Mode:

1. Plug the fixture in and press the MODE button until "AUTO RUN SPEED:XX" is displayed. "XX" represents the current auto run speed.
2. Use the UP or DOWN button to adjust the speed between "01" (slowest) and "16" (fastest). Once you have set your desired running speed, press the SET UP button to adjust the fade speed.
3. "FADE: XX" will be displayed. Use the UP or DOWN button to adjust the speed between "01" (fastest) and "16" (slowest) or "00" (Off).
4. Activate strobing by pressing the SET UP button to enter the strobe mode.
5. "STRO: XX" will be displayed, indicating that the device is in strobe mode. The strobe can be adjusted between "00" (flash off) to "15" (fastest flash).

Sound Active Mode:

In this mode the Ultra Hex Bar 12 will react to sound, and chase through the different colors.

1. Plug the fixture in and press the MODE button until "SOUND PRO: XX" is displayed. "XX" is the current sound sensitivity setting.
2. Use the UP or DOWN buttons to adjust the sound sensitivity. "00" is off, "01" is the least sensitive, and "16" is the most sensitive.
3. Activate strobing by pressing the SET UP button to enter the strobe mode.
4. "STRO: XX" will be displayed, indicating that the device is in strobe mode. The strobe can be adjusted between "00" (flash off) to "15" (fastest flash).

ADJ RFC:

This function is used to activate and deactivate the ADJ RFC control. When this function is activated you can control the fixture using the ADJ RFC (Sold Separately). Please see the **ADJ RFC Operation** section of this manual for ADJ RFC controls and functions.

1. Plug the fixture in and press the MODE button until "OTHER" is displayed.
2. Press the SET UP button until "RF: XX" is displayed. "XX" represents either "ON" or "OFF".
3. Use the UP or DOWN buttons to either activate the remote function (On) or deactivate it (Off).

DMX State:

This mode determines how the unit will behave when DMX signal is lost or interrupted. You can also set this as the operating mode you would like the unit to return to when power is applied.

1. Press the MODE button until "DMX MODE" is displayed.
2. Press the SET UP button so that "NO:XXXX" is displayed. "XXXX" represents the current DMX state that is displayed.
3. "NO: BLACK" (Blackout) - If the DMX signal is lost or interrupted, the unit will automatically go into stand by mode.
4. "NO: HOLD" (Last State) - If the DMX signal is lost or interrupted, the fixture will stay in the last DMX set up. If power is applied and this mode is set, the unit will automatically go into the last DMX set up.
5. "NO: AUTO" (Auto Run) - If the DMX signal is lost or interrupted, the unit will automatically go into Auto Run mode.
6. Use the UP and DOWN buttons to find your desired DMX state and press SETUP to confirm and exit.

OPERATING INSTRUCTIONS

Dimmer Curve:

This is used to set the dimming curve used with DMX mode. See page 21 for the different dimming curves.

1. Plug the fixture in and press the MODE button until “DMX MODE” is displayed.
2. Press the SET UP button until “DELAY: X” is displayed. “X” represents the displayed dimmer curve (0-4).
 - 0 - Standard
 - 1 - Stage
 - 2 - TV
 - 3 - Architectural
 - 4 - Theatre
3. Press the UP or DOWN button to scroll through and select your desired dimming curve.

PRIMARY-SECONDARY CONFIGURATION

This function will allow you to link units together to run in a primary-secondary mode, 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 can be programmed to act as the primary in a given system.

Primary-Secondary Connections and Settings:

Daisy chain your units via the XLR connector 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.

Set the primary unit to your desired mode of operation.

Connect the first secondary unit to the primary.

Set the secondary unit to the "DMX MODE ADDR" setting. Repeat with each secondary unit in the system. The secondary unit(s) will now follow the primary.

ADJ RFC OPERATION

The ADJ RFC remote (sold separately) has many different functions and allows you to control your Ultra Hex Bar 12 from a distance. Maximum range is 150 ft. To use the RFC, you must first activate the fixtures receiver, as described in the **Operating Instructions** section of this manual.

BLACKOUT - Pressing this button will blackout the fixture. Press and hold this button for at least 3 seconds to activate default mode. All modes will return to their default settings.

AUTO RUN - This button will activate the Auto Run mode.

- You can control the fade speed by pressing the FLASH button twice and then adjust the fade speed using the “+” and “-” buttons.
- Adjust the program speed of the Auto Run by pressing the SPEED button and then adjust the speed using the “+” and “-” buttons.
- Press the FLASH button once to activate strobe and adjust the strobe speed using the “+” and “-” buttons.

PROGRAM SELECTION - This button will activate 1 of 2 modes: Static Color mode or Program mode.

- Press this button to activate Static Color mode. Use the “+” and “-” buttons to scroll through the 63 colors. Once you have found your desired color, you can press the FLASH button to activate strobing. Use the “+” and “-” buttons adjust the strobe speed.
- Press this button to activate Program mode. Use the “+” and “-” buttons to scroll through the 20 different programs. Once you have found your desired program, you can press the SPEED button and use the “+” and “-” buttons to adjust the program speed. Adjust the fade speed by pressing the FLASH button twice and use the “+” and “-” buttons to adjust the fade speed. Press the FLASH button once to activate strobe and adjust the strobe speed using the “+” and “-” buttons.

FLASH - This button will activate the flash (strobe) effect. You can control the flash speed by pressing the “+” and “-” buttons. In Auto mode and Program mode, press this button twice to enter fade speed adjustment. Use the “+” and “-” buttons to adjust the fade speed.

SPEED - Press this button and use the “+” & “-” buttons to adjust the speed of the Built-In Programs.

SOUND ACTIVE - This button activates sound active mode. Use the “+” & “-” buttons to adjust the sound sensitivity level.

R G B W/A - Press any one of these buttons and then press the “+” or “-” to adjust the brightness. Press the Flash button to activate strobing and use the “+” or “-” buttons to adjust the strobe speed.

NOTE: Press the W/A button to scroll through White, Amber, and UV.

“+” and “-” - Use these buttons to adjust the flash rate, speed of the Auto Run and built-in programs, fade speed, sound sensitivity, and output intensity. These buttons are also used to scroll through the static colors and built-in programs.

DMX TRAITS

CHANNEL					DMX VALUES	FUNCTION
6CH	7CH	8CH	12CH	36CH		
1	1	1	1		000 - 255	Red , 0% to 100%
2	2	2	2		000 - 255	Green , 0% to 100%
3	3	3	3		000 - 255	Blue , 0% to 100%
4	4	4	4		000 - 255	White , 0% to 100%
5	5	5	5		000 - 255	Amber , 0% to 100%
6	6	6	6		000 - 255	UV , 0% to 100%
			7		000 - 255	Color Macros , see Color Macro Chart section of this manual
			8			Strobing
		7			000 - 031	Off
					032 - 063	LED On
					064 - 095	Strobing, slow to fast
					096 - 127	LED On
					128 - 159	Strobe Pulse, slow to fast
					160 - 191	LED On
					192 - 223	Random Strobing
				224 - 255	LED On	
	7	8	9		000 - 255	Master Dimmer , 0% to 100%
			10			Programs
					000	Off
					001 - 024	Program 1
					025 - 035	Program 2
					036 - 046	Program 3
					047 - 057	Program 4
					058 - 068	Program 5
					069 - 079	Program 6
					080 - 090	Program 7
					091 - 101	Program 8
					102 - 112	Program 9
					113 - 123	Program 10
					124 - 134	Program 11
					135 - 145	Program 12
					146 - 156	Program 13
					157 - 167	Program 14
					168 - 178	Program 15
				179 - 189	Program 16	
				190 - 200	Program 17	
				201 - 211	Program 18	
				212 - 222	Program 19	
				223 - 233	Program 20	
				234 - 255	Sound Active Programs	

CONTINUED ON NEXT PAGE

DMX TRAITS

CHANNEL					DMX VALUES	FUNCTION
6CH	7CH	8CH	12CH	36CH		
			11			Program Speed / Sound Sensitivity
					000 - 255	Program Speed, slow to fast - OR - Sound Sensitivity, least to most sensitive
			12			Dimmer Mode
					000 - 020	Standard
					021 - 040	Stage
					041 - 060	TV
					061 - 080	Architectural
					081 - 100	Theatre
					101 - 255	Default dimmer setting
				1	000 - 255	Red, Pixel 1 & 2, 0% to 100%
				2	000 - 255	Green, Pixel 1 & 2, 0% to 100%
				3	000 - 255	Blue, Pixel 1 & 2, 0% to 100%
				4	000 - 255	White, Pixel 1 & 2, 0% to 100%
				5	000 - 255	Amber, Pixel 1 & 2, 0% to 100%
				6	000 - 255	UV, Pixel 1 & 2, 0% to 100%
				7	000 - 255	Red, Pixel 3 & 4, 0% to 100%
				8	000 - 255	Green, Pixel 3 & 4, 0% to 100%
				9	000 - 255	Blue, Pixel 3 & 4, 0% to 100%
				10	000 - 255	White, Pixel 3 & 4, 0% to 100%
				11	000 - 255	Amber, Pixel 3 & 4, 0% to 100%
				12	000 - 255	UV, Pixel 3 & 4, 0% to 100%
				13	000 - 255	Red, Pixel 5 & 6, 0% to 100%
				14	000 - 255	Green, Pixel 5 & 6, 0% to 100%
				15	000 - 255	Blue, Pixel 5 & 6, 0% to 100%
				16	000 - 255	White, Pixel 5 & 6, 0% to 100%
				17	000 - 255	Amber, Pixel 5 & 6, 0% to 100%
				18	000 - 255	UV, Pixel 5 & 6, 0% to 100%
				19	000 - 255	Red, Pixel 7 & 8, 0% to 100%
				20	000 - 255	Green, Pixel 7 & 8, 0% to 100%
				21	000 - 255	Blue, Pixel 7 & 8, 0% to 100%
				22	000 - 255	White, Pixel 7 & 8, 0% to 100%
				23	000 - 255	Amber, Pixel 7 & 8, 0% to 100%
				24	000 - 255	UV, Pixel 7 & 8, 0% to 100%
				25	000 - 255	Red, Pixel 9 & 10, 0% to 100%
				26	000 - 255	Green, Pixel 9 & 10, 0% to 100%
				27	000 - 255	Blue, Pixel 9 & 10, 0% to 100%
				28	000 - 255	White, Pixel 9 & 10, 0% to 100%
				29	000 - 255	Amber, Pixel 9 & 10, 0% to 100%
				30	000 - 255	UV, Pixel 9 & 10, 0% to 100%
CONTINUED ON NEXT PAGE						

DMX TRAITS

CHANNEL					DMX VALUES	FUNCTION
6CH	7CH	8CH	12CH	36CH		
				31	000 - 255	Red, Pixel 11 & 12, 0% to 100%
				32	000 - 255	Green, Pixel 11 & 12, 0% to 100%
				33	000 - 255	Blue, Pixel 11 & 12, 0% to 100%
				34	000 - 255	White, Pixel 11 & 12, 0% to 100%
				35	000 - 255	Amber, Pixel 11 & 12, 0% to 100%
				36	000 - 255	UV, Pixel 11 & 12, 0% to 100%

NOTES:

In 12-channel mode:

- When Channel 7 is being used, Channels 1-6 will not work.
- When Channel 10 is between the values of 1-233, Channel 11 will control the program speed.
- When Channel 10 is between the values of 234-255, Channel 11 will control the sound sensitivity.

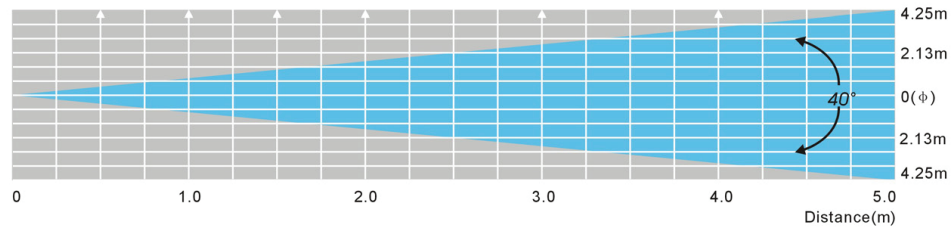
COLOR MACRO CHART

DMX VALUES	COLOR MACRO
000 - 003	Off
004 - 006	Red
008 - 011	Green
012 - 015	Blue
016 - 019	White
020 - 023	Amber
024 - 027	UV
028 - 031	R+G
032 - 035	R+B
036 - 039	R+W
040 - 043	R+A
044 - 047	R+UV
048 - 051	G+B
052 - 055	G+W
056 - 059	G+A
060 - 063	G+UV
064 - 067	B+W
068 - 071	B+A
072 - 075	B+UV
076 - 079	W+A
080 - 083	W+UV
084 - 087	A+UV
088 - 091	R+G+B
092 - 095	R+G+W
096 - 099	R+G+A
100 - 103	R+G+UV
104 - 107	R+B+W
108 - 111	R+G+A
112 - 115	R+B+UV
116 - 119	R+W+A
120 - 123	R+W+UV
124 - 127	R+A+UV

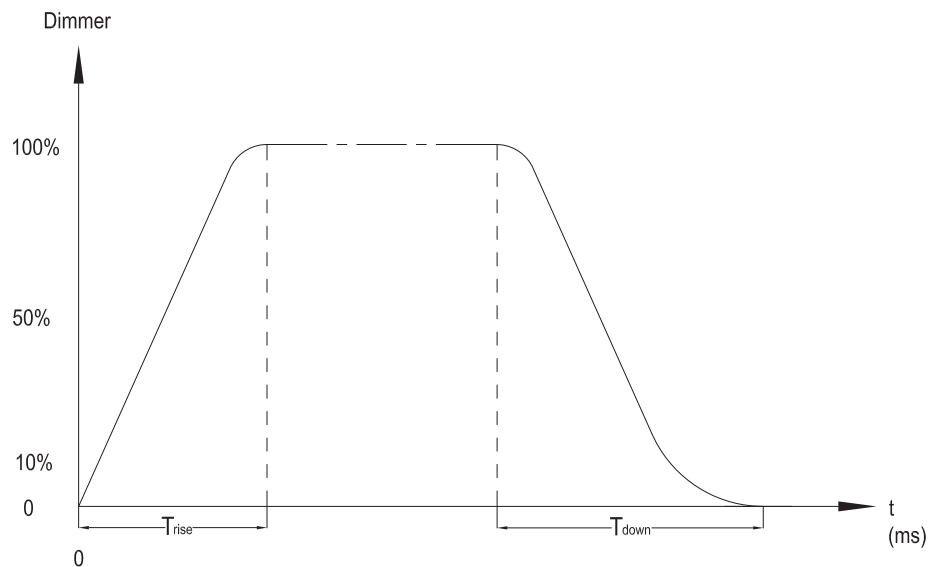
DMX VALUES	COLOR MACRO
128 - 131	G+B+W
132 - 135	G+B+A
136 - 139	G+B+UV
140 - 143	G+W+A
144 - 147	G+W+UV
148 - 151	G+A+UV
152 - 155	B+W+A
156 - 159	B+W+UV
160 - 163	B+A+UV
164 - 167	W+A+UV
168 - 171	R+G+B+W
172 - 175	R+G+B+A
176 - 179	R+G+B+UV
180 - 183	R+G+W+A
184 - 187	R+G+W+UV
188 - 191	R+G+A+UV
192 - 195	R+B+W+A
196 - 199	R+G+W+UV
200 - 203	R+B+A+UV
204 - 207	R+W+A+UV
208 - 211	G+B+W+A
212 - 215	G+B+W+UV
216 - 219	G+B+A+UV
220 - 223	G+W+A+UV
224 - 227	B+W+A+UV
228 - 231	R+G+B+W+A
232 - 235	R+G+B+W+UV
236 - 239	R+G+B+A+UV
240 - 243	R+G+W+A+UV
244 - 247	R+G+B+W+A+UV
248 - 251	G+B+W+A+UV
252 - 255	R+G+B+W+A+UV



PHOTOMETRIC CHART

R	D40	823	335	176	103.9	65.6	lux
G	D40	968	338	183	104.8	64.7	
B	D40	874	328	168	95.8	60.8	
W	D40	1303	552	269	148	96.8	
A	D40	529	201	95.7	53.9	35.4	
UV	D40	192	80.2	39.2	22.4	14.8	
RGBWA+UV	D40	3880	1680	810	478	286	



DIMMER CURVE CHART



Ramp Effect	0  255 OS (Fade Time)		0  255 1S (Fade Time)	
	T _{rise} (ms)	T _{down} (ms)	T _{rise} (ms)	T _{down} (ms)
Standard	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280

POWER CORD DAISY CHAIN

This feature allows the fixtures to be linked together using the IEC input and output sockets.

The maximum number of units that can be connected in this manner is 7 units.

Once this number has been reached, a new power outlet will be needed in order to accommodate additional units.

All linked fixtures must be of the same make and model type. Do NOT mix fixtures types!

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).

FUSE REPLACEMENT

Locate the fuse holder at the rear of unit next to the power cord, then use a phillips head screwdriver to remove the fuse holder. Remove the used fuse and replace with a new fuse of the same rating. Insert the fuse holder and fuse into the unit and secure the fuse holder back in place.

TROUBLE SHOOTING

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 way in which the input and outputs are connected does have an affect on the operation of the fixture(s).

Unit does not respond to sound:

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

SPECIFICATIONS

- Ultra bright, 40-inch indoor Linear Bar with 12 x 10W Ultra bright HEX (RGBWA + UV: 6-IN-1) LEDs
- Smooth RGBAW + UV color mixing
- Great as an architectural wall wash or for performance stages where traditional stage lighting emit a lot of heat onto performers
- 5 DMX Channel Modes: 6/7/8/12/36 channels
- 6 operational modes: Auto Run, Program Mode, Sound Active, RGBWA + UV Dimmer, Static Color and DMX-512 Mode
- Patent Pending Quick Align (Magnetic)
- Beam Angle: 40 degrees
- Flicker Free operation (No flickering on camera)
- Refresh Rate: 2.88KHz
- 64 built-in Color Macros
- 5 selectable Dim Curves (Standard, Stage, TV, Architectural & Theatre)
- LED pulse and strobe effect
- 2x8 Character LCD Display
- Electronic Dimming: 0-100%
- Includes mounting brackets to mount on a wall or set on the ground
- Compatible with the ADJ RFC remote with RF control up to 30 ft./ 10M (sold separately)
- Long Life LEDs (Rated at approximately 50,000 hrs.)
- Light output: 1680 LUX @ 2M; 478 LUX @4 Meters (40-degree beam)
- Power Draw: 90W
- Linkable: DMX via 3-pin XLR cable; Power via IEC daisy-chain power link (Up to 7 Ultra Hex Bar 12 fixtures)
- Multi-voltage operation: AC 100V-240V 50/60Hz
- Power cable length: 1.8 meter (IEC)
- Dimensions (LxWxH): 40.25" x 2.75" x 4.75" / 1020 x 70 x 122mm
- Weight: 11 lbs./ 4.74kg.

Auto Sensing Voltage: This fixture contains an automatic voltage switch, which will automatically sense the voltage when it is plugged into the power source.

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

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