

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 <u>www.adj.com</u> for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
12/01/2023	1.0	1.0	6 / 11 / 13 / 16 / 36 / 43 / 46 Ch	Initial release

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INTRODUCTION

Unpacking: Thank you for purchasing the UBL12H 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 ADJ UBL12H is an LED bar with 64-built in color macros, DMX capability, wireless remote control, and a variety of useful professional control tools for staging and event application. Its twelve (12) 20W ultra bright RGBAL+UV (Red, Green, Blue, Amber, Lime, and UV) LEDs allow for a wide array of colors to be produced, tunable color temperature control from 2300K to 9900K. This product is intended to be used by professionally trained personnel only and is not suitable for private use.

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

Parts: To purchase parts online visit:

http://parts.adj.com (US) http://www.adjparts.eu (EU)

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST Voice: 800-322-6337 | Fax: 323-582-2941 | support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET Voice: +31 45 546 85 60 | Fax: +31 45 546 85 96 | support@adj.eu

ADJ PRODUCTS LLC USA

6122 S. Eastern Ave. Los Angeles, CA. 90040 323-582-2650 I Fax 323-532-2941 I www.adj.com l info@adj.com

ADJ SUPPLY Europe B.V

Junostraat 2 6468 EW Kerkrade, The Netherlands +31 (0)45 546 85 00 I Fax +31 45 546 85 99 www.adj.eu I info@adj.eu

ADJ PRODUCTS GROUP Mexico

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

Warning! This unit is intended for indoor use only! Do not expose to rain or moisture!

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.

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

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

- Linear Color Temperature Control (2,300K to 9,900K)
- Smooth RGBAL+UV color mixing
- Horizontal Magnetic Alignment feature (Built-In)
- Compatible with the ADJ UC-IR24 remote. Operates at a distance of up to 32.8 feet (10 meters)
- RDM Compatible

INCLUDED ITEMS

- Power Cable (x1)
- UC-IR24 Remote Control (x1)
- 20° Diffusion Filter (x1)

SAFETY PRECAUTIONS



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 UV LIGHT FROM THE UV COLOR FILTER.

WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV COLOR FILTER.

AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES LESS THAN 11 feet (3.3m).

DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS.

DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT.

INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTOSENSITIVE MEDICATION, MAY EXPERIENCE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.

SAFETY PRECAUTIONS



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



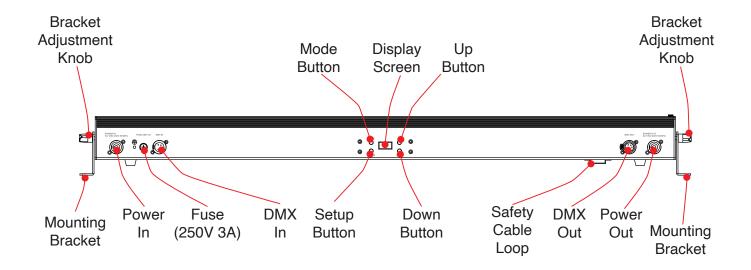
THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!

- Ambient operating temperature is -4°F to 113°F (-20°C to 45°C)!
- DO NOT TOUCH the fixture housing during operation. Disconnect the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- DO NOT shake the fixture, and avoid brute force when installing and/or operating the fixture.
- DO NOT operate the fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace immediately with a new one of the same power rating.
- 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 case of an internal short.
- DO NOT attempt to operate this unit if it has been damaged in any way.
- Disconnect from main power before making any type of connection.
- 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.
- 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.
- This device is intended for indoor use only! Outdoors usage voids all manufacturer's warranties.
- DO NOT remove the cover for any reason.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25mm, and always install fixture with an appropriately rated safety cable.
- Never plug this unit in to a dimmer pack.
- 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 where they exit from the unit.
- Cleaning The fixture should be cleaned only as recommended by the manufacturer.
- 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 liquids have 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.

OVERVIEW



INSTALLATION



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.

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight of the unit and any attached accessories without any deformation. The unit must be secured with a secondary safety attachment, e.g. an appropriately-rated safety cable.

Before rigging/mounting a single fixture 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.

Ambient operating temperature is range -4°F to 113°F (-20°C to 45°C). Do not operate this device when ambient temperature falls outside of this range.

Fixture(s) should be installed away from 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 that can hold 10 times the weight of the fixture.

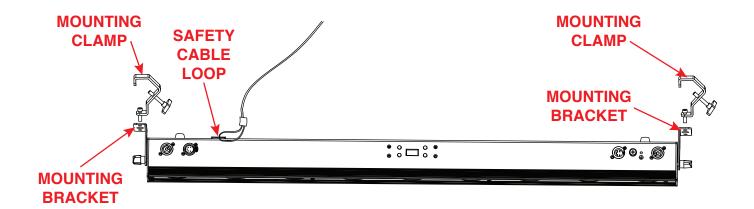
Overhead mounting requires extensive experience, including calculating working load limits, knowledge of installation material being used, and perodic safety inspection of all installation material as well as the unit itself. If you lack these qualifications, do not attempt the installation yourself.

The installation should be checked by a skilled person once a year.

INSTALLATION

CLAMP MOUNTING

This fixture features two mounting brackets for the attachment of mounting clamps. When mounting the fixture to a truss or any other suspended structure, be sure to secure an appropriate rated clamp (not included) to each mounting bracket. Insert a bolt of appropriate size through the bottom of the mounting clamp and the central hole on the mounting bracket, and secure them together with a matching nut. Additionally, the unit also features a safety cable loop on the top of the fixture (see the illustration below). Attach a separate **SAFETY CABLE** of the appropriate weight rating to the provided safety cable loop, then secure the other end to a suitable anchor point. Please note that two mounting clamps must be used to safely and securely install this fixture in a suspended environment.

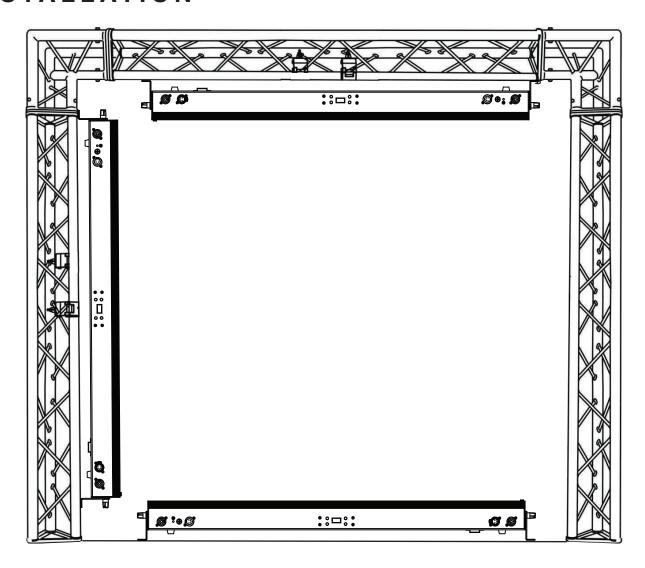




SAFETY CABLE:

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

INSTALLATION



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. Be sure this fixture is kept at least 12m (40ft) away from any flammable materials (decorations, etc). 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.

ALWAYS ATTACH A SA

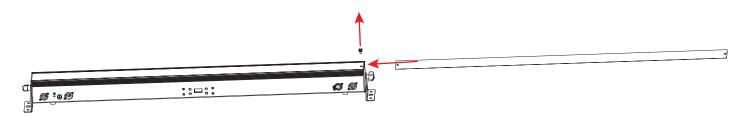


ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

ACCESSORY INSTALLATION

DIFFUSION FILTER

A removeable 20-degree diffusion filter is included with the fixture. To install this filter, simply remove the retaining screw on the side of the fixture's lens and slide the diffusion filter into the slot located in front of the lens. Align the hole in the diffusion filter with the retaining screw hole, then re-install and tighten the retaining screw to secure the filter in place. *Please note that the diffusion filter has holes at both ends to allow the filter to be installed facing either direction.*



In addition, a 1x40-degree diffusion filter is offered as an optional accessory that is sold separately. Please refer to the **Ordering Information** section of this manual.

WIRELESS OPERATION

To set up wireless control, follow the steps below:

- 1. Navigate to Personality > IR Remote in the system menu. Press SETUP to select this menu.
- 2. Use UP and DOWN to scroll to the "On" option, then press SETUP to confirm.

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.

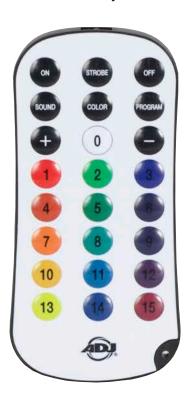


WIRELESS OPERATION

The unit can only be controlled when it has been set to Primary mode. The unit will NOT respond to commands when it has been set to Secondary mode.

UC IR24 CONTROLS

- On: Fixture turns on and reverts to the last running state
- Off: Fixture goes into stand by mode in a blackout state.
- **Strobe:** Actives strobe mode, using the currently selected color or program. The strobe rate can be adjusted using the + / buttons, or one of the 15 pre-set strobe speeds can be selected using the number keys. 1 is the slowest strobe speed, and 15 is the fastest.
- **Sound:** Activates sound mode, with displays triggered by microphone inputs. Microphone sensitivity can be adjusted using the + / buttons.
- Color: Activates color mode. Select a static color (0-15) using the number keys. The intensity for the set color can then be adjusted with the +/- buttons. Refer to the Color Mode Programs section of this manual for detailed information.
- **Program:** Activates interla program mode. Select an internal program (0-15) using the number keys. The selected program run speed can be adjusted with the + / buttons. *Note: 13 of the 15 buttons will activate a program for this unit.*
- + and buttons: Adjusts strobe rate, mic sensitivity, brightness intensity, or program run speed.
 The + / buttons can be repeatedly pressed to increase or decrease by individual level increments, or pressed and held to quickly make large adjustments at once.
- **Number Keys (0-15):** These buttons are used to select preset strobe speeds, static colors, and internal programs. Colors stored in the number keys can be edited from the units menu if desired.



IR BUTTON COLORS

IR DEFAULT VALUES

BUTTON	RED	GREEN	BLUE	LIME	AMBER	UV
0	0	0	0	255	0	0
1	255	0	0	0	0	0
2	0	255	0	0	0	0
3	0	0	255	0	0	0
4	231	68	0	0	0	0
5	0	117	58	0	0	0
6	17	0	75	0	0	44
7	255	83	0	0	63	0
8	0	109	70	0	0	0
9	32	0	75	0	22	35
10	0	0	0	0	255	0
11	0	114	160	0	0	0
12	82	0	35	0	0	74
13	255	255	0	0	255	0
14	0	75	136	0	0	0
15	81	0	35	0	0	115

EDITING IR BUTTON VALUES

These fixtures allow the user to create custom RGBAL values and assign them to the numbered keys (0-15) on the remote control. Follow the steps below:

- 1. In the main system menu, press MODE to navigate to "Personality," then press SETUP. Use the UP and DOWN buttons to scroll to "IR Button Colors," then press SETUP again.
- 2. Use the UP and DOWN buttons to scroll to the number of the remote button that you would like to use. Options range from "Button 0" to "Button 15." Press SETUP to select the button shown on the display screen.
- 3. Create a custom color for the button you have selected by using the UP and DOWN buttons to scroll through the color component options (Red, Green, Blue, Lime, Amber, UV). Press SETUP to select a color component option, then use the UP and DOWN buttons to adjust the intensity of that color component option. Selectable values range from 000 to 255. Repeat this process until you have set the desired Red, Green, Blue, Lime, Amber, and UV intensities to create your custom color.

NOTE: Once you have created and assigned a custom color value to a remote button, the default color for the remote button will be overridden. This means that the output color of the fixture may no longer resemble the color shown on the remote button. To return to the default color values, reset the unit to the default factory settings by navigating to Personality > Service > Factory Restore.

NOTE: If multiple units have been linked in a primary-secondary set up, the custom color values only need to be set up on the primary unit. The custom color settings will carry over automatically to any secondary units in the system.

REMOTE DEVICE MANAGEMENT (RDM)

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

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

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

FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
1900	0000-FFFF	1 /812	6Ch (1); 11Ch (2); 13Ch (3); 16Ch (4); 36Ch (5); 43Ch (6); 46Ch (7)

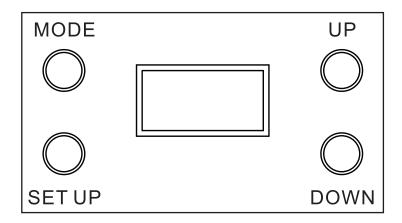
Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

Disc Unique Branch [0x0001]						
Disc Mute [0x0002]						
Disc Un Mute [0x0003]						
Supported Parameters [0x0050]						
Device Info [0x0060]						
Manufacturer Label [0x0081]						
Device Label [0x0082]						
Software Version Label [0x00C0]						
DMX Personality [0x00E0]						
DMX Start Address [0x00F0]						
Sensor Value [0x0201c]						
Curve [0x0343]						
Curve Description [0x0344]						
Identify Device [0x1000]						
DMX Fail Mode [0x0141]						

CONTROL PANEL

This unit features a display screen with a 4-button control pad, which can be used to easily adjust any device settings.

Pressing the MODE button will cycle through the various Main Menu options. When the desired Main Menu option is displayed on the screen, press the SETUP button to enter the sub-menu, then use the UP and DOWN buttons to scroll through sub-menu options. In some cases, there will be a second sub-menu that can be navigated in the same way.



SCREEN LOCK

The control panel screen will lock after a period of inactivity which can be set by navigating to Personality > Display > Lock. Default time is 30 seconds. To unlock the screen, press and hold the MODE button for 10 seconds.

SYSTEM MENU

	Address	001 - 512		Set DMX starting address	
		6Ch			
		11Ch			
		13Ch			
	Ch. Mode	16Ch		Select DMX chan-	
		36Ch		nel mode	
		43Ch		1	
		46Ch			
DMX SET		Hold		Unit holds last settings if DMX signal is lost or interrupted	
		Blackout		Unit defaults to blackout mode if DMX signal is lost or interrupted	
	No DMX	Manual		Unit defaults to manual settings if DMX signal is lost or interrupted	
		Internal Programs		Unit defaults to selected internal program if DMX signal is lost or interrupted	
	Primary/Second- ary Mode	Primary / Secondar	ry	Set unit as a pri- mary or a second- ary	
	IR Remote	On / Off		Activate or de- activate remote control function	
	RDM	On / <i>Off</i>		Activate or deactivate RDM	
PERSONALITY	Pixel Flip	Off = 1-6		Set pixel assignment configura-	
		On = 6-1		tion; refer to Pixel Grouping section	
		Standard		, , ,	
		Stage		1	
		TV		1	
	Dim Mode	Archi		Select dim mode	
		Theatre			
		Stage 2			
		Dim Speed 0.	.1s - 10s		
		CONTINUED ON	NEXT PAGE		
		CONTINUED ON	NEXT PAGE		

SYSTEM MENU

		Linear				
	Div. C	Square			0.1	
	Dim Curve	Inv. Squa.		Select dim curve		
		S. Curve			†	
		Save Dlay	1 - 10		Display goes into screen saver mode after set period of inactivity	
	Display	Lock	<i>Off,</i> 1min - 10mir	1	Dispaly controls lock after set pe- riod of inactivity; to unlock press and hold MODE for 10 sec	
			Yes		Inverted display orientation	
		Rotate Display	No		Standard display orientation	
		100	Auto		Automatically keep display upright	
DEDCOMALITY			Red	000 - 255		
PERSONALITY (continued)			Green	000 - 255]	
(continued)		Dutton 0	Blue	000 - 255]	
		Button 0	Amber	000 - 255	1	
			Lime	000 - 255	1	
			UV	000 - 255]	
			Red	000 - 255]	
			Green	000 - 255]	
		D. Hand	Blue	000 - 255	Configure color	
	IR Button Colors	Button 1	Amber	000 - 255	mix for each re-	
			Lime	000 - 255	mote button	
			UV	000 - 255]	
					1	
			Red	000 - 255]	
			Green	000 - 255]	
		Dutton 45	Blue	000 - 255]	
		Button 15	Amber	000 - 255	1	
			Lime	000 - 255]	
			UV	000 - 255]	
	Service	Passcode = 011	Restore	Yes / <i>No</i>	Return unit to default factory settings	
		CONTINUED C	ON NEXT PAGE			

SYSTEM MENU

	Red	000 - 255					
	Green	000 - 255]		
	Blue	000 - 255					
	Amber	000 - 255	000 - 255				
	Lime	000 - 255			Manually set each system param-		
	UV	000 - 255			eter; please note		
MANUAL	Clr Macro	000 - 063			that these settings		
	Clr Temp	No Function, 23	00K - 9900K		take precedent when no DMX		
	Clr Temp Pr	3900K, 4200K, 4	No Function, 2300K, 2600K, 2900K, 3200K, 3600K, 3900K, 4200K, 4500K, 4900K, 5500K, 6000K, 7000K, 8000K, 9000K, 9900K				
	Strobe	000 - 255]		
	Mastr Dim	000 - 255	000 - 255				
		Speed	Speed 000 - 255				
	Program 0	Fade	000 - 255				
		Sound	On / <i>Off</i>	001 - 016]		
		Speed 000 - 255			A divist is supersonatous		
INT PROGS	Program 1	Fade	000 - 255		Adjust parameters for each internal		
INT PROGS		Sound	On / Off	001 - 016	program		
		Speed	Speed 000 - 255				
	Program 13	Fade	000 - 255		_		
		Sound	On / <i>Off</i>	001 - 016			
	LED Tempera- ture	xxx	F/C		Current LED tem- perature		
INFO	RDM UID	xxxxxx	xxxxxx				
	Software Ver- sion	x.xx	x.xx				

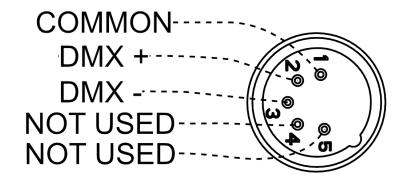
DMX SET UP

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.

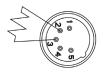
Data Cable (DMX Cable) Requirements (For DMX Operation): This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. 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 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.

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



DMX SET UP

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 reduce the risk 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 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.

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

CHANNEL MODE	UNIT 1 ADDRESS	UNIT 2 ADDRESS	UNIT 3 ADDRESS	UNIT 4 ADDRESS
6Ch	1	7	13	19
11Ch	1	12	23	34
13Ch	1	14	27	40
16Ch	1	17	33	49
36Ch	1	37	73	109
43CH	1	44	87	130
46Ch	1	47	93	139

DMX TRAITS

CHANNEL							DMX	
6Ch	11Ch	13Ch	16Ch	36Ch	43Ch	46Ch	VALUES	FUNCTION
1	1	1	1				000 - 255	All Red, 0% to 100%
2	2	2	2				000 - 255	All Green, 0% to 100%
3	3	3	3				000 - 255	All Blue, 0% to 100%
4	4	4	4				000 - 255	All Amber, 0% to 100%
5	5	5	5				000 - 255	All Lime , 0% to 100%
6	6	6	6				000 - 255	All UV, 0% to 100%
				1	1	1	000 - 255	Red 1, 0% to 100%
				2	2	2	000 - 255	Green 1, 0% to 100%
				3	3	3	000 - 255	Blue 1 , 0% to 100%
				4	4	4	000 - 255	Amber1, 0% to 100%
				5	5	5	000 - 255	Lime 1, 0% to 100%
				6	6	6	000 - 255	UV 1, 0% to 100%
				7	7	7	000 - 255	Red 2, 0% to 100%
				8	8	8	000 - 255	Green 2, 0% to 100%
				9	9	9	000 - 255	Blue 2, 0% to 100%
				10	10	10	000 - 255	Amber 2, 0% to 100%
				11	11	11	000 - 255	Lime 2, 0% to 100%
	İ			12	12	12	000 - 255	UV 2, 0% to 100%
				13	13	13	000 - 255	Red 3, 0% to 100%
				14	14	14	000 - 255	Green 3, 0% to 100%
				15	15	15	000 - 255	Blue 3, 0% to 100%
				16	16	16	000 - 255	Amber 3, 0% to 100%
				17	17	17	000 - 255	Lime 3, 0% to 100%
	İ			18	18	18	000 - 255	UV 3, 0% to 100%
	İ			19	19	19	000 - 255	Red 4, 0% to 100%
	İ			20	20	20	000 - 255	Green 4, 0% to 100%
				21	21	21	000 - 255	Blue 4, 0% to 100%
	İ			22	22	22	000 - 255	Amber 4, 0% to 100%
	İ			23	23	23	000 - 255	Lime 4, 0% to 100%
	İ			24	24	24	000 - 255	UV 4, 0% to 100%
	İ			25	25	25	000 - 255	Red 5, 0% to 100%
				26	26	26	000 - 255	Green 5, 0% to 100%
				27	27	27	000 - 255	Blue 5, 0% to 100%
				28	28	28	000 - 255	Amber 5, 0% to 100%
				29	29	29	000 - 255	<i>Lime 5</i> , 0% to 100%
				30	30	30	000 - 255	UV 5, 0% to 100%
				31	31	31	000 - 255	Red 6, 0% to 100%
				32	32	32	000 - 255	Green 6, 0% to 100%
				33	33	33	000 - 255	Blue 6, 0% to 100%
				•	CONTI	NUED C	N NEXT PA	

DMX TRAITS

CHANNEL						DMX	FUNCTION	
6Ch	11Ch	13Ch	16Ch	36Ch	43Ch	46Ch	VALUES	FUNCTION
				34	34	34	000 - 255	Amber 6, 0% to 100%
				35	35	35	000 - 255	<i>Lime 6,</i> 0% to 100%
				36	36	36	000 - 255	UV 6 , 0% to 100%
	7	7	7		37	37	000 - 255	Color Macros, see Color Macros Chart section of this manual
	8	8	8		38	38	000 - 255	Color Temperature, 2300K - 9900K Linear
								Color Temperature Presets
							000 - 010	No Function
							011 - 026	2300K
							027- 043	2700K
							044 - 060	3000K
						[061 - 076	3200K
							077 - 093	4000K
	9	9	9		39	9 39	094 - 110	4500K
	9	9	9		09		111 - 126	5000K
							127 - 143	5600K
							144 - 160	6500K
							161 - 176	7000K
							177 - 193	7500K
							194 - 210	8000K
							211 - 226	8500K
							227 - 255	9900K
								Shutter / Strobe
							000 - 031	LEDs Off
							032 - 063	LEDs On
							064 - 095	Strobe Effect, slow to fast
	10	10	10		40	40	096 - 127	LEDs On
							128 - 159	Pulse Effect in Sequences
							160 - 191	LEDs On
							192 - 223	Random Strobe Effect, slow to fast
							224 - 255	LEDs On
	11	11	11		41	41	000 - 255	Dimmer Intensity, 0% to 100%

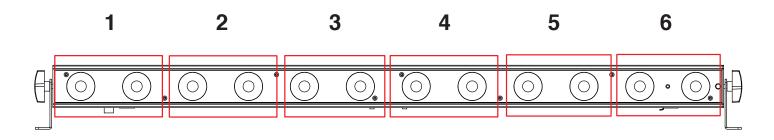
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DMX TRAITS

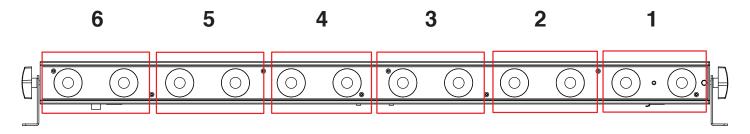
	CHANNEL						DMX	FUNCTION
6Ch	11Ch	13Ch	16Ch	36Ch	43Ch	46Ch	VALUES	FUNCTION
								Auto Programs
							000 - 010	Off
							011 - 026	Program 1
							027 - 043	Program 2
							044 - 060	Program 3
							061 - 076	Program 4
							077 - 093	Program 5
			12			42	094 - 110	Program 6
			12			42	111 - 126	Program 7
							127 - 143	Program 8
							144 - 160	Program 9
							161 - 176	Program 10
							177 - 193	Program 11
							194 - 210	Program 12
							211 - 226	Program 13
							227 - 255	No Function
			13			43	000 - 255	Auto Program Speed, slow to fast
			14			44	000 - 255	Auto Program Fade, 0% to 100%
								Dim Mode
							000 - 020	Default to Unit Setting
							021 - 040	Standard
							041 - 060	Stage
		12	15		42	45	061 - 080	TV
		12	15		42	45	081 - 100	Architectural
							101 - 120	Theatre
							121 - 140	Stage 2
							140 - 160	Dim Speed, fast to slow (0.1s to 10s)
							161 - 255	Default to Unit Setting
								Dim Curves
							000 - 020	Square
		13	16		43	46	021 - 040	Linear
		13	10		40	+0	041 - 060	Inv. Squa
							061 - 080	S. Curve
							081 - 255	No Function

PIXEL GROUPING

PIXEL FLIP OFF



PIXEL FLIP ON



COLOR MACROS CHART

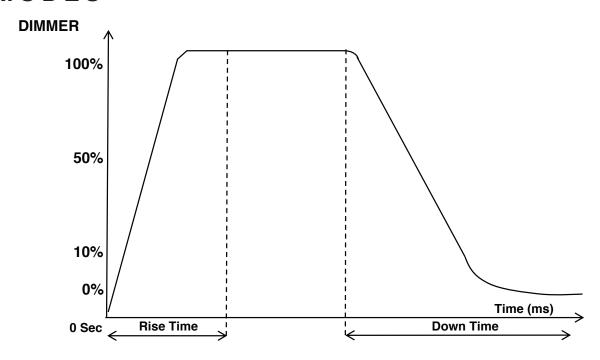
DMX VALUES	COLORS
000 - 003	Off
004 - 007	Red
008 - 011	Green
012 - 015	Blue
016 - 019	Lime
020 - 023	Amber
024 - 027	UV
028 - 031	R+G
032 - 035	R+B
036 - 039	R+L
040 - 043	R+A
044 - 047	R+UV
048 - 051	G+B
052 - 055	G+L
056 - 059	G+A
060 - 063	G+UV
064 - 067	B+L
068 - 071	B+A
072 - 075	B+UV
076 - 079	L+A
080 - 083	L+UV
084 - 087	A+UV
088 - 091	R+G+B
092 - 095	R+G+L
096 - 099	R+G+A
100 - 103	R+G+UV
104 - 107	R+B+L
108 - 111	R+B+A
112 - 115	R+B+UV
116 - 119	R+L+A
120 - 123	R+L+UV
124 - 127	R+A+UV

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

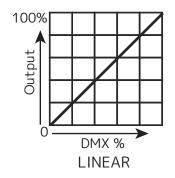
DIM SPEEDS

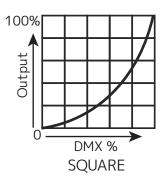
DMX VALUES	DELAY TIME
141	0.1 sec
142	0.2 sec
143	0.3 sec
144	0.4 sec
145	0.5 sec
146	0.6 sec
147	0.7 sec
148	0.8 sec
149	0.9 sec
150	1.0 sec
151	1.5 sec
152	2.0 sec
153	3.0 sec
154	4.0 sec
155	5.0 sec
156	6.0 sec
157	7.0 sec
158	8.0 sec
159	9.0 sec
160	10.0 sec

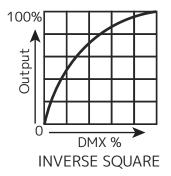
DIM MODES

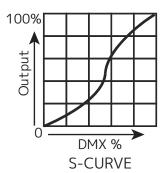


	0 sec Fade Time		1 sec Fade Time	
Dimming Curve Ramp Effect	0 —	255	0	255
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660









PRIMARY-SECONDARY SET UP

This function allows you to link units together to run in a Primary-Secondary set-up, 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 be configured to act as a Primary or as a Secondary, but only one unit in a given 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 panels 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 ouput. The first unit in the chain (primary) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
- 2. Use the display screen and control panel to navigate to Personality > Primary/Secomdary Mode. Select this sub-menu using the SETUP button, and use the UP and DOWN buttons to toggle between "Primary" and "Secondary". Press SETUP to confirm your selection.
- 3. Repeat Step 2 for each unit in the system. Make sure that only one unit is designated as the Primary, while all other units are designated as Secondaries.
- 4. The secondary units will now follow the behavior of the primary unit.

NOTES:

- Only one unit should be configured as the primary, while all the other units should be configured as secondaries.
- All units should be set to the same DMX channel mode.
- If fixtures fail to sync, verify that all settings mentioned above are the same, then power all devices off, then switch them on again to re-establish the link.

MULTI UNIT POWER LINKING

This features allows you to connect the fixtures to one another using the power cable input and output sockets.

The maximum number of units that can be linked in this manner is as follows:

- 17 units when running on 120V power.
- 32 units when running on 230V power.

DO NOT EXCEED THIS MAXIMUM NUMBER WHEN POWER LINKING UNITS!

All linked units must be of the same make and model type. Do not mix and match units!

MAINTENANCE GUIDELINES



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 regularly with a soft cloth to avoid dirt/debris accumulation.

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

MAINTENANCE

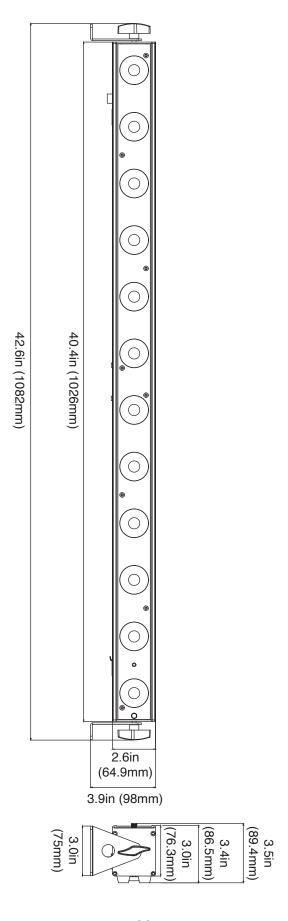
Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

Please refer to the following points during routine inspections:

- A. 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.
- B. 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.
- C. 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 to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- D. Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

DIMENSIONAL DRAWINGS



SPECIFICATIONS

Light Source:

- 12 x 20W Ultra bright (Red, Green, Blue, Amber, Lime and UV) LEDs
- Long Life LEDs (Rated at approximately 50,000 hrs.)
- 17° beam angle
- CRI >90
- Pixel Pitch: 85.5mm

Features:

- Linear Color Temperature Control (2,300K to 9,900K)
- Smooth RGBAL+UV color mixing
- Horizontal Magnetic Alignment feature (Builtln)
- Compatible with the ADJ UC-IR24 remote. Operates at a distance of up to 32.8 feet (10 meters)
- **RDM Compatible**

Control:

- Linear Color Temperature Control (2,300K to 9,900K)
- OLED Display with 4-buttons
- 7 DMX Channel Modes: 6, 11, 13, 16, 36, 43, & 46 Channels
- 6 Groups x2 RGBAL+UV LED pixels controllable via DMX in 36, 43, & 46 channel modes
- 5 operational modes: Auto Run, Program Mode, Sound Trigger, RGBAL+UV Manual, and DMX-512 Mode
- LED Refresh Rate: 1.9KHz
- 64 built-in Color Macros
- 6 selectable Dim Modes (Standard, Stage, TV, Architectural, Theatre & Stage 2)
- 4 selectable Dim Curves (Square, Linear, Inv. Square & S. Curve)
- Built-In Microphone for sound trigger
- LED pulse and strobe effect
- Electronic Dimming: 0-100

Connections:

- Linkable: DMX via 5-pin XLR cable
- Indoor locking power In/Out to daisy chain power

Electrical:

- Multi-voltage operation: AC 100V-240V 50/60Hz
- Power Draw: 61W
- Daisy-chain power link (Up to 17 UBL12H's can be linked @120V and up to 32 UBL12H's can be linked @230V)

Dimensions / Weight:

- Dimensions (LxWxH): 2.96" x 42.60" x 4.2" (75x1082x106.7mm)
- Weight: 7.50 lbs./ 3.4kg.

Environment:

- Operational Temperature Range: -4°F ~ 113°F (-20°C ~ 45°C)
- Storage Temperature: -22°F ~ 113°F (-30°C ~ 45°C)

Optional Accessories:

(1) 1x40° Linear Diffusion Lens

Certifications / IP Rating:

- CE / ETL / FCC
- **IP20**







OPTIONAL ACCESSORIES

ORDER CODE (US)	ORDER CODE (EU)	DESCRIPTION
UBL912	TBD	1x40° Linear Diffusion Lens

FCC STATEMENT

Please note that changes or modifications of this product is not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

