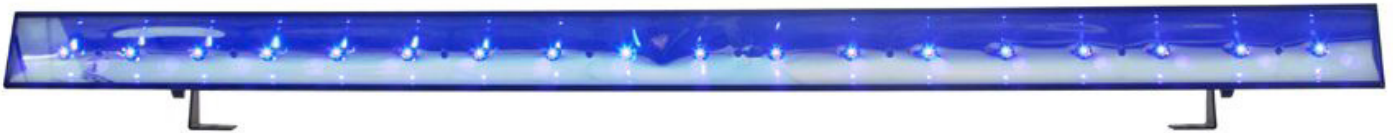




ECO UV BAR DMX



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.

Date	Document Version	Software Version	DMX Channels	Notes
07/2014	1.0	1.0	1 / 2 / 3 channels	Initial Release.
10/2016	1.1	N/C	No change	Updated Safety Precautions, Operation Instruction, UC IR Airstream App Control, Specifications.
01/21/2022	1.2	N/C	No change	Updated UC IR Airstream App Control and Operating Instructions
04/25/2023	1.3	N/C	No change	Removed Airstream Information

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 Eco UV Bar DMX by ADJ Products, LLC. Every Eco UV Bar DMX 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 that 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 Eco UV Bar DMX is part of ADJ's continuing pursuit for creating high quality affordable fixtures. The Eco UV Bar DMX is now DMX controllable, and includes an IR Remote for easy control. This unit is great for clubs, bands, roller rinks, arenas, performance stages, theatrical productions, and any other events or venues requiring special effects lighting.

Customer Support: ADJ Products, LLC provides a toll free customer support line to provide set up help and to answer any questions that may arise during set up or initial operation. You may also visit us on the web at www.adj.com for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

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CUSTOMER SUPPORT

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

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST

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ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET

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REPLACEMENT PARTS please visit parts.adj.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit 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. **PLEASE recycle the shipping carton when ever possible.**

GENERAL INSTRUCTIONS

To optimize the performance of this product, please read these operating instructions carefully and familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit for future reference.

WARRANTY REGISTRATION

The Eco UV Bar DMX carries a 2 year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase and warranty. You may also register your product online at www.adj.com. All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by a return authorization (R.A.) number. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Please contact ADJ customer support for an R.A. number.

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 at regular intervals.
- 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).

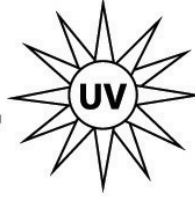
SAFETY PRECAUTIONS

- 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 onto your unit.
- Be sure that the voltage of the wall power outlet match the required voltage of 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 the event of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover for any reason. There are no user serviceable parts inside.
- Never operate this unit with the 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. 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. Pay particular attention to the point where the power cords 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 has been damaged.
 - B. Objects have fallen onto, or liquid has been spilled into, the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

SAFETY PRECAUTIONS

! 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 ULTRAVIOLET (UV) LIGHT AT A WAVELENGTH OF 397NM - 430NM.

WEAR PROPER EYE AND SKIN PROTECTION.

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 (3.3m).

DO NOT OPERATE FIXTURE WITH DAMAGED OR MISSING EXTERNAL COVER 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.

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.

DMX SET UP

POWER SUPPLY

The Eco EV Bar DMX 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 by most lighting and controller manufacturers 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. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. 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:

The Eco EV Bar DMX can be controlled via DMX-512 protocol, and features a single channel mode with 3 DMX channels. The DMX address is set electronically using the controls on the rear panel of the unit. Your unit and your DMX controller require an approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). We recommend AccuCable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable be purchased at almost all professional sound and 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

DMX SET UP

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 in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and result in erratic behavior.

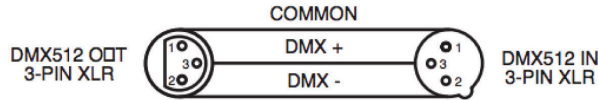


Figure 2

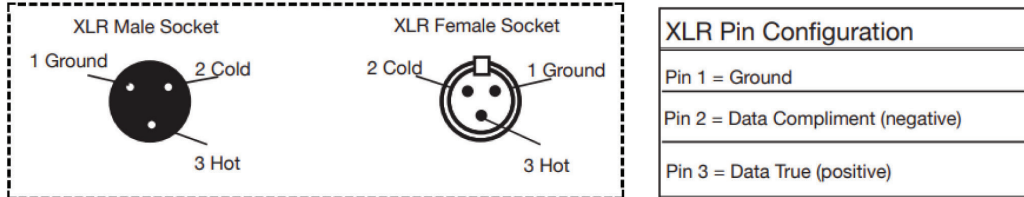
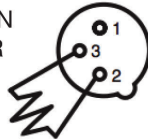


Figure 3

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 reduce the risk of erratic behavior.

Figure 4

DMX512 IN
3-PIN XLR



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.

5-PIN XLR DMX CONNECTORS. Some manufacturers use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line, a cable adaptor must be used. These adaptors 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

OPERATING INSTRUCTIONS

LED Display On/Off:

To set the LED display to turn off after 10 seconds of inactivity, press the MODE button until “dS-x” is displayed. “X” represents either “1” or “2”. Press the UP or DOWN buttons so that “dS-2” is displayed. Now the display will disappear after 10s. Press any button to turn the display on again.

- “dS-1” = LED display on at all times.
- “dS-2” = LED display shuts off after 10 seconds of inactivity.

DMX Mode:

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. The Eco UV Bar DMX has 3 DMX Channels.

- This function will allow you to control the fixture’s traits with a standard DMX 512 controller.
- To run your fixture in DMX mode press the MODE button until “1XXX” is displayed. “XXX” represents the currently selected address. Use the UP and DOWN buttons to select your desired DMX address.
- Please see the DMX Traits section of this manual for detailed information.
- After you have set your desired DMX address, connect the fixture to any standard DMX controller using the device’s XLR connections.

Strobe Mode:

1. Plug the fixture in and press the MODE button until “2-XX” is displayed. “XX” represents a number between 1-20.
2. The strobe speed can be adjusted between 1 (slowest) to 20 (fastest).
3. Use the UP and DOWN buttons to adjust the speed as desired.

Output Intensity:

1. Plug the fixture in and press the MODE button until “UXXX” is displayed. “XXX” represents a number between 000-255.
2. The output intensity can be adjusted between 000 (off) to 255 (brightest).
3. Use the UP and DOWN buttons to adjust the output intensity as desired.

UV Fade Mode:

1. Plug the fixture in and press the MODE button until “AFXX” is displayed. “XX” represents a number between 1-3.
2. The fade speed can be adjusted between 1 (slowest) to 3 (fastest).
3. Use the UP and DOWN buttons to adjust the fade speed as desired.

Delay:

1. Plug the fixture in and press the MODE button until “dr-X” is displayed. “X” represents a number between 0-4 (0 = No Delay, 1 = Standard, 2 = Stage, 3 = Architectural, 4 = Stage 2).
2. Use the UP and DOWN buttons to adjust the delay as desired.

Note: The delay mode works in conjunction with Channel 3 values 101-255

DMX CONTROL

This function allows you to use a universal DMX-512 controller to control the chases and patterns, dimmer and strobe. A DMX controller allows you to create unique programs tailored to your individual needs. The Eco UV Bar DMX has 3 DMX Channels. See the **DMX Traits** section of this manual for detailed information.

- This function will allow you to control the fixture's traits with a standard DMX 512 controller.
- To run your fixture in DMX mode, set your desired DMX address according to the directions shown in the **Operating Instructions** section of this manual, as well as the set-up specifications included with your DMX controller.
- Plug in the fixture via the XLR connections to any standard DMX controller.
- For longer cable runs (more than a 100 feet) use a terminator on the last fixture.

Primary-Secondary CONFIGURATION

This function will allow you to link up to 16 units together and operate without a controller. The units will be sound activated. One unit will act as the controlling unit (Primary) and the others will react to the controlling units programs (Secondary). Any unit can act as a Primary or as a Secondary.

1. Using approved DMX data cables, daisy chain your units together via the XLR connectors on the rear of the units. 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, and the last unit in the chain will use the male XLR connector only. For longer cable runs, we suggest the use of a terminator at the last fixture.
2. On the Primary unit, set your desired settings.
3. Set the Secondary units to DMX mode setting. The Secondary units should now follow the Primary.

UC IR CONTROL

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.



UC IR REMOTE

The unit should respond to commands issued from the UC IR Remote. **NOTE: 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 IR CONTROL

WIRELESS FUNCTIONS

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.

- **STAND BY** - Pressing this button will blackout the fixture.
- **FULL ON:** Press this button to fully light up the unit.
- **FADE/GOBO:** Press this button to activate UV fade mode. Press button 1 for slow fade, button 2 for medium fade, or button 3 for fast fade.
- **DIMMER + / DIMMER -:** Use these buttons to adjust the output intensity when UV color mode is active.
- **STROBE:** Press this button to activate strobing. Press button '1' to select slow strobe speed, button '2' to select medium strobe speed, button '3' to select fast strobe speed, or button '4' to select fastest strobe speed.
- **COLOR:** Press this button to activate UV color mode. Adjust the output intensity using the "DIMMER +" and "DIMMER -" buttons.
- **1-9 BUTTONS:** When in strobe, use buttons 1-4 to adjust the strobe rate. In fade mode, use buttons 1-3 to adjust the fade speed.
- **SOUND ON / SOUND OFF:** These buttons have no defined function for this device.
- **SHOW 0:** This button has no defined function for this device.

DMX TRAITS

CHANNEL	DMX VALUE	FUNCTION
1	000 - 255	<i>Dimmer</i> , 0% to 100%
2	000 - 255	<i>Strobing</i> , slow to fast
3		<i>Dimmer Curve</i>
	000 - 020	No Dimmer Curve
	021 - 040	Dimmer Curve 1
	041 - 060	Dimmer Curve 2
	061 - 080	Dimmer Curve 3
	081 - 100	Dimmer Curve 4
	101 - 255	Delay Mode Control (works in conjunction with Delay Mode in the main settings menu)

POWER CORD DAISY CHAIN

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

The maximum number of devices that can be connected in this manner is 10 fixtures.

After this number has been reached, an additional power outlet must be used for additional fixtures. All linked fixtures must be of the same make and model type. **DO NOT mix fixtures.**

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 checkup. 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)

SPECIFICATIONS

Model:	Eco UV Bar DMX
Working Position:	Any safe working position
Voltage:	100V ~ 240V, 50/60 Hz
Power Cord Daisy Chain:	10 fixtures maximum
LEDs:	18 x 3W UV LEDs
Beam Angle:	120 Degrees
Power Consumption:	60W
Weight:	6 Lbs / 3 Kgs
Dimensions:	39.5" (L) x 2.5" (W) x 4.75" (H) 1000mm (L) x 60mm (W) x 115mm (H)
Colors:	UV
Warranty:	2 Year (730 days)

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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