



# **ECO UV BAR DMX**

## User Manual

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**Europe Energy Saving Notice**

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

**DOCUMENT VERSION**



Due to additional product features and/or enhancements, an updated version of this document may be available online. Please check [www.adj.com](http://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	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
05/19/2026	1.4	N/C	No Change	Update Specifications

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# GENERAL INFORMATION

## INTRODUCTION

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

## UNPACKING

This 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 be damaged, carefully inspect the device for damage and be sure all accessories necessary to operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

## CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs. Also visit [forums.adj.com](https://forums.adj.com) with questions, comments or suggestions.

**Parts:** To purchase parts online visit:

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

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## LIMITED WARRANTY

For up-to-date warranty information regarding your device, please visit ADJ's warranty information page online or scan the QR codes below.



USA: <https://www.adj.com/pages/warranty-information>



EU: [https://www.adj.eu/terms\\_and\\_conditions](https://www.adj.eu/terms_and_conditions)

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

# FEATURES

The ADJ ECO UV Bar DMX adds excitement to any light show performance. The redesigned ECO UV BAR DMX offers the hassle free use of LED and the user control of DMX-512. This ultraviolet LED fixture is great for performance stages, theatrical productions, special effects installations, and mobile light show. Take it to the next level with this LED bar. Watch people be in awe from the amazing lighting effects you created.

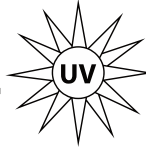
The ECO UV BAR DMX offers users more flexibility and control with built-in DMX-512 protocol (3 DMX channels), a 3-Button DMX display, and included IR remote control. This fixture requires very little maintenance because its LEDs are rated at 50,000 hours. That leaves you to handle any other task instead of being worried about your LED bar.

If you want durability, value, and great build quality then look no further. You will love the way the light shines and the endless possibilities you can make with it. Experience the difference by adding this to your shows arsenal.

# SAFETY GUIDELINES



**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!**

**THIS 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 (3.3 M).**

**DO NOT OPERATE THE FIXTURE WITH A DAMAGED OR MISSING EXTERNAL 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.**

**CAUTION - THIS FIXTURE PRODUCES HIGH INTENSITY ULTRAVIOLET LIGHT. AVOID DIRECT EYE AND SKIN EXPOSURE. WEAR PROPER EYE AND SKIN PROTECTION. SEE MANUAL FOR SAFETY INSTRUCTIONS.**

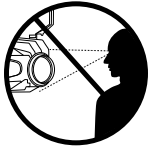
# SAFETY GUIDELINES



**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 operate this device when the ambient temperature falls outside this range.
- **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. 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 it 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 approximately 6" (15 cm) between the 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" (15 cm) between this device and a wall.
- This device is intended for indoor use only! Outdoor usage voids all manufacturer's warranties.
- **DO NOT** remove the cover for any reason.
- When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25mm, and always install the fixture with an appropriately rated safety cable.
- Never plug this unit into a dimmer pack.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in a safe and stable manner.
- 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 has 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.

# INSTALLATION GUIDELINES



**DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!**

Fixture installation must follow all local, national, and applicable country commercial electrical and construction codes and regulations.

When installing the unit, the trussing or area of installation must be able to support at least 10 times the weight of the unit and any attached accessories without deformation. The unit must be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Before rigging or mounting any fixture to a 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 range is **-4°F to 113°F (-20°C to 45°C)**. Do not operate this device when the ambient temperature falls outside this range.

Fixtures 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 the installation materials being used, and periodic safety inspection of all installation hardware 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.

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

# 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.

Press the **UP** or **DOWN** buttons until “dS-2” is displayed. The display will now turn off after 10 seconds.

Press any button to reactivate it.

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

## DMX Mode

This mode allows the fixture to be controlled by a standard DMX-512 controller.

1. Press the **MODE** button until “1XXX” is displayed (XXX = current DMX address).
2. Use the **UP** or **DOWN** buttons to select your desired DMX starting address.
3. Connect the fixture to a DMX controller using a 3-pin XLR cable. Refer to the DMX Traits section for detailed channel information.

## Strobe Mode

1. Press the **MODE** button until “2-XX” is displayed.
2. Use the **UP** or **DOWN** buttons to adjust the strobe speed from 1 (slowest) to 20 (fastest).

## Output Intensity

1. Press the **MODE** button until “UXXX” is displayed.
2. Use the **UP** or **DOWN** buttons to adjust the UV output intensity from 000 (off) to 255 (maximum brightness).

## UV Fade Mode

1. Press the **MODE** button until “AFXX” is displayed.
2. Use the **UP** or **DOWN** buttons to adjust the fade speed from 1 (slowest) to 3 (fastest).

## Delay

This setting works in conjunction with DMX Channel 3 values 101–255.

1. Press the **MODE** button until “dr-X” is displayed.
2. Use the **UP** or **DOWN** buttons to select the desired delay mode:
  - 0 = No Delay
  - 1 = Standard
  - 2 = Stage
  - 3 = Architectural
  - 4 = Stage 2

# PRIMARY / SECONDARY CONFIGURATION

This function allows multiple VBAR fixtures to be linked together so they operate in unison. In a Primary/Secondary configuration, one fixture acts as the controlling unit (Primary), while the other fixtures (Secondary) copy its operation.

Any fixture can be set as the Primary, but only one fixture should be designated as the Primary in the chain.

## Connections

1. Daisy-chain the fixtures using standard 3-pin XLR DMX cables.
  - The Male XLR connector is the input.
  - The Female XLR connector is the output.
2. Connect the first Secondary fixture to the Primary fixture.
3. Continue linking additional Secondary fixtures as needed.

## Settings

1. Set the first fixture in the chain as the Primary by selecting your desired operating mode (Sound Active, Auto, Static Color, RGBA Dimmer, etc.).
2. All connected Secondary fixtures will automatically follow the Primary fixture's operation.
3. Only the Primary fixture needs to be programmed. Secondary fixtures do not require individual mode settings.

**Note:** Primary/Secondary linking uses the DMX data line. Make sure all fixtures are properly cabled and that the Primary fixture is set to a non-DMX mode for synchronized standalone operation.

# UC IR REMOTE CONTROL

The Eco UV Bar DMX can be controlled using the **UC IR** infrared remote (sold separately). The fixture will only respond to remote commands when it is set to **Primary** mode. It will not respond when set to Secondary mode.

To use the remote, aim it at the front of the fixture from a maximum distance of 30 feet (9 meters).

## UC IR Remote Functions

**STAND BY** – Blackouts the fixture.

**FULL ON** – Turns the fixture to full output.

**FADE/GOBO** – Activates UV Fade mode. Use buttons 1, 2, or 3 to select slow, medium, or fast fade speed.

**DIMMER + / DIMMER -** – Adjusts the output intensity when UV mode is active.

**STROBE** – Activates strobing. Use buttons 1–4 to select slow, medium, fast, or fastest strobe speed.

**COLOR** – Activates UV color mode. Adjust intensity using the DIMMER + and DIMMER - buttons.

**1–9 BUTTONS** – In Strobe mode, buttons 1–4 adjust strobe rate. In Fade mode, buttons 1–3 adjust fade speed.

**SOUND ON / SOUND OFF** – These buttons have no function on this fixture.

**SHOW 0** – This button has no function on this fixture.



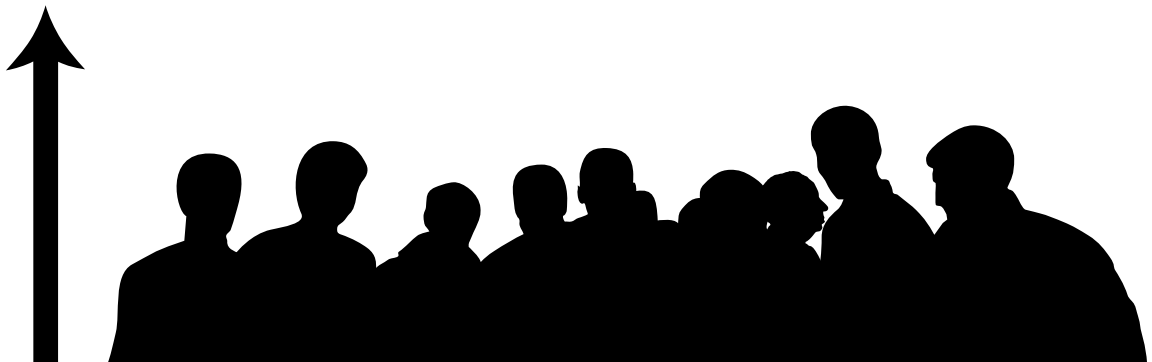
## Installation Recommendations:

With the many factors that affect and/or interrupt a wireless signal such as walls, glass, metal, objects, and people, it is highly recommended to:

- Install devices a minimum of 9.8 ft. (3m) above audiences and/or ground level where practical.
- Adjust the wireless antenna in a vertical upright position
- Position devices in direct line of sight of the controlling device

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

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



# DMX SETUP

## DMX-512

DMX is short for Digital Multiplex. It is a universal protocol used for communication between intelligent lighting fixtures and controllers. A DMX controller sends data instructions from the controller to the fixture. DMX data is transmitted as serial data that travels from fixture to fixture via the DMX “IN” and DMX “OUT” connectors.

## DMX Linking

DMX allows fixtures of different makes and models to be linked together and operated from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper data transmission, use the shortest possible cable runs when linking multiple fixtures. The physical order of the fixtures in the DMX chain does not affect addressing. A fixture assigned a DMX address of 1 can be placed anywhere in the chain.

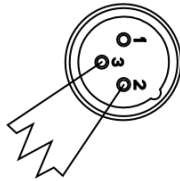


## Data Cable Requirements

The ECO UV BAR DMX can be controlled using the DMX-512 protocol and features eight DMX channel modes. This fixture uses 3-pin XLR connectors for DMX input and output. Use high-quality shielded DMX cables rated at 110–120 ohms. Cables should have a male XLR connector on one end and a female XLR connector on the other. DMX cables must be daisy-chained and cannot be split.

## Line Termination

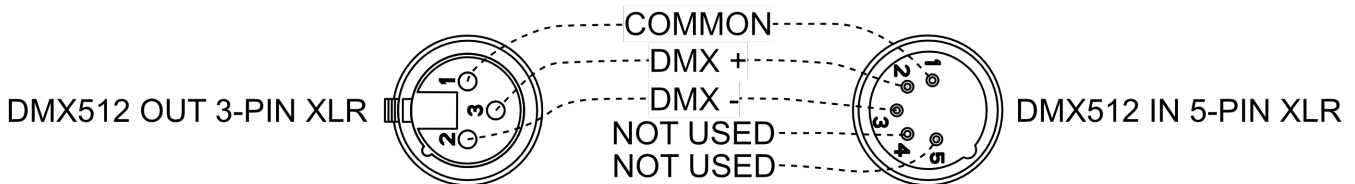
When using long cable runs, a terminator may be required on the last fixture in the chain to prevent erratic behavior. A terminator is a 110–120 ohm, 1/4 watt resistor connected between pins 2 and 3 of a male XLR connector. Using an ADJ terminator (part number Z-DMX/T) is recommended.



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.

## 5-Pin to 3-Pin XLR Conversion

Some DMX controllers and cables use 5-pin XLR connectors. When connecting a 5-pin cable or controller to this fixture, use the following pin conversion:



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

# DMX SETUP

## DMX ADDRESSING

All fixtures should be given a DMX starting address when operating with a DMX controller. This ensures that the correct fixture responds to the correct control signal. The starting DMX address is the channel number from which the fixture begins to “listen” to the digital control signal sent from the DMX controller.

You can set the same starting address for all fixtures or assign different addresses to each fixture. Setting all fixtures to the same DMX address will cause them to react identically. If you set each fixture to a different DMX address, each unit will respond independently.

The Eco UV Bar DMX uses a 3-channel DMX mode. When assigning addresses, leave enough space between fixtures so their channels do not overlap.

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
3 Channel	1	4	77	10

### How to Set the DMX Address

1. Press the **MODE** button until “1XXX” is displayed (XXX = current address).
2. Use the **UP** or **DOWN** buttons to set your desired starting DMX address (001–512).
3. Connect the fixture to your DMX controller using a 3-pin XLR cable.

**Note:** When using multiple fixtures, always calculate addresses by adding the number of channels used (in this case, +3) to the previous fixture’s starting address.

# DMX TRAITS

CHANNEL	DMX VALUES	FUNCTION
1	000 - 255	<b>Dimmer</b> , 0% to 100%
2	000 - 255	<b>Strobing</b> , slow to fast
3		<b>Dimmer Curve</b>
	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)

## DAISY-CHAIN POWER-LINKING

The ECO UV BAR DMX is equipped with an IEC power input and output located on the side of the fixture. This allows multiple units to be daisy-chained together using standard IEC power cords for convenient and organized power distribution.

Up to 10 ECO UV BAR DMX fixtures may be linked in a single daisy-chain. The actual maximum number of units that can be safely connected depends on the total power draw of all linked fixtures, the gauge and length of the power cables, and the capacity of the electrical circuit and circuit protection.

It is strongly recommended to use high-quality, grounded IEC cables rated for the appropriate amperage. Exceeding the recommended daisy-chain limit may result in voltage drop, overheating, tripped breakers, or damage to the fixtures and electrical system.

## CLEANING AND MAINTENANCE



**DISCONNECT THE UNIT FROM ITS POWER SOURCE BEFORE PERFORMING ANY CLEANING OR MAINTENANCE PROCEDURES!**

**ALWAYS ALLOW THE FIXTURE TO COOL FOR AT LEAST 15 MINUTES BEFORE PERFORMING ANY CLEANING OR MAINTENANCE!**

### CLEANING

Frequent cleaning is recommended to ensure proper function, optimized UV output, and extended operational life. Clean the external lens surface periodically with a soft, lint-free cloth to prevent dirt and debris accumulation that could reduce output intensity.

**NEVER** use alcohol, solvents, or ammonia-based cleaners on the lens or housing, as these can damage the UV-transmissive materials.

### MAINTENANCE

There are no user-serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void the manufacturer's warranty. All service and repairs must be performed by qualified service personnel.

During routine inspections:

- Verify that all screws and fasteners remain securely tightened.
- Inspect power and data cables for damage or wear; replace immediately if compromised.
- Keep all ventilation slots and air inlets free of debris to ensure proper cooling.
- Periodically examine the LED lens for clouding, yellowing, or damage that could affect UV performance.

### FUSE REPLACEMENT

Disconnect the unit from its power source and remove the power cord. Locate the fuse holder inside the power socket and gently pry it out with a flat-head screwdriver. Remove the bad fuse and replace it with a new one of the same rating. The fuse holder includes a spare fuse slot — do not confuse the two when installing the new fuse.

# SPECIFICATIONS

- Bright, high output DMX-512 Ultraviolet Bar with 18 x 3-Watt UV LEDs
- Great for performance stages, theatrical productions and special effects installations
- 2 Operational modes: Manual Operation and DMX-512 Mode
- 3 DMX Channels
- Beam Angle: 120°
- LED Strobe effect, dimming On/Off via wireless remote or DMX control
- Includes adjustable mounting brackets for wall/ceiling mount or to set on the floor for wall washing
- Includes UC IR wireless remote
- 3-Button LCD display
- Linkable via 3-pin DMX In/Out cable
- With Wired Digital Communication Network
- IEC AC input and output on rear to daisy chain power (Up to 10 ECO UV BAR DMX fixtures)
- Long Life LEDs (Rated at approximately 50,000 hrs.)
- Power Draw: 60W
- Multi-voltage operation: AC 100V-240V 50/60Hz
- Wavelength: 395-405nm
- Refresh Rate: 1KHz
- Dimensions (LxWxH): 39.5" x 2.5" x 4.75" / 1000 x 60 x 115mm
- Weight: 6 lbs. / 2.4 kgs
- cETLus Approved (Control #5014475)



