

# UV COB CANNON

## 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
11/01/2016	1.0	1.00	1/2/3	Initial Release
05/11/2026	1.1	N/A	N/A	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)

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

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

Voice: 800-322-6337 | [support@adj.com](mailto:support@adj.com)

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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

If you want to have to create the proper experience for your audience or crowd you need lighting fixtures you can trust to produce high quality light, be easily controllable with lots of features, and be durable and portable so you can take it anywhere and know it's going to last for years to come.

With the UV COB Cannon LED Ultraviolet Wash Light from ADJ you can create the perfect atmosphere to have your clientele coming back night after night. Ample and well controlled lighting is key to an easily enjoyed performance; the UV COB Cannon excels in providing you with powerful light effects with built-in features that allow for the greatest ease of operation.

Made from high quality materials and utilizing solid state electronics the UV COB Cannon is built to last and save you money on repairs. Now you can create the permanent professional setup of your dreams, or the professional mobile production of a lifetime with the powerful lighting services of the UV COB Cannon LED Light Fixture from ADJ, an affordable and lasting investment.

- 3 Operating Modes: Sound Activated Manual Mode & DMX Control
- Electronic Dimming 0-100%
- Built-in Microphone
- DMX-512 protocol
- Locking 3-Pin XLR Connector In/Out
- 3 DMX Modes: 1 Channel Mode, 2 Channel Mode, and 3 Channel Mode
- 5 Selectable Dimmer Modes
- Power Cord Daisy Chain

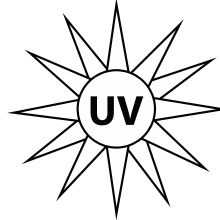
## **INCLUDED ITEMS:**

- Locking PowerCon power cable
- Safety cable
- Dual yoke / mounting bracke

# 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! THE FIXTURE EMITS A HIGH-INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV COLOR FILTER. WEAR PROPER EYE AND SKIN PROTECTION.**

**AVOID PROLONGED PERIODS OF EXPOSURE TO THE UV COLOR FILTER.**

**AVOID WEARING WHITE CLOTHING AND/OR USING UV PAINTS ON THE SKIN.**

**AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES LESS THAN 11 FEET (3.3M).**

**DO NOT OPERATE THE 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 PHOTSENSITIVE MEDICATION MAY EXPERIENCE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.**

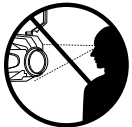
# SAFETY GUIDELINES



**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 range is -22°F to 113°F (-30°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. 20" (0.5m) 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 20" (0.5m) between this device and a wall.
- **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.

# INSTALLATION GUIDELINES



**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 range is **-4°F to 104°F (-20°C to 40°C)**. Do not operate this device when ambient temperature falls outside 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 periodic 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.

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.

**The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.**

**The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 2.32 m is not expected.**

# OPERATING INSTRUCTIONS

## LED Display On/Off

To set the LED display to turn off automatically after 10 seconds of inactivity:

1. Press the **MODE** button until “0010” or “0020” is displayed.
2. Use the **UP** or **DOWN** buttons to toggle between the two options.
3. Press **SAVE** to confirm your selection.
  - “0010” = LED display remains on at all times.
  - “0020” = LED display turns off after 10 seconds of inactivity.

## Operating Modes

The UV COB Cannon has three operating modes:

- DMX Control Mode – Allows full control of the fixture via a standard DMX-512 controller.
- UV Dimmer Mode – Manual control of UV intensity, strobe, and dimmer curves.

Sound-Active Mode – The fixture reacts to sound, automatically chasing through built-in programs.

## DMX Mode

1. Press the **MODE** button until the desired DMX channel mode is displayed:
  - “XXX1” = 1-Channel Mode
  - “XXX2” = 2-Channel Mode
  - “XXX3” = 3-Channel Mode
2. Press **SAVE** to confirm the selection.
3. Connect the fixture to a DMX controller using standard 3-pin XLR cables.

Refer to the DMX Traits for detailed channel functions.

## UV Manual Dimmer Mode

1. Press the **MODE** button until “XXX4” is displayed (UV Dimmer Mode).
2. Use the **UP** and **DOWN** buttons to adjust UV intensity (0–100%).
3. Press **MODE** until “XXX5” is displayed to enter Strobe Mode, then use **UP** and **DOWN** to adjust the strobe speed.
4. Press **MODE** until “XXX6” is displayed to adjust the dimmer curve. Use **UP** and **DOWN** to scroll through the available curves (see Dimmer Mode Chart on page 12).

## Sound-Active Mode

1. Press the **MODE** button until “0017” is displayed.
2. The fixture will now react to sound.
3. To turn Sound-Active Mode off, press **UP** or **DOWN** until “0027” is displayed.

## Dimmer Mode Setting

1. Press the **MODE** button until “00X6” is displayed (X = current dimmer curve).
2. Use the **UP** and **DOWN** buttons to select the desired dimmer curve: 0 = Standard
  - 1 = Stage
  - 2 = TV
  - 3 = Architectural
  - 4 = Theatre

# PRIMARY / SECONDARY CONFIGURATION

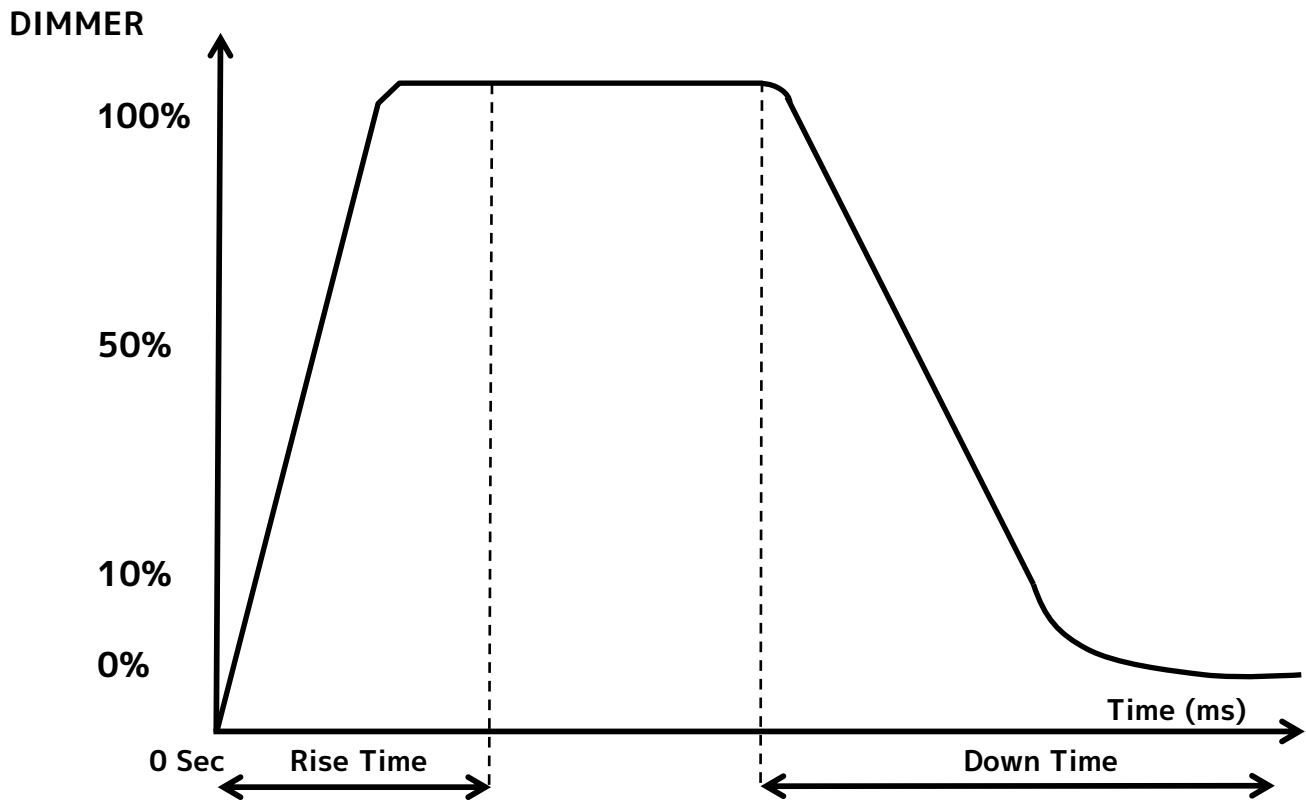
This function allows you to link multiple UV COB Cannon fixtures together so they operate in synchronization. In Primary/Secondary mode, one fixture acts as the controlling (Primary) unit while the others (Secondary) follow the built-in programs of the Primary unit. Only one unit can be set as Primary.

## Connections and Settings

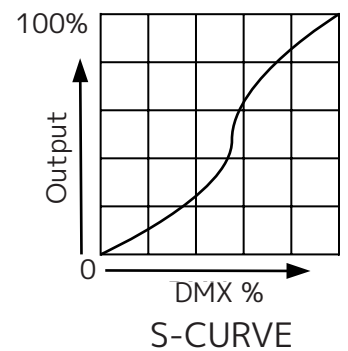
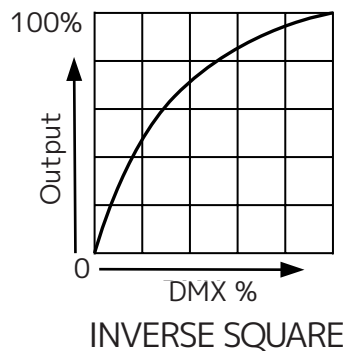
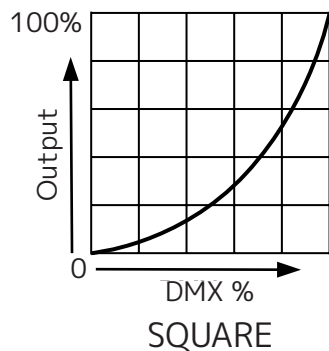
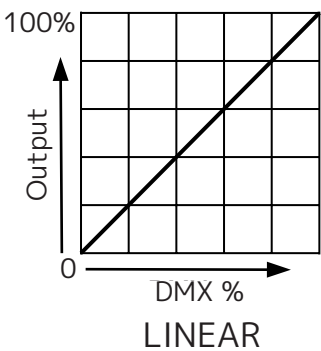
1. Daisy-chain the fixtures using standard 3-pin XLR data cables. The Primary unit's female XLR connector is used for output; the last Secondary unit's male XLR connector is used for input only.
2. On the **Primary** unit, press the **MODE** button until "0018" is displayed. Press **SAVE** to confirm. The unit is now set as Primary. Set your desired operating mode on this unit.
3. On each **Secondary** unit, press the **UP** or **DOWN** button until "0028" is displayed. Press **SAVE** to confirm. The unit is now set as Secondary.
4. Connect the Secondary units to the Primary unit using the XLR connections.

All Secondary units will now follow the Primary unit's built-in programs and operating mode.

# DIMMER MODES AND CURVES



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



# 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 UV COB Cannon can be controlled using the DMX-512 protocol and features three DMX channel modes (1-Channel, 2-Channel, and 3-Channel). This fixture uses locking 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

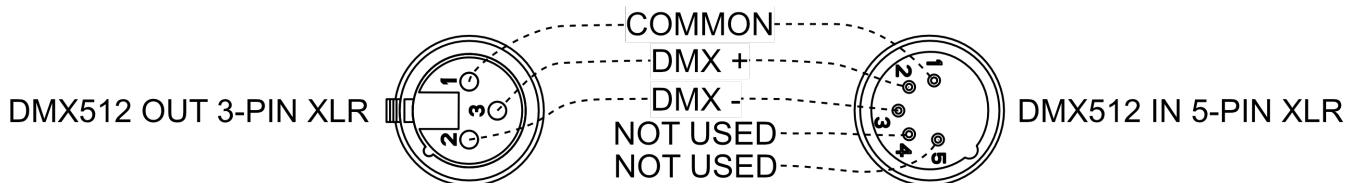
When using long cable runs, a terminator may be required on the last fixture in the chain to prevent erratic behavior. A terminator is a 110–120 ohm, 1/4 watt resistor connected between pins 2 and 3 of a male XLR connector. Using an ADJ terminator (part number Z-DMX/T) is recommended.



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. The UV COB Cannon uses 3-pin XLR connectors. When connecting a 5-pin cable or controller to this fixture, use the following pin conversion to create a proper adapter cable:



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, in order to ensure that 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 this case, please note that 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 “listen” starting at 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.

As an example, when operating this device in 3 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 4 (1 + 3), the third unit to 7 (1 + 3 + 3), and so on.

<b>Channel Mode</b>	<b>Unit 1 Address</b>	<b>Unit 2 Address</b>	<b>Unit 3 Address</b>	<b>Unit 4 Address</b>
1 Channel Mode	1	2	3	4
2 Channel Mode	1	3	5	7
3 Channel Mode	1	4	7	10

# DMX TRAITS

CHANNEL			DMX VALUES	FUNCTION
1 CH	2 CH	3 CH		
1	1	1		<b>DIMMING</b>
			0-255	0 - 100%
	2	2		<b>STROBING</b>
			0-255	0 - 100%
		3		<b>DIMMER CURVES</b>
			000-020	STANDARD
			021-040	STAGE
			041-060	T
			061-080	ARCHITECTURAL
			081-100	THEATRE
			101-255	DELAY MODE CONTROL

## DAISY CHAIN POWER-LINKING

This fixture is equipped with power input and output sockets, allowing multiple UV COB Cannon fixtures to be daisy-chained together on the same power circuit.

### Maximum quantity per power line:

- 3 fixtures maximum at 120V
- 5 fixtures maximum at 240V

Once the maximum number of fixtures has been reached, use a new power outlet. All fixtures connected in the daisy-chain must be identical UV COB Cannon units. **DO NOT** mix different model fixtures on the same power line.

## CLEANING AND MAINTENANCE



**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 periodically with a soft cloth to avoid dirt/debris accumulation.

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

### 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.

### FUSE REPLACEMENT

1. Disconnect the fixture from its power source and remove the power cord.
2. The fuse holder is located inside the power socket.
3. Insert a flat-head screwdriver into the power socket and gently pry out the fuse holder.
4. Remove the damaged fuse and replace it with a new fuse of the same rating (3 Amp).
5. The fuse holder also contains a spare fuse for convenience.

# SPECIFICATIONS

- Super high output UV light cannon
- Great for performance stages, theatrical productions and special effects productions
- Requires almost no maintenance – low heat, low power consumption
- Advanced COB Technology (Chip On Board) produces powerful, smooth UV color
- 3 Operation modes: Sound Active, Manual, DMX
- 3 DMX Channel modes: 1, 2 or 3 channel
- 4-button digital DMX display
- Flicker Free operation (No flickering on camera)
- Refresh Rate: 1KHz
- 5 selectable Dim Curves (Standard, Stage, TV, Architectural Theatre)
- LED pulse and strobe effect
- Electronic Dimming: 0 - 100%
- Beam angle: 56-degrees
- Dual yoke allows fixture to be hung or set on the ground
- DMX Linkable: 3-pin XLR data connectors
- Power Linkable: Locking Power Connection
- (Up to 3 UV COB Cannon's @ 120V, 5 UV COB Cannon's @ 220V fixtures)
- With Wired Digital Communication Network
- Long Life LEDs (Rated at approximately 25,000 hrs.)
- Power Draw: 120W total (All LED's @ Full)
- Light Source: 100W COB (Chip On Board) UV LED engine
- Multi-voltage Operation: Auto switching, AC 100V - 240V/50Hz -60Hz
- Dimensions (LxWxH): 12.75" x 11" x 8" / 320 x 278 x 200mm
- Weight: 11 lbs. / 4.98kgs
- Wavelength: 395-405nm
- ETL Approved



