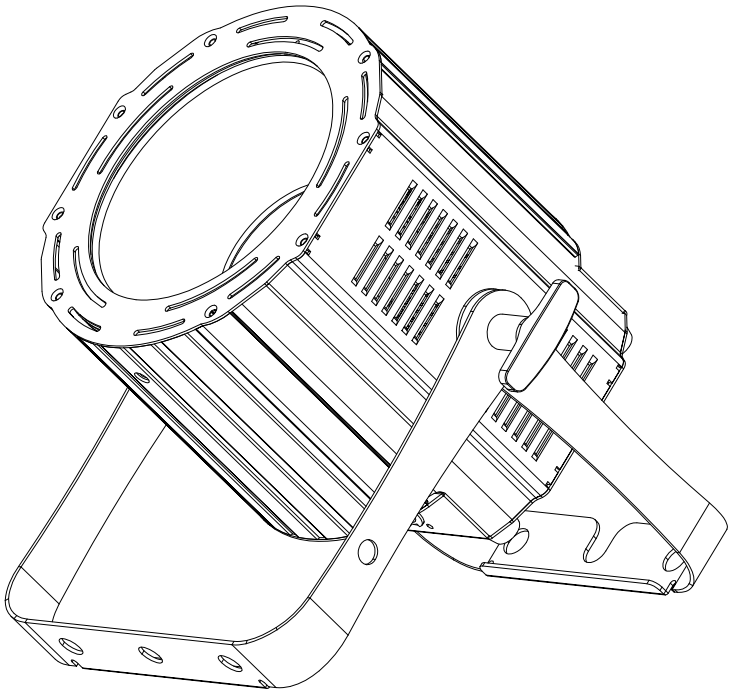
UV COB CANNON



User Instructions

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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 enviroment. 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!

Model: UV COB Cannon

Voltage:	100V ~ 240V/50~60Hz
LEDs:	100W COB UV LED
Working Position:	Any safe working position
Power Consumption:	120W
Power Cord Daisy Chain:	3 Fixtures Max. (120V) 5 Fixtures Max. (240V)
Fuse:	3 Amp
Weight:	11lbs./ 4.98Kgs.
Dimensions:	12.75” (L) x 11” (W) x 8” (H) 320 x 278 x 200mm
Colors:	UV
DMX Channels:	3 DMX Modes: 1 Channel Mode, 2 Channel Mode, & 3 Channel Mode
Duty Cycle:	4 Hours Max.
Warranty:	2 Year (730 days)

Auto Sensing Voltage: *This fixture contains a automatic voltage switch, which will auto 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.

Unpacking: Thank you for purchasing the UV COB Cannon by ADJ Products, LLC. Every UV COB Cannon 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 your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case 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 UV COB Cannon is part of a continuing pursuit to create high quality intelligent lighting. The UV COB Cannon is a DMX intelligent, high powered LED par fixture. This fixture can be used in a stand alone mode or connected in a Master/Slave configuration. This wash has six operating modes: Sound Active mode, Auto mode, Fade mode, White Preset Mode (Color Temperature mode) and DMX control mode.

Customer Support: ADJ Products, LLC provides a customer support line, to provide set up help and to answer any question should you encounter problems during your 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.

Voice:	(323) 582-3322
Fax:	(323) 582-3108
E-mail:	support@AmericanDJ.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, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact ADJ Products, LLC.

PLEASE recycle the shipping carton when ever possible.

UV COB Cannon General Instructions

To optimize the performance of this product, please read these operating instructions carefully to 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.

UV COB Cannon Features

- 3 Operating Modes: Sound Active, 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 Curves
- Power Cord Daisy Chain (See page 13)

UV COB Cannon Warranty Registration

The UV COB Cannon carries a 2 year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany 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 a R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper.

UV COB Cannon Notes

MANUFACTURER'S LIMITED WARRANTY

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 back the product–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 pre-paid. 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 it's original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have 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 serial number has been 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 not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintnance, 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 indentifying 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.

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 no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. 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 Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

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:

- **Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LEDs and lamps)
- **Laser Products = 90-Day Limited Warranty**
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding motors, PCB boards, and power supplies, which have a 1-year (365 day Limited Warranty) and batteries which have a 180 day limited warranty).

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord has been 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 case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is 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 becomes damaged.
- This unit is intended for indoor use only, use of this product out` doors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 14 for cleaning 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, 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.

RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET (UV) RADIATION!

FIXTURE EMITS HIGH INTENSITY ULTRAVIOLET (UV) LIGHT

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 PHOTOSENSITIVE MEDICATION, MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET (UV) LIGHT EMITTED FROM THIS FIXTURE.

Disconnect the unit from its power source. Remove the power cord from the unit. Once the cord has been removed, you will find that the fuse holder is located inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. The fuse holder also has a holder for a spare fuse.

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. 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).

Listed below are a few common problems the user may encounter, with solutions.

Unit not responding to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 2 may be ‘hot’). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

Unit does not respond to sound:

1. Quiet or high pitched sounds will not activate the unit.
2. Make sure that Sound Active mode is activated.

UV COB Cannon Installation

The UV COB Cannon is fully operational in three different mounting positions, hanging upside-down from a ceiling, hanging sideways on trussing, or set on a flat level surface. The unit should be mounted using a mounting clamp (not provided), affixing it to the mounting bracket that is provided with the unit. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times the unit's weight. Also, always use a safety cable that can hold 12 times the weight of the unit when installing the fixture.

The equipment must be installed by a professional, and it must be installed in a place where it is out of the reach of people's grasp.

UV COB Cannon Power Cord Daisy Chain

With this feature you can connect the fixtures to one another using the power input and output sockets. The quantity that can be connected is 3 fixtures maximum for 120V, and 5 fixtures maximum for 240V. After the maximum fixtures has been reached you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.

UV COB Cannon Set Up

Power Supply: The ADJ UV COB Cannon contains a automatic voltage switch, which will auto 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, this unit can be plugged in anywhere.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures 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, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation): The UV COB Cannon can be controlled via DMX-512 protocol. The UV COB Cannon has 3 DMX channel modes, please see page 8 for the different modes. The DMX address is set on the back panel of the UV COB Cannon. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

Figure 1

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 erratic behavior.

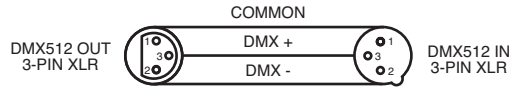
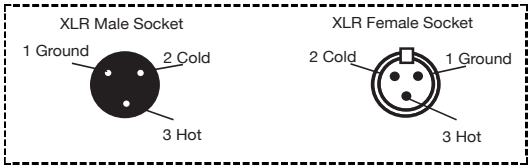


Figure 2



XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

Figure 3

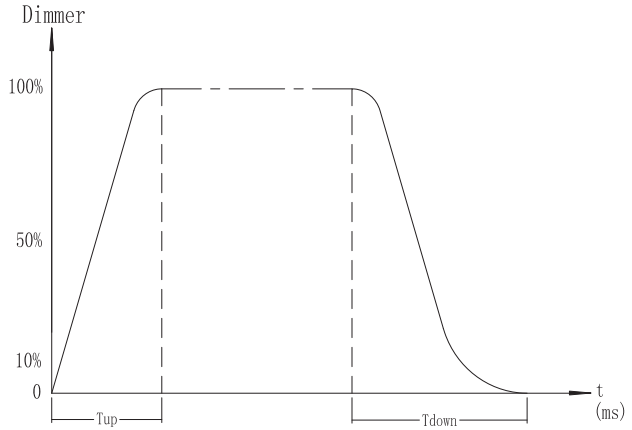
Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.

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

Figure 4

5-Pin XLR DMX Connectors. Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables 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



Ramp Effect	Unit Dim Mode	0—255 1S (Fade Time)	
		Tup(ms)	Tdown(ms)
Standard	dr-0	0	0
Stage	dr-1	1540	1660
TV	dr-2	1860	1940
Architectural	dr-3	2040	2120
Theatre	dr-4	2230	2280

UV COB Cannon		1 Channel Mode
Channel	**Value**	**Function**
1		DIMMING
	1 - 255	0% - 100%

UV COB Cannon		2 Channel Mode
Channel	**Value**	**Function**
1		DIMMING
	1 - 255	0% - 100%
2		STROBING
	1 - 255	SLOW - FAST

UV COB Cannon		3 Channel Mode
Channel	**Value**	**Function**
1		DIMMING
	1 - 255	0% - 100%
2		STROBING
	1 - 255	SLOW - FAST
3		DIMMER CURVES
	0 - 20	STANDARD
	21 - 40	STAGE
	41 - 60	TV
	61 - 80	ARCHITECTURAL
	81 - 100	THEATRE
	101 - 255	DELAY MODE CONTROL

LED Display On/Off:

To set the LED display to turn off after 10 seconds, press the MODE button until either “0010” or “0020” is displayed. Press the UP or DOWN buttons to toggle between the two modes. Press SAVE once you have found your desired mode.

To set the display press the MODE button until:
“0010” = LED display on at all times.
“0020” = LED display shuts off after 10 seconds.

Operating Modes:

The UV COB Cannon has three operating modes:

- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.
- UV Dimmer Mode - Adjust the intensity of UV output. You can also apply strobing in this mode and select a dimmer curve.
- Sound-Active mode - The unit will react to sound, chasing through the built in programs.

DMX Mode:

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. The UV COB Cannon has 3 DMX modes: 1 Channel mode, 2 Channel mode, and a 3 Channel mode. See page 10 for each DMX traits.

1. This function will allow you to control each individual fixture’s traits with a standard DMX 512 controller.
2. To select your desired Channel mode press the MODE button until:

- To run the 1 Channel Mode, press the MODE button until “XXX1” is displayed. This is the 1 Channel DMX Mode.
- To run the 2 Channel Mode, press the MODE button until “XXX2” is displayed. This is the 2 Channel DMX Mode.
- To run the 3 Channel Mode, press the MODE button until “XXX3” is displayed. This is the 3 Channel DMX Mode.

3. After you have chosen your desired DMX Channel mode plug in the fixture via the XLR connections to any standard DMX control ler.
5. Please see page 10 for DMX values and traits.

UV Manual Dimmer Mode:

1. Plug the fixture in and press the MODE button until:
2. When “XXX4” is displayed you are in dimming mode. Press the UP and DOWN buttons to adjust intensity.
3. When “XXX5” is displayed you are in strobing mode. Press the UP and DOWN buttons to adjust strobing.
4. When “XXX6” is displayed you are in dimmer curve adjustment. Press the UP and DOWN buttons to scroll through the different curve modes. See the dimmer curve chart on page 11.

Sound Active Mode:

In this mode the UV COB Cannon will react to sound.

1. Plug the fixture in and press the MODE button until “0017” is displayed.
2. The fixture will now change via sound.
3. Press the UP or DOWN button so that “0027” is displayed. This will turn sound activite mode off.

Dimmer Mode Setting:

In this menu setting you can set a dimmer desired mode. See page 12 for the different dimmer modes.

1. Plug the fixture in and press the MODE button until “00X6” is displayed.
2. “X” represents the displayed dimmer curve (0-4).
   - 0 - Standard
   - 1 - Stage
   - 2 - TV
   - 3 - Architectural
   - 4 - Theatre
3. Press the UP or DOWN buttons to scroll through and select your desired dimming mode.

Master-Slave Configuration:

This function will allows you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units built-in programs. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the “Master.”

Master-Slave Connections and Settings:

1. Daisy chain your units via the XLR connector on the rear of the 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 (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. On the “Master” unit, press the MODE button until “0018” is displayed. This is the “Master” setting, press the SAVE button. After you have set it to the “Master” setting, set your desired operating mode.
3. For the “Slave” unit, press the UP or DOWN button so that “0028” is displayed. This is the “Slave” setting, press the SAVE button.
4. Now connect the “Slave” unit to the “Master” unit using the XLR connections.