



# COB CANNON WASH DW



## User Manual

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Please check [www.adj.com](http://www.adj.com) for the latest revision/update of this manual before beginning installation and/or programming.

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 COB Cannon Wash DW by ADJ Products, LLC. Every unit 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 have arrived intact. In the event that damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

**Introduction:** The ADJ COB Cannon Wash DW is a DMX intelligent, high powered LED wash fixture. This wash has five operating modes: Sound Active mode, Auto mode, WW/CW Dimmer mode, Static Color mode, and DMX control mode. This fixture can be used either as a standalone unit or connected in a Primary/Secondary configuration. 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.

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

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

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

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

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**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.

# FEATURES

- Five Operating Modes
- Electronic Dimming 0-100%
- 5 Selectable Dimming Curves
- 8 Color Macros
- Built in Microphone
- Optional 40° & 50° Lenses Included
- DMX-512 protocol
- 3-Pin & 5-Pin DMX Connections
- 6 DMX Modes: 1 Channel Mode, 2 Channel Mode, 3 Channel Mode, 4 Channel Mode, 5 Channel Mode, & 6 Channel Mode.
- ADJ RFC compatible (Not Included)
- Power Cord Daisy Chain (see **Power Cord Daisy Chain** section of this manual)

# INSTALLATION

The unit should be mounted using a mounting clamp (not provided), and 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 during operation. Always ensure that the structure to which you are attaching the unit is secure and is able to support at least 10 times the unit's weight. Also, always use a safety cable that can hold at least 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 the general public.

# WARRANTY REGISTRATION

The COB Cannon Wash DW 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 accompanied by a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain an R.A. number by contacting our customer support team 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.

## LIMITED WARRANTY (USA ONLY)

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending the product back—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be prepaid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall incur no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because it was not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic check-up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Product, LLC be liable for any loss and/or damage, direct and/or consequential arising out of the use of, and/or inability to use this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC products, and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

### MANUFACTURER'S LIMITED WARRANTY PERIODS:

- Non-LED Lighting Products = 1-Year (365 Days) (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobos, 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)

# 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 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 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 its 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, and 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, paying particular attention to the point at which they exit from the unit.
- Cleaning - The fixture should be cleaned only as recommended by the manufacturer. Refer to the **Cleaning** section of this manual.
- 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.

# SYSTEM MENU

MODE	SET UP	UP / DOWN	DESCRIPTION
DMX Mode	d.xxx	d.001 ~ d.512	Set DMX starting address
	Ch.xx	Ch.01	1-channel mode
		Ch.02	2-channel mode
		Ch.03	3-channel mode
		Ch.04	4-channel mode
		Ch.05	5-channel mode
		Ch.06	6-channel mode
	bIAc / LASt / ProG	bIAc	Unit switches all LEDs off if DMX signal is lost or interrupted
		LASt	Unit will hold last state before signal was lost if DMX signal is lost or interrupted
		ProG	Unit will run internal programs if DMX signal is lost or interrupted
	dr-x	dr-0	Standard dimmer curve
		dr-1	Stage dimmer curve
		dr-2	TV dimmer curve
		dr-3	Architectural dimmer curve
		dr-4	Theatre dimmer curve
Secondary Mode	Secd	Secd	Set unit in secondary mode
Dimmer Mode	h.xxx	h.000 ~ h.255	Adjust warm white intensity
	C.xxx	C.000 ~ C.255	Adjust cool white intensity
	FS.xx	FS.00 ~ FS.15	Adjust flash speed; FS.00 = flash off, FS.01 = slowest flash, FS.15 = fastest flash
Sound Mode	So.xx	So.01 ~ So.08	Select sound mode
	SJ-x	SJ-1 ~ SJ-8	Adjust sound sensitivity; SJ-1 = least sensitive, SJ-8 = most sensitive
Auto Run Mode	AF.xx	AF.01 ~ AF.08	Select dreaming mode
	AJ.xx	AJ.01 ~ AJ.08	Select jumping mode
	A-JF	A-JF	Select dreaming & jumping mode, where the two modes run in a continuous cycle
	SP.xx	SP.01 ~ SP.16	Adjust speed
Static Color Select Mode	CL.xx	CL.00 ~ CL.08	Select static color
	FS.xx	FS.00 ~ FS.15	Adjust flash speed; FS.00 = flash off, FS.01 = slowest flash, FS.15 = fastest flash

CONTINUED ON NEXT PAGE



# SYSTEM MENU

MODE	SET UP	UP / DOWN	DESCRIPTION
Other Mode	dxx	don	LED display always on
		doFF	LED display off
	rFxx	rFon	Remote function on
		rFoF	Remote function off
	Stnd / rEv	Stnd	Normal display orientation
		rEv	Inverted display orientation
	dEFA	dEFA	Default unit to factory settings

# OPERATING INSTRUCTIONS

## **DMX Mode:**

Operating through a DMX controller gives the user the freedom to create custom programs tailored to their own individual needs. The COB Cannon Wash DW has 6 DMX modes: 1 channel mode, 2 channel mode, 3 channel mode, 4 channel mode, 5 channel mode, and a 6 channel mode. See the **DMX Traits** section of this manual for detailed information. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.

1. To run your fixture in DMX mode, press the MODE button until "d.XXX" is displayed. "XXX" represents the currently selected DMX address. Use the UP or DOWN buttons to select your desired DMX address, then press the SETUP button to select your DMX Channel mode.
2. Use the UP or DOWN buttons to scroll through the DMX Channel modes. The Channel modes are listed below:
  - "Ch01" is the 1 Channel DMX Mode.
  - "Ch02" is the 2 Channel DMX Mode.
  - "Ch03" is the 3 Channel DMX Mode.
  - "Ch04" is the 4 Channel DMX Mode.
  - "Ch05" is the 5 Channel DMX Mode.
  - "Ch06" is the 6 Channel DMX Mode.

After you have chosen your desired DMX Channel mode, plug in the fixture to any standard DMX controller via the XLR connections.

## **No DMX State:**

This mode can be used to determine how the unit will behave in the event that the DMX signal is lost or interrupted, or when the unit is powered on for the first time.

1. Plug the fixture in and press the MODE button until "d.XXX" is displayed. "XXX" represents the currently selected DMX address.
2. Press the SET UP button so that "bLAc", "LAsT", or "ProG" is displayed. The currently selected option will be displayed. Use the UP and DOWN buttons to scroll through the DMX states.
  - *"bLAc" (Blackout)* - If the DMX signal is lost or interrupted, the unit will automatically go into stand by mode.
  - *"LAsT" (Last State)* - If the DMX signal is lost or interrupted, the fixture will stay in the last DMX set up. If power is applied and this mode is set, the unit will automatically go into the last DMX set up.
  - *"ProG" (Auto Run)* - If the DMX signal is lost or interrupted, the unit will automatically go into Auto Run mode.

Use the UP and DOWN buttons to find your desired DMX state and press SET UP to confirm and exit.

# OPERATING INSTRUCTIONS

## ***Dimmer Curve:***

This is used to set the dimming curve used with DMX mode. See the **Dimmer Curve Chart** section of this manual for detailed information.

1. Plug the fixture in and press the MODE button until “d.XXX” is displayed. “XXX” represents the currently selected DMX address.
2. Press the SET UP button until “dr-X” is displayed. “X” represents the displayed dimmer curve, each of which is represented by a number (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 curve.

## ***Secondary Mode:***

1. Press the MODE button until “Secd” is displayed.
2. The unit is now set to secondary mode, and will follow the functions of the designated primary unit.

## ***Dimmer Mode:***

1. Press the MODE button until either h.xxx or C.xxx is displayed. The last option that was selected will be displayed.
2. Press SETUP to toggle between that warm white dimmer (h.xxx) and the cool white dimmer (C.xxx), then use the UP and DOWN buttons to set the desired value for each.
3. Press SETUP until “FS.XX” is displayed, indicating that the unit is in Flash mode. The Flash can be adjusted from “FS.00” (flash off) to “FS.15” (fastest flash).

## ***Sound Mode:***

1. Press the MODE button until So.xx is displayed.
2. Press SETUP select So.xx, then use the UP and DOWN buttons to select the desired sound mode.
3. Press SETUP until “SJ-x” is displayed, then use the UP and DOWN buttons to set the sound sensitivity level. SJ-1 is the least sensitive, and SJ-8 is the most sensitive.

## ***Auto Run Mode:***

1. Press the MODE button until either AF.xx, AJ.xx, or A-JF is displayed. The currently selected option will be displayed.
2. Press SETUP to toggle between the three auto run settings:
  - AF.xx = dreaming mode.
  - AJ.xx = jumping mode.
  - A-JF = dreaming and jumping mode.
3. When the desired auto run setting is displayed, use the UP and DOWN button to select which version of the auto run program to use. Dreaming mode (AF.xx) and jumping mode (AJ.xx) each have 8 options to choose from, while A-JF has no additional options.
4. Press SETUP until “SP.XX” is displayed, then use the UP and DOWN buttons to set auto run speed.

# OPERATING INSTRUCTIONS

## ***Static Color Mode:***

1. Plug the fixture in and press the MODE button until “CL.XX” is displayed.
2. There are 8 colors to choose from. Select your desired color by pressing the UP and DOWN buttons, then activate strobing by pressing the SET UP button to enter the Flash (strobe) mode.
3. “FS.XX” will be displayed, indicating that the unit is in Flash mode. The Flash can be adjusted from “FS.00” (flash off) to “FS.15” (fastest flash).

## ***Display Setting:***

This function controls whether the display screen remains permanently on.

1. Plug the fixture in and press the MODE button until either “dxx”, “rFxx”, “Stnd”, “rEv”, or dEFA” is displayed.
2. Press the SET UP button to scroll to “dxx” if it is not already selected.
3. Press the UP or DOWN buttons to toggle between “don” (display always on) and “doFF” (display off).

## ***Remote Function:***

This function is used to activate and deactivate the receiver for the ADJ RFC (Remote Control). When this function is activated, you can control the fixture using the ADJ RFC. Please see the **ADJ RFC Operation** section of this manual for information about controls and functions.

1. Plug the fixture in and press the MODE button until either “dxx”, “rFxx”, “Stnd”, “rEv”, or dEFA” is displayed.
2. Press the SET UP button until “rFXX” is displayed. “XX” represents either “on” or “oF”.
3. Press the UP or DOWN buttons to either activate the remote function (rFon) or deactivate it (rFoF).

## ***Display Orientation:***

This function controls the orientation of the display readout.

1. Plug the fixture in and press the MODE button until either “dxx”, “rFxx”, “Stnd”, “rEv”, or dEFA” is displayed.
2. Press the SET UP button to scroll to “Stnd / rEv” if it is not already selected.
3. Press the UP or DOWN buttons to toggle between “Stnd” (normal display orientation) and “rEv” (inverted display orientation).

## ***Default Running Mode:***

This is a default running mode. When this mode is activated, all modes will return to their default settings.

1. Plug the fixture in and press the MODE button until “dXX” is displayed. “XX” represents either “on” or “oFF”.
2. Press the SET UP button until “dEFA” is displayed.
3. Press the UP and DOWN buttons simultaneously. Press the MODE button to exit.

# PRIMARY-SECONDARY CONFIGURATION

This function allows the units to be linked together to run in a Primary-Secondary mode, in which one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can act as a Primary or as a Secondary, but only one unit in a given system can be programmed to act as the Primary.

## ***Connections and Settings:***

1. Daisy chain your units via the XLR connectors on the rear of each unit. Use standard XLR data cables to link your units together. Remember that the male XLR connector is the input and the female XLR connector is the output. The first unit in the chain (primary) will use the female XLR connector only, while the last unit in the chain will use the male XLR connector only.
2. Set the "Primary" unit to your desired mode of operation.
3. On the "Secondary" units, press the MODE button until "SEcd" is displayed. Each "Secondary" unit must be set to this configuration.
4. Connect the first "Secondary" unit to the "Primary." The "Secondary" unit(s) should now start following the "Primary" unit.

# DMX SET UP

**Power Supply:** The ADJ COB Cannon Wash DW 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 almost 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 manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when linking several DMX fixtures. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example, a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line: at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

**Data Cable (DMX Cable) Requirements (For DMX Operation):** This unit can be controlled via DMX-512 protocol, and the DMX address is set using the controls on the back panel of the unit. This device has 6 DMX modes, and detailed information on these modes can be found in the **DMX Traits** section of this manual. Your unit and your DMX controller require a standard 3-pin or 5-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 professional lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector on 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 the illustration below when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

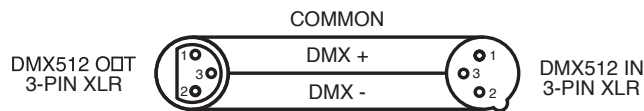


Figure 2

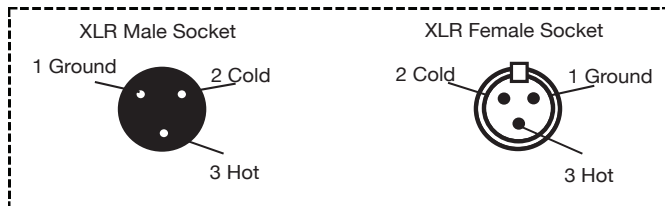
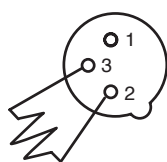


Figure 3

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

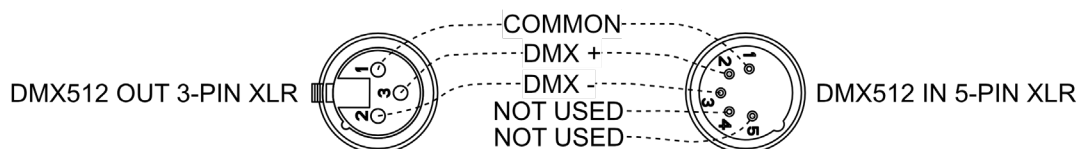
**Special Note: Line Termination.** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted 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 manufacturers 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 by using a cable adaptor. These adaptors are readily available at most electronics stores. The chart below details a proper cable 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 SET UP

## DMX ADDRESSING.

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, when this unit is operating in 2 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 3 (1 + 2), the third unit to 5 (1 + 2 + 2), and so on. See the chart below for more details.

CHANNEL MODE	UNIT 1 ADDRESS	UNIT 2 ADDRESS	UNIT 3 ADDRESS	UNIT 4 ADDRESS
1 Ch	1	2	3	4
2 Ch	1	3	5	7
3 Ch	1	4	7	10
4 Ch	1	5	9	13
5 Ch	1	6	11	16
6 Ch	1	7	13	19



# DMX TRAITS

CHANNEL						DMX VALUES	FUNCTION
1Ch	2Ch	3Ch	4Ch	5Ch	6Ch		
	1	1	1	1	1	000 - 255	<b>Cool White</b> , 0% to 100%
	2	2	2	2	2	000 - 255	<b>Warm White</b> , 0% to 100%
1			3	3	3		<b>Color Temperature</b>
						000	Off
						001 - 255	3200K to 6400K linear
				4	4		<b>Shutter / Strobe</b>
						000 - 031	LED Off
						032 - 063	LED On
						064 - 095	Strobing, slow to fast
						096 - 127	LED On
						128 - 159	Strobe Pulse, slow to fast
						160 - 191	LED On
						192 - 223	Random Strobe, slow to fast
						224 - 255	LED On
		3	4	5	5	000 - 255	<b>Master Dimmer</b> , 0% to 100%
					6		<b>Dimmer Curves</b>
						000 - 020	Standard
						021 - 040	Stage
						041 - 060	TV
						061 - 080	Architectural
						081 - 100	Theater
						101 - 255	Default to unit setting

## ADJ RFC OPERATION

The **ADJ RFC remote** (sold separately) has many different functions and allows you to control your COB Cannon Wash DW remotely. To use the RFC remote, you must first activate the fixture's receiver, as described in the **Operating Instructions** section of this manual. Maximum range is 150 ft. ***Please note that the fixture will only respond to remote inputs when set to Primary mode.***

**BLACKOUT** - Pressing this button will blackout the fixture. Press and hold for 3 seconds to activate default mode. All modes will return to their default settings.

**AUTO RUN** - This button cycles through color fade mode, color change mode, and auto run mode. Each button press cycles the fixture to the next mode. Color fade mode and color change mode each have 8 selectable programs, which can be cycled using the "+" and "-" buttons. To adjust the speed of the selected mode, press the SPEED button and then use the "+" and "-" buttons to make adjustments.

**SELECTION PROGRAM** - Press this button to activate Static Color mode. Use the "+" and "-" buttons to scroll through the 8 colors. Once you have found your desired color, press the FLASH button to activate strobing, then use the "+" and "-" buttons to adjust the strobe speed.

**FLASH** - This button will activate the flash (strobe) effect. You can control the flash speed by pressing the "+" and "-" buttons.

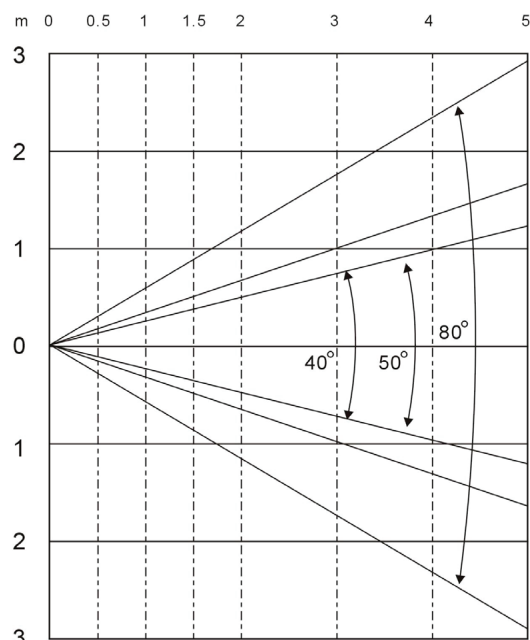
**SPEED** - Press this button and use the "+" and "-" buttons to adjust the speed of the color fade mode, color change mode, and auto run.

**SOUND ACTIVE** - This button activates sound active mode. Use the "+" and "-" buttons to scroll through the 8 sound active modes. Press the SOUND ACTIVE button again to access sound sensitivity adjustment. Use the "+" and "-" buttons to adjust the sound sensitivity level.

**R G** - Press the "R" button to access Warm White or "G" to access Cold White. Use the "+" and "-" buttons to adjust the brightness. Press the Flash button to activate strobing and use the "+" and "-" buttons to adjust the strobe speed.

**"+" and "-"** - These buttons are used to adjust the flash rate, auto run speed, color fade speed, color change speed, sound sensitivity, and output intensity. These buttons are also used to scroll through the static colors, color fade modes, color change modes, and sound active modes.

# PHOTOMETRIC CHART



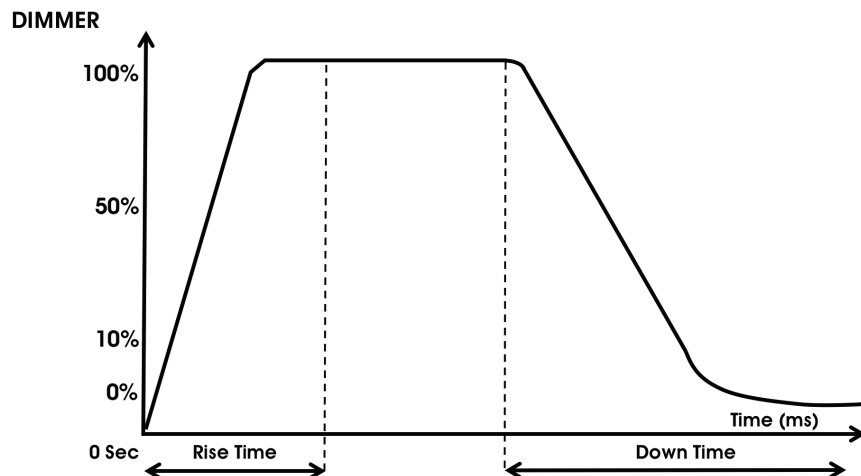
## COB CANNON WASH DW

	0.5m	1m	2m	3m	4m	5m	
40°							
CW	0.425	0.85	1.70	2.55	3.40	4.25	Diameter (Meters)
WW	27100	6710	1527	731	381	277	LUX
CW+WW	14690	4790	1183	527	302	192.3	LUX
	39600	8480	2010	891	406	296	LUX
50°							
CW	0.55	1.10	2.20	3.30	4.40	5.50	Diameter (Meters)
WW	18260	5630	1230	581	303	197.4	LUX
CW+WW	15810	3780	881	385	208	143.5	LUX
	36100	7890	1660	711	396	263	LUX
80°							
CW	0.875	1.75	3.50	5.25	7.00	8.75	Diameter (Meters)
WW	11230	2740	709	316	182.2	118.7	LUX
CW+WW	8760	2170	548	235	140.8	90.6	LUX
	19950	4030	961	410	211	140.5	LUX

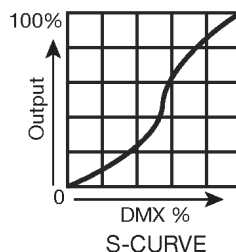
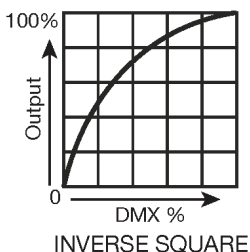
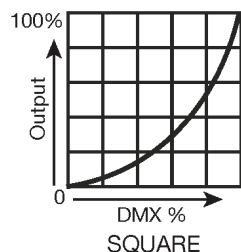
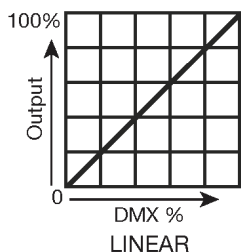
## OPTIONAL LENS INSTALLATION

This fixture features an 80-degree lens, which should arrive already installed on the fixture. Additional 40-degree and 50-degree lenses are included in the box. To switch lenses, simply remove the retainer ring located in front of the installed lens, then carefully remove the lens itself. Attach your desired lens, then reinstall the retainer ring. When reinstalling the retainer ring, make sure to insert 3 points of the retainer ring into the 3 notches located around the inside of the lens frame.

# DIMMER CURVE CHART



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



## POWER CORD DAISY CHAIN

This feature allows the fixtures to be linked to one another using the power in and power out sockets.

**The maximum number of fixtures that can be linked in this way is 5 fixtures.** After this quantity has been reached, a new power outlet must be used to accommodate additional features.

All units linked in this manner must be of the same make and model type. Do not mix fixtures!

## FUSE REPLACEMENT

Disconnect the unit from its power source, then remove the power cord from the unit. Locate the fuse holder under the power connection, then use a phillips head screw-driver to remove the fuse holder. Remove the fuse located inside the fuse holder and replace with the new fuse. Reinstall the fuse holder, making sure it has been inserted securely into place.

## TROUBLE SHOOTING

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

### ***Unit not responding to DMX:***

Check that the DMX cables are connected 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, as the order in which the inputs and outputs are connected can affect the unit’s operation.

### ***Unit does not respond to sound:***

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

## CLEANING

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

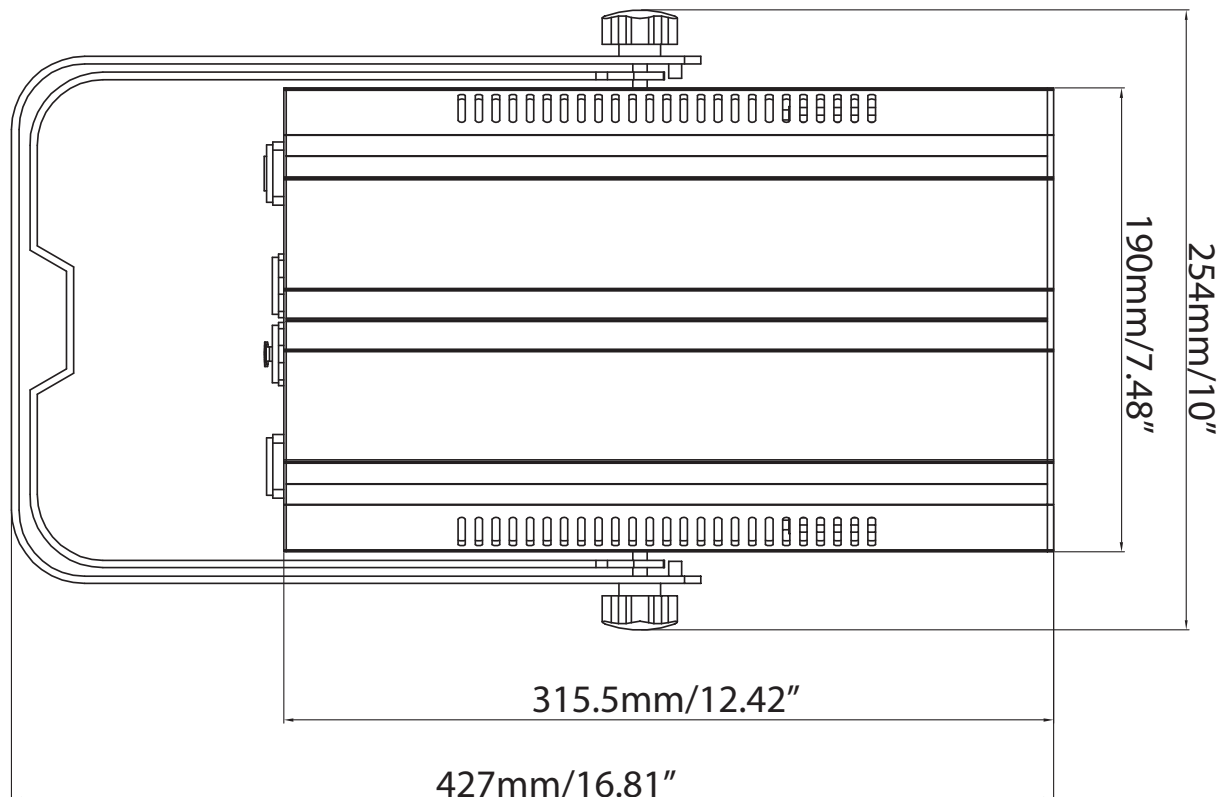
- Use normal glass cleaner and a soft cloth to wipe down the outside casing and external optics.
- Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

## SPECIFICATIONS

- Light Source: 1x 150-Watt COB Warm White/Cool White LED (CRI over 90; Warm White: 3000K, Cool White: 6500K, rated at approximately 50,000 hrs)
- 6 DMX Channel modes (1, 2, 3, 4, 5, & 6 Ch.)
- 8 warm white/cool white macros
- 80-degree beam angle (no lens), 50 and 40 degree lens kit included
- Dual White LEDs for color temperature adjustment, plus 64 built-in color macros
- 5 selectable Dim Curves (Standard, Stage, TV, Architectural & Theatre)
- Flicker Free operation (No flickering on camera)
- LED pulse and strobe effect
- Electronic Dimming: 0 - 100%
- 4-button digital DMX display on rear panel
- Compatible with ADJ RFC wireless remote control (sold separately)
- Dual yoke allows fixture to be mounted on truss or set on the ground
- 3 Pin and 5 Pin XLR chassis mount connectors for DMX linking
- With Wired Digital Communication Network
- PowerCon AC IN/OUT to daisy chain power (up to 5 fixtures @110V)
- Auto sensing power supply: AC 100V/60Hz - 240V/50Hz
- Dimensions (LxWxH): 16.25"x9.75"x7.5" / 415x245x192mm
- Weight: 9 lbs. / 4.1 kg.
- cETLus Approved (Control #4002034)

## DIMENSIONAL DRAWING



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