

**COB CANNON WASH ST DW**  
user manual

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## DOCUMENT VERSION

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 document before beginning installation and use.

Date	Document Version	Notes
02/26/19	1	Initial release.

### FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### 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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# 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

The products in this kit have been thoroughly tested and have 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 each unit included for damage and be sure all accessories necessary to operate the units 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 kit 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.

## WARRANTY RETURNS

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 and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

## CUSTOMER SUPPORT

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

**ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST**  
800-322-6337 | Fax 323-832-2941 | [support@adj.com](mailto:support@adj.com)

**ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET**  
+31 45 546 85 60 | Fax +31 45 546 85 96 | [support@adj.eu](mailto:support@adj.eu)

**REPLACEMENT PARTS** please visit [parts.adj.com](https://parts.adj.com)

## 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 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 its 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, or 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 service by anyone other than 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 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 warrant 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 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.
- 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.

### LIMITED WARRANTY PERIODS

- **Non L.E.D. 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 LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty)  
Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

# SAFETY INSTRUCTIONS AND GUIDELINES

To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. ADJ PRODUCTS LLC is not responsible for injury and/or damages resulting from the misuse of these devices due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of these devices and only the original rigging parts included with these devices should be used for installation. Any modifications to these devices and/or the included mounting hardware will void the original manufactures warranty and increase the risk of damage and/or personal injury.



## **PROTECTION CLASS 1 – DEVICES MUST BE PROPERLY GROUNDED**



**THERE ARE NO USER SERVICEABLE PARTS INSIDE THESE DEVICES. DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURES WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THESE DEVICES AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURES WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.**



**DO NOT PLUG THIS UNIT INTO A DIMMER PACK!  
DO NOT REMOVE THE COVER UNDER ANY CONDITIONS!  
NEVER OPERATE THIS UNIT WITH THE COVER REMOVED!  
UNPLUG POWER DURING LONG PERIODS OF NON-USE  
NEVER TOUCH LIGHT DURING OPERATION, AS IT MAY BE HOT!  
KEEP FLAMMABLE MATERIALS AWAY FROM THESE DEVICES!  
DO NOT EXCEED OPERATING TEMPERATURES OF 185°F (85°C)!**



**INDOOR / DRY LOCATIONS USE ONLY!  
DO NOT EXPOSE DEVICES TO RAIN AND/OR MOISTURE!**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!  
RETINA INJURY RISK - MAY INDUCE BLINDNESS!  
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

# SAFETY INSTRUCTIONS AND GUIDELINES

**DO NOT** position devices close to any **FLAMMABLE MATERIALS** while operating.

**DO NOT** attempt installation and/or operation of devices without knowledge how to do so.

**DO NOT** permit operation by persons who are not qualified to operate these types of devices.

**DO NOT** shake devices, avoid brute force when installing and/or operating.

**DO NOT** operate these devices if the main power cord has become frayed, crimped and/or damaged. Replace any damaged power cords with a similar power rating.

**DO NOT** remove or break-off the ground plug from the device power cords.

**DO NOT** remove disassemble devices, there are NO user serviceable parts inside.

**ALWAYS** disconnect devices from main power source before performing any cleaning.

**ALWAYS** disconnect light from main power before replacing lamp.

**ALWAYS** be sure to install these devices in an area that will allow proper ventilation.

**NEVER** remove the ground prong from the power cable.

Power cords should be safely routed and secured so they are not likely pinched.

Disconnect power cords during long periods of non-use.

Only use recommended rigging hardware as described in this guide.

Use the original packaging and materials to transport these devices in for service.

These devices should be serviced by qualified service personnel when:

- The power cords or plugs have become damaged.
- Objects have fallen on and/or liquid has spilled into the devices.
- The devices have been exposed to rain and/or moisture.
- The devices do not operate normally or exhibit a marked change in performance.



# MAINTENANCE GUIDELINES



**DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

## **CLEANING**

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the device operates in: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the lens and/or light fixture optics. Clean the external housing of the fixture and the front lens of the light at least every 20 days with a soft cloth to avoid dirt/debris accumulation.

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

## **MAINTENANCE**

Regular inspections are recommended to insure proper function and extended life.

There are no user serviceable parts inside these devices, please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

Please refer to the following points during routine inspections:

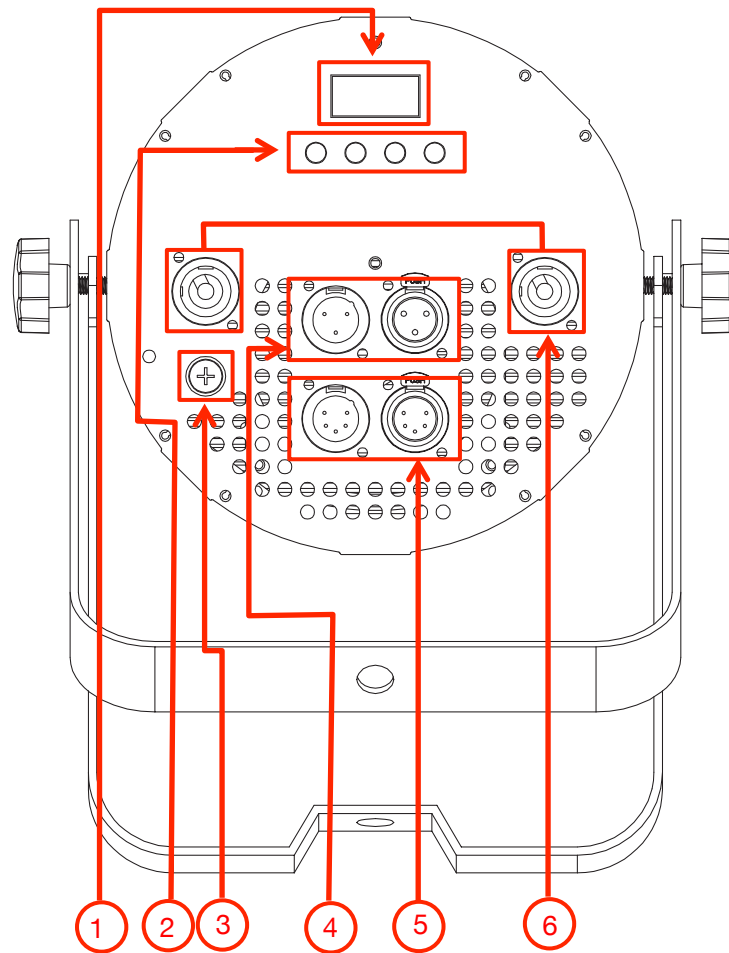
A detailed review by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.

Check for any deformations on the light, light housings, lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations could allow for dust to enter into the devices. Damaged rigging points or unsecured rigging could cause the devices to fall and seriously injure a person(s).

Electric power supply cables must not show any damage, material fatigue or sediments.

# OVERVIEW



**1 - Display:** Show the various menus and the selected functions.

**2 - Button:**

MENU	To select the programming functions
SET UP	To go forward in the selected functions
UP	To go backward in the selected functions
DOWN	To go forward in the selected functions

**3 - Fuse:** 3 Amps.

**4 - DMX Input/output:** 3-Pin In/Out Connection

**5 - DMX Input/output:** 5-Pin In/Out Connection

**6 - Mains Input/output:** Use powerCON mains connection.

# DMX SETUP

## POWER SUPPLY

The COB Cannon Wash ST DW contains an 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 by most lighting and controller manufactures 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. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

## DATA CABLE (DMX CABLE) REQUIREMENTS (FOR DMX AND MASTER/SLAVE OPERATION):

The COB Cannon Wash ST DW can be controlled via DMX-512 protocol. The COB Cannon Wash ST DW has 7 DMX channel modes. The DMX address is set electronically using the controls on the rear panel of the unit. Your unit and your DMX controller require an approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). We recommend AccuCable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable be purchased at almost all professional sound and lighting stores). Your cables should be made with a male 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

# DMX SETUP

## 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.

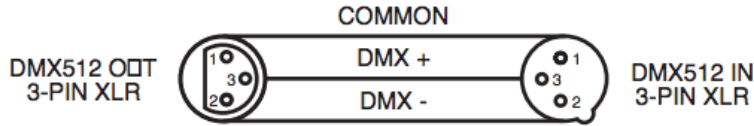


Figure 2

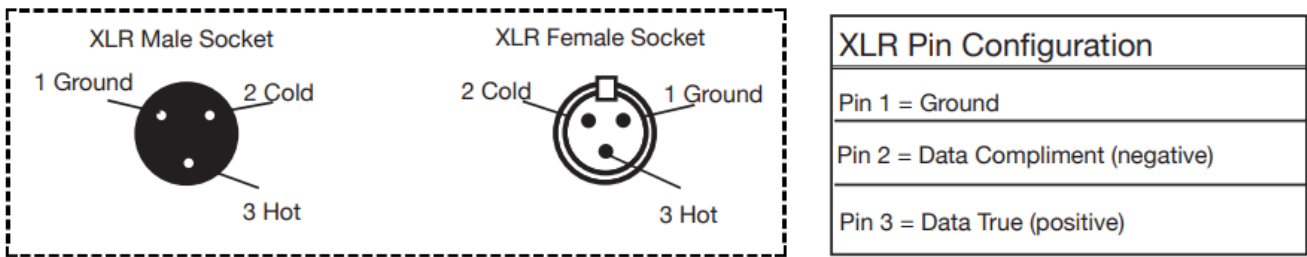


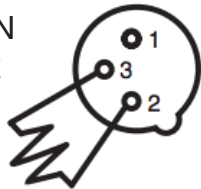
Figure 3

## SPECIAL NOTE: LINE TERMININATION

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.

Figure 4

DMX512 IN  
3-PIN XLR

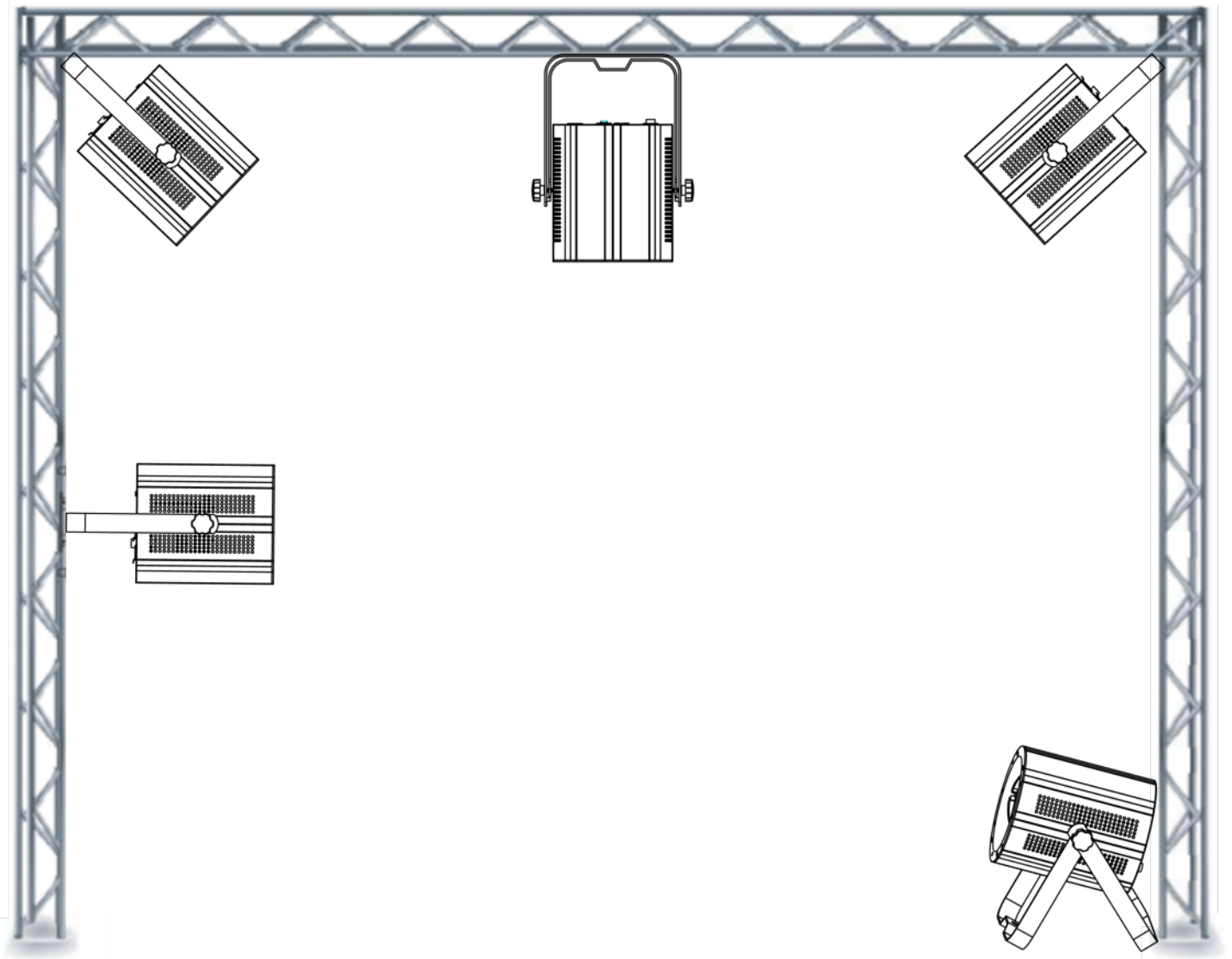


Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

# INSTALLATION INSTRUCTIONS

## INSTALLATION

This 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 the weight of ten (10) times the unit's weight and any mounting accessories. A safety cable (optional) is recommended when installing the fixture. It is also recommended that a professional installs the equipment and it must be installed in a place where it is out of the reach of people's grasp.



# SYSTEM MENU

## MODES

The COB Cannon Wash ST DW has 7 modes: DMX Mode, Slave Mode, Dimmer Color Mode, Sound Active Mode, Auto Run Program Mode, Static Color Select Mode and Other Mode.

During operation, the display will lock after 30 seconds. To unlock the display, press and hold down the **MODE** button for 3 seconds to unlock.

MODE manual	SET UP manual	UP/DOWN manual	Instruction
DMX MODE	Address	<i>d.001 ~ d.512</i>	Sets the DMX starting address
	Channels	<i>Ch01</i>	The unit occupies 1 DMX channels
		<i>Ch02</i>	The unit occupies 2 DMX channels
		<i>Ch04</i>	The unit occupies 4 DMX channels
		<i>Ch4A</i>	The unit occupies 4 DMX channels
		<i>Ch05</i>	The unit occupies 5 DMX channels
		<i>Ch06</i>	The unit occupies 6 DMX channels
		<i>Ch07</i>	The unit occupies 7 DMX channels
	NO DMX mode	<i>BLAc</i>	When DMX signal is lost or interrupted, the unit will default to BLACKOUT option. It will switch all LED's off
		<i>LRSt</i>	When DMX signal is lost or interrupted, the unit will default to HOLD option. It will hold the last state before signal was lost.
<i>Prog</i>		When DMX signal is lost or interrupted, the unit will default to AUTO. It will run the internal programs.	
Delay mode	<i>dr-0 ~ dr-5</i>	Select the unit delay mode	
SLAVE MODE	Slave mode	<i>SLAu</i>	Set the unit into slave mode
DIMMER MODE	WW dimmer	<i>h.000 ~ h.255</i>	Adjust the intensity of the warm white color
	CW dimmer	<i>l.000 ~ l.255</i>	Adjust the intensity of the cool white color
	Flash	<i>F5.00 ~ F5.15</i>	Adjust the flash speed, <i>F5.00</i> is flash off, <i>F5.01</i> is slowest, <i>F5.15</i> is fastest

<b>MODE manual</b>	<b>SET UP manual</b>	<b>UP/DOWN manual</b>	<b>Instruction</b>
SOUND MODE	Mode select	<i>5001 ~ 5008</i>	Select the 8 built-in sound modes
	Sensitivity select	<i>5J-0 ~ 5J-8</i>	Adjust the sensitivity of the sound-active, <i>5J-1</i> is the lowest level, <i>5J-8</i> is the highest level
AUTO RUN MODE	Dreaming mode set	<i>AF01 ~ AF08</i>	Select the 8 built-in dreaming modes
	Jumping mode set	<i>AJ01 ~ AJ08</i>	Select the 8 built-in jumping modes
	Speed set	<i>SP.01 ~ SP.16</i>	Adjust the speed of the dreaming/jumping modes
	Auto Dreaming & Jumping mode	<i>A-JF</i>	Activate combination auto dreaming & jumping mode, the dreaming mode and jumping mode will run in a continuous cycle
STATIC COLOR SELECT MODE	Color select	<i>CL00 ~ CL08</i>	Select the 8 static colors
	Flash	<i>F5.00 ~ F5.15</i>	Adjust the flash speed, <i>F5.00</i> is flash off, <i>F5.01</i> is slowest, <i>F5.15</i> is fastest
OTHER MODE	Display on/off	<i>don</i>	LED digital tube display always on
		<i>doFF</i>	LED digital tube display off
	IR remote function on/off	<i>Iron</i>	IR remote function on
		<i>Ir0F</i>	IR remote function off
	Display normal / inverse	<i>Stnd</i>	LED digital tube display normal
		<i>03P</i>	LED digital tube display inversion
Initialization mode	<i>dEFA</i>	Initialize the unit at the extra factory setting	

**DMX Mode:** Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. See page 19 for each mode's DMX traits. Press the **MODE** button to select the DMX mode.

**DMX Addressing and Channel Mode:** This function will allow you to control each individual fixture's traits with a standard DMX 512 controller. (When a DMX Address is set, the LED display will flicker if there is no signal from the controller.)

1. To run your fixture in DMX mode press the **MODE** button until "d.XXX" is displayed. "XXX" represents the current displayed DMX address.
2. Use the **UP** or **DOWN** buttons to select your desired DMX address, then press the **SET UP** button to select your DMX Channel mode.
3. Use the **UP** or **DOWN** button to scroll through the DMX Channel modes (Ch01, Ch02, Ch04, Ch4A, Ch05, Ch06 and Ch07).

**No DMX Setup:** This mode allows the unit to default to one of three modes if the DMX signal is lost or interrupted.

1. To select your NO DMX Mode, press the **MODE** button until "d.XXX" is displayed. "XXX" represents the current displayed DMX address.
2. Press the **SETUP** button until "no d n" is displayed.
3. Press the **UP** or **DOWN** button to select one of the three options.
  - a. BLACKOUT = "b L A C". The unit will switch all LED's off if signal is lost.
  - b. HOLD = "L A S E". The unit will hold the last state before the signal was lost.
  - c. AUTO = "P R O G". The unit will run the default internal programs.

**Delay Mode:**

1. To select your DELAY MODE, press the **MODE** button until "d.XXX" is displayed. "XXX" represents the current displayed DMX address.
2. Press the **SETUP** button until "D r - X" is displayed. "X" represents the current delay mode.
3. Press the **Up** or **Down** button to set the delay rate 0-5.
4. After you have chosen your desired DMX Channel mode, plug in the fixture via the XLR connections to any standard DMX controller.

**Slave Mode:** Press the **MODE** button to select the Slave mode.

Slave mode will be displayed as "S L A V".

Note, while in Slave mode, the **SET UP**, **UP** and **DOWN** buttons will not function.



**Manual Dimmer Color Mode:** Press the **MODE** button to select the manual Dimer Color mode. The Warm White will be displayed as “h.XXX” with “XXX” representing the dimming rate of 0-255 while Cool White will be displayed as “C.XXX” with “XXX” representing the dimming rate of 0-255

1. Press the **SET UP** button to select a select Warm White or Cool White color
2. Press the **Up** or **Down** button to set the dimming rate 0-255.
3. Flash Speed will be displayed as “FS.XX” with “XX” representing the flash speed rate.
4. Press the **SET UP** button to adjust the desired flash speed.
5. Press the **Up** or **Down** button to set the speed between “FS.00” (flash off), “FS.01” (slowest flash) and “FS.15” (fastest flash).

**Sound Active Mode:** In this mode the COB Cannon Wash ST DW will react to sound, and chase through the different colors. Press **MODE** button to select the Sound Active mode Sound Active mode will be displayed as “SoXX” with “XX” representing Sound Active mode (1-8).

1. Press the **SET UP** button to adjust the sound sensitivity. “SJ-X” should be displayed.
2. Press the **UP** or **DOWN** button to adjust the sensitivity level from 0 (off) to 8 (highest).

**Auto Run Program Mode:** There are 3 types of Auto Run Modes to choose from; Color Fade, Color Change, and both modes running together. The running speed is adjustable in all 3 modes.

Press the **MODE** button until “AFXX”, “AJXX”, or “A-JF” is displayed.

- Dreaming mode set = “AFXX”, there are 16 Color Fade modes to choose from.  
Use the **UP** or **DOWN** button to scroll through the different Auto Fade modes.
- Jumping mode set = “AJXX”, there are 16 Color Change modes to choose from.  
Use the **UP** or **DOWN** button to scroll through the different Auto Change modes.
- Auto Dreaming & Jumping modes running = “A-JF”

After you have chosen your desired running mode press the **SET UP** button until “SP.XX” is displayed. When this is displayed you can adjust the running speed of your desired program. Use the **UP** or **DOWN** button to adjust the speed between “SP.01” (slowest) and “SP.16” (fastest). Once you have set your desired running speed, press the **SET UP** button to return to your desired Auto Run Mode.

**Static Color Select Mode:** Choose between 8 static colors and activate/deactivate strobe.

1. Press **MODE** button to select the Static Color Select mode.
2. Press the **SET UP** button until “CLXX” or “FSXX” is displayed.
  - Static Color Mode = “CLXX”. There are 8 static colors to choose from. Use the **UP** or **DOWN** button to select desired static color.
  - Flash Speed Select = “FS.XX”. Use the **UP** or **DOWN** button to adjust between “FS.00” (flash off), and “FS.01” (slowest flash) to “FS.15” (fastest flash).

**Other Program Select Mode:** There are 4 “Other” setup features to adjust. LED Display On/Off, IR Remote On/Off, Display Inversion and Initialization.

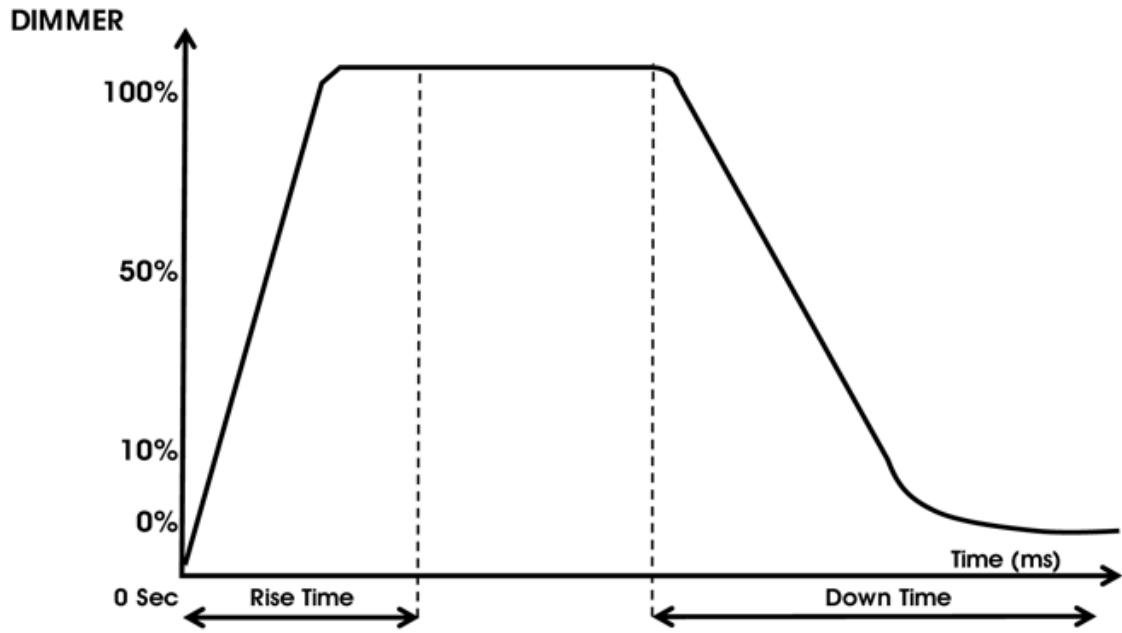
Press the **MODE** button until “doXX”, “lrXX”, “Stnd” or “dEFA” is displayed.

- **LED Display On/Off** = “doXX”. Set the LED display to turn off after 60 seconds by pressing **UP** or **DOWN** button to display “doff”. The display will turn off after 60 seconds and will reappear with the press of a button. Be advised that it will turn off again automatically after 60 seconds of inactivity. Selecting “don “ will set the LED display to On at all times.
- **IR Remote Function On/OFF** = “lrXX”. Press **UP** or **DOWN** button to display “Iron” to enable IR remote function or to “IroF” to disable IR remote function.
- **LED Display Inversion** = “Stnd”. Press **UP** or **DOWN** button to invert to display 180 degrees.
- **Initialization mode** = “dEFA”. Press the **UP** and **DOWN** buttons simultaneously to restore all modes to default settings. Press the **MODE** button to exit.

# DMX CHANNELS/VALUES/FUNCTIONS

MODE / CHANNEL							Value	Function
Ch01	Ch02	Ch04	Ch4A	Ch05	Ch06	Ch07		
	1	1	1	1	1	1	0-255	COOL WHITE 0% - 100%
			2				0-255	COOL WHITE FINE 16-BIT DIMMING 0% - 100%
	2	2	3	2	2	2	0-255	WARM WHITE 0% - 100%
			4				0-255	WARM WHITE FINE 16-BIT DIMMING 0% - 100%
1				3	3	3	0-255	VARIABLE WHITE 0 = OFF, 3200K to 6400K Linear
					4	4	0-31 32-63 64-95 96-127 128-159 160-191 192-223 224-255	STROBE LED OFF LED ON STROBE SLOW->FAST LED ON STROBE PULSE SLOW->FAST LED ON RANDOM STROBE SLOW->FAST LED ON
		3		4	5	5	0-255	MASTER DIMMER 0% - 100%
		4		5	6	6	0-255	MASTER DIMMER FINE 16-BIT DIMMING 0% - 100%
						7	0-20 21-40 41-60 61-80 81-100 101-120 121-255	DIMMER MODES STANDARD STAGE TV ARCHITECTURAL THEATRE STAGE 2 DEFAULT TO UNIT SETTING

# 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
Stage 2	0	1100	0	1660

# REMOTE OPERATING INSTRUCTIONS

**Airstream IR (sold separately):** The remote transmitter plugs into the headphone jack of your iOS phone or tablet. To control your IR fixture, you must raise the volume to the maximum on your iOS phone or tablet and aim the transmitter at the fixture sensor and be no more than 15 feet away. After you have purchased the Airstream IR transmitter, the app is a free download from the app store for your iOS phone or tablet. The app comes with 3 pages of control depending on the fixture you are using. Please see below for the IR Functions in the corresponding app page.

## Works with App Page 1.

**UC IR Remote:** The UC IR Remote can only be used if “IR Remote Function” is set to “On” (see page 17 for instructions on enabling IR Remote Function).

- **STAND BY** - Pressing this button will blackout the fixture. Press the button again to return to the initial state.
- **FULL ON:** Press this button to fully light up the unit.
- **FADE/GOBO:** Press this button to switch between Color Fade, Color Change and Auto Run mode.
- **DIMMER +** and **DIMMER -:** Use the buttons to adjust the color output intensity when color mode is active.
- **STROBE:** Press this button for strobing, then press button ‘1’ to select slow strobe speed, button ‘2’ to select medium strobe speed, button ‘3’ to select fast strobe speed, button ‘4’ to select faster strobe speed.
- **COLOR:** Press this button to activate color mode. Use buttons 1-9 to select your desired color.
- **1-9 BUTTONS:** Use buttons 1-4 to select your desired strobe speed when strobe mode is active. Use buttons 1-9 to select your desired color when color mode is active or your desired show when show mode is active.
- **SOUND ON** and **SOUND OFF:** Use the buttons to activate and deactivate sound active mode.
- **SHOW 0:** Press this button to select Show mode. Then use buttons 1-9 to select Shows 1-9. Press the “Show 0” button twice to run Show #10, and press button ‘1’ twice to run show #11.



## Multiple Unit Power Linking

With this feature you can connect the fixtures to one another using the power cable input and output sockets.

**NOTE: USE CAUTION WHEN POWER LINKING OTHER FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE! CHECK SIL SCREEN FOR MAX AMPS.**

## Master-Slave Setup

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 output. 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. Set the “Master” unit to your desired mode of operation.
3. On the “Slave” units press the **MODE** button until “SLAVE” is displayed. Each “Slave” unit must be set to the same setting.
4. Connect the first “Slave” unit to the “Master.” The “Slave” unit(s) should now start following the “Master” unit.

## Optional Lens Change

The COB Cannon Wash ST DW comes with an 80-degree lens already attached. Included in the box are optional 40 & 50-degree lenses. To switch lenses simply remove the retainer ring located in front of the current lens. After the retainer ring has been removed carefully remove the lens, and attach your desired lens. Reinstall the retainer ring and the switch is complete. 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.

## Fuse Replacement

Disconnect the unit from its power source. Remove the power cord from the unit. Once the cord has been removed, the fuse holder is located under the powerCON connection. Use a Phillips head screwdriver to remove the fuse holder. Remove the fuse located inside the fuse holder and replace with the new fuse. Install the new fuse into the fuse holder, reinsert and secure it.

## TROUBLE SHOOTING TIPS

### **Unit does not turn on:**

1. Confirm the unit has AC power.
2. Check if circuit breaker that controls the AC outlet the light is plugged into is not tripped.
3. Confirm the AC power cord from the light is not damaged or cut.
4. Check the fuse and see if it needs to be replaced.
5. If none of these solutions work, please contact ADJ Customer Service.

### **Unit does not respond 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.

## FREQUENTLY ASKED QUESTIONS

Listed below are a few answers to common questions users may have.

### **1. Can you use barn doors with the COB Cannon Wash ST DW?**

Yes, barn doors (BAR001) are an optional accessory and can be purchased separately.

### **2. Is the COB Cannon Wash ST DW flicker free?**

Yes, the COB Cannon Wash ST DW features Flicker Free operation. At 1,000Hz, there should be no flickering on camera.

# TECHNICAL SPECIFICATIONS

<b>MODEL: COB Cannon Wash ST DW</b>	
Wattage:	155
Light Source:	1x 150-Watt COB Warm White/Cool White LED
Voltage:	AC100V-240V/50Hz-60Hz
Beam Angle:	80 Degrees (Optional 40° & 50° Lenses Included)
Working Position:	Any safe working position
Fuse:	3 Amp
Colors:	Cool White & Warm White Mixing
DMX Channels:	7 DMX Channel modes (1, 2, 4, 4A, 5, 6 and 7)
Dimming:	0-100% Electronic Dimming
Strobe:	LED Pulse and Strobe Effect
Flicker Free:	Yes, 1,000Hz
IP Rating:	IP20 (Indoor Use Only)
Weight:	9.2 lbs./ 4.2 Kg
Dimensions: (w/ bracket)	13" (L) x 10" (W) x 7.5" (H) 330 x 256 x 190mm
Dimensions: (w/out bracket)	8.75" (L) x 7.5" (W) x 7.5" (H) 218 x 190 x 190mm
Warranty:	2 Year (730 Days)

**Please Note:** Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

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# OPTIONAL ACCESSORIES

<b>Order Code</b>	<b>Description</b>
AC5PDMX3	3' DMX cable with 5-pin male to 5-pin female connection.*
AC5PDMX3PRO	Pro Series 3' DMX cable with 5-pin male to 5-pin female connection.*
S-Cable/60	Safety Cable with 60-pound weight rating
O-CLAMP	360 degree clamp that wraps around truss tubing.
PRO-CLAMP	360 degree aluminum clamp with a max rating of 1100 lbs

\*Additional lengths available at [www.adj.com](http://www.adj.com)



# DIMENSIONS

