

# Eternal Lighting

## User Manual



## **Introduction:**

Thank you for your purchase. The EchoICON/EchoEDGE RGBWA+UV LED is a DMX intelligent LED par light. This LED par light is for the serious production company looking for high powered LED output with (8) 18Watt 6in1 RGBWA+UV LEDs. The CUBE Series including the CUBE3, CUBE4, CUBE5, CUBEecho, CUBEechoUV, EchoICON and EchoEDGE as well as the ElitePar Series are Designed in Houston, TX.

**Unpacking:** Thank you for purchasing the EchoICON/EchoEDGE RGBWA+UV light fixture. Every EchoICON/EchoEDGE RGBWA+UV 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 the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without first contacting them.

**Contents in each package: (1) EchoICON or EchoEDGE RBWA+UV, (1) IEC power cord, (1) Bracket, (2) knobs, (4) washers.**

**FIRST CHARGE YOUR FIXTURE FOR 6 HOURS.** Securely, plug the IEC power cord in the Power Input on the side of the light fixture, and then plug into the EchoICON/EchoEDGE charging road case or into a powerstrip connected to a wall outlet that supports 100-220V/50-60Hz. Flip the 3-way black switch to CHARGE position, having the red power button in the OFF position. Reference "How to Charge the CUBEecho" below. On the back of the fixture, the Battery Charge Indicator will illuminate Red while charging or illuminate Green when fully charged.

**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 the manufacturer or your dealer.

**How to Charge the CUBE Series Fixtures:** (Note)-there are two switches:

- 1.) The black switch is for the battery option use of this fixture. It is a 3-way switch; Battery ON, OFF (neutral position), and CHARGE.
- 2.) The red switch is used for AC power operation.

How to charge the fixture: Plug the IEC power cord into the Power Input. Flip the 3-way black button switch to the CHARGE position. **Caution!** Never have the battery button flipped to the ON position and the Red Power button in the ON position at the same time, while the IEC power cord is plugged into the fixture. However, you can operate the fixture

with the IEC power cord plugged into the Power Input, Red Power button flipped to ON and CHARGE the battery at the same time or have the 3-way switch in the OFF position.

### **How Long Does the Battery Last?**

The EchoICON/EchoEDGE RGBWA+UV will last up to 20 hours on a single full charge. It will depend on which LED colors and how many LED colors are being used at what intensity based on the (0-255) Scale. The (0-255) Scale you see on the push button display is directly related to the 0-255 scale you are using with a DMX controller or DMX software.

#### **Example:**

Full Red (255) will go about 22 hours  
Full Green (255) will go about 18 hours  
Full Blue (255) will go about 18 hours  
Full White (255) will go about 18 hours  
Full Amber (255) will go about 22 hours  
Full UV (255) will go about 17 hours

With that being said once you color mix and you use the before stated run times of each color and average the estimated run time you will be able to calculate about how long a battery with a full charge should last.

#### **For Example:**

2 Colors at Full - Red (255) + Green (255) will go about 11 hours.  
3 Colors at Full - Red (255) + Green (255) + Amber (255) will go about 7 Hours.

**Note:** With Color mixing 6in1 RGBWA+UV High Powered 18Watt LEDs. You will find that you typically only need to mix only 2 or 3 main colors to achieve the desired color.

Keep in mind that a single color at FULL (255) is bright enough so when color mixing...to achieve longer battery run times; instead of making the color "Purple" by way of Red (255) + Blue (255) which will give you about 10-12 Hours. Try making "Purple" by way of Red (127) + Blue (128) which will equal "Purple" ( $127+128 = 255$ ) which will give you about 19-22 Hours. This will be half as bright as before at full intensity. However, you will get almost double the battery run time.

## Features & Technical Specifications:

- (8) 18 Watt All in One RGBWA+UV LEDs
- All in One LEDs RGBWA+UV Fixture - RED, GREEN, BLUE, WHITE, AMBER and UV!
- 3CH, 4CH, 5CH, 6CH, 8CH, 11CH or 13CH DMX Modes
- Flicker Free Refresh Rate >400 Hz (HDTV Video, Guaranteed No Flicker)
- Ideal for ideal for HDTV recordings with Flicker Free operation
- Sound Active with 2 Sound Active Modes (1 Without Strobe/1 With Strobe)
- Auto Mode with 8 Speed Settings
- Smooth Color Mixing
- Fade mode with 8 Speed Settings
- 50 built in PRE-SET Colors
- Manual Color Mix Mode on Push Button Display
- Built In Color Macros, Auto & Manual control
- 16 Digit, 2 Line, Full Text read out Back-Lit LCD Push Button Display
- Ability to create & store into memory 5 Custom/manual Colors.
- Power In & Power Out
- Master/Slave Control
- Up to 20 Hours of Battery Life
- Flush Mounted Wireless DMX Antenna recessed to keep the antenna safe
- 2.4GHz Wireless DMX Receiver that is also a Transmitter (Up to 300ft Line of Sight)
- Simultaneous master signal transmitting from Master to all other lights in range
- IR Remote control. Also the Signal Received from the IR Remote can Transmit to the other lights by Wireless DMX.  
(Compatible with CUBE5, ElitePar5, CUBEecho & EchoEDGE)
- Dual Mount Bracket for hanging or sitting on the floor
- Rubber feet for non intrusive lay flat design.
- PHOTOMETRICS: 19,345 LUX @ 1meter (Full Power)

## Operation Guide:

Turn on the fixture by BATTERY ON or by plugging the IEC Power Cord into the Power input and turn the Red power switch to ON

<i>Start Up</i>	Welcome to ETERNAL LIGHTING	
Switch to Display	Version RGBWA (CH 3, 4, 5, 8, 11) RGBWA+UV (CH 3, 4, 5, 6, 8, 11, 13)	
DMX addr CH mode	DMX addr: 001-512 RGBWA -CH-mode: 3 / 4 / 5 / 8 / 11 RGBWA+UV -CH-mode: 3 / 4 / 5 / 6 / 8 / 11 /13	
Mast/Slave	Mast / Slave	
Manual	R/G/B/W/A/UV (000-255)	
SHND	Color	Color 01-31 (RGBWA) Color 01-50 (RGBWA+UV) Do not operate in Color50 with all colors at 255 other than Testing for short time.
		Auto      Auto Speed 01-08
		Custom Color A
		Custom Color B
		Custom Color C
		Custom Color D
	Sound	Sound: 1
		Sound: 2
	Fade	01-10 (Fast to Slow)
Boot time	Operating Time	
Work time	Total Operating Time	

Battery Capacity	Battery Percentage Indicator (90-100% is Fully Charged, 20-30% is Low to Depleted Battery) Note: Light will shut off around 20-30% left on Battery Capacity
LCD Display time	Full on
	10s/11s/12s...60s
IR INFA	Enable/Disable

### Menu:

- **Start Up** – Welcome to Eternal Lighting Screen
- **Switch to Display**- When blinking, choose Program RGBWA or RGBWA+UV, press UP and Enter
- **DMX Address and Channel Mode** – Press Enter to move up and down between DMX Addr and CH. Press Down/Up to scroll through choices. Press Enter to save a command then press Menu to back out.
- **Master/Slave** – Press Up or Down to change the command of Master or Slave, Enter to save the command. (NOTE: In order to use the IR Remote, put the fixture in Master Mode. The fixture will not respond to the IR Remote if it is in Slave Mode.)
- **Manual** – Press Enter to go through Red, Green, Blue, White, Amber, and UV. Press Up or Down to adjust color brightness on a scale of 0-255. Enter to save. This serves as the Master Dimmer for all the Pre-set colors.
- **SHND** –Press Up to scroll through options: Color, Sound, and Fade. Enter to select choice.
  - **Color** – Pre-set colors (1-50), after color 50 is AUTO change (Speed 1-8). After AUTO, is Custom Color A – E; Enter make a custom color. You can make 5 custom colors that will be saved under A through E.
  - **Sound** – Sound 1 (auto change when hears sound & Fade when quiet). Sound 2 (Strobe effect when hears sound & Fade when quiet).
  - **Fade** – Color Fade 1 through 10. Fast (1) to slow (10).
- **Boot Time and Work Time** – Current operating time and total run time
- **Battery Capacity** – Indication of Percentage left on the battery
- **LCD Display Time** – Choose to have the Display back lit Full On/10sec-60sec
- **IR INFA** – Enable or Disable

**How to use the Wireless Receiver:** Turn the wireless Receiver button to the ON position. There is a Wireless Indicator that illuminates the colors in the ID Code Selector.

**ID Code Selector** – Red (1), Green (2), Yellow (3), Blue (4), Purple (5), Cyan (6), White (7). To change to ID Code Selector colors, press the small clickable button next to the ID Code Selector. Choose a color, for example Blue (4), and do the same for all your CUBEcho RGBWA+UV.

**Master/Slave** - Have one fixture in Master Mode and the rest of the fixtures in Slave Mode. Turn on the Receiver button and put all fixtures on same ID Code Color. You now control only the Master fixture and all the Slave fixtures will do what the Master is doing. The Master fixture Wireless Indicator will start blinking RED (meaning transmitting signal) and all the Slave fixture(s) will start blinking GREEN (meaning receiving signal).

**How to use the XT-Mitter PRO 3.0 with your lights:** To operate the XT-Mitter PRO, you must connect the XT-Mitter Pro with a DMX cable to a DMX Controller.

To sync the EchoICON/EchoEDGE to the XT-Mitter PRO 3.0 transmitter, select the same ID Code color on all the fixture(s) and select the ID on the XT-Mitter PRO to correspond to the color. Reference the chart below. Note: Transmitter ID 8, 9, A, B, C, D, E, & F is inactive. Only select 1-7 to coordinate with the Receiver Color on your fixture.

Transmitter ID	1	2	3	4	5	6	7
Receiver LED Color	RED	GREEN	YELLOW	BLUE	PURPLE	CYAN	WHITE

Transmission Power Level on XT-Mitter PRO: Displays current transmission power (1) 2dBm (Lowest), (2) 8dBm, (3) 14dBm, or (4) 20dBm (Highest). To change the transmission power level, use the “PA” button located on the front panel. Recommended is P4.

The XT-Mitter PRO will start blinking RED (meaning transmitting signal) and all the Slave fixture(s) will start blinking GREEN (meaning receiving signal). You will have up to 300 feet, line of sight of communication with your XT-Mitter PRO and the EchoICON/EchoEDGE RGBWA+UV. Please reference the DMX chart below for information on the Channel Mode programs.

**Helpful Trick:** To Master Reset the EchoICON/EchoEDGE to Factory setting, press Menu and Enter button at the same time and hold for 5 seconds. The light will go into the following factory settings. AUTO color change mode, DMX Address back to 001, Channel mode back to 6CH Mode, Slave Mode, IR Disabled, Display on for 60 Seconds, Manual Colors back to 255, and put all custom colors (A-E) back to 0 color settings on all RGBWA+UV.

## Infrared remote control:

To use the IR remote control on the EchoICON/EchoEDGE, first ENABLE the IR INFA located in the MENU selection. Also, turn the fixture into a MASTER. To control the fixture you must aim the remote at the infrared sensor located on the top of the fixture by the LEDs.

## Remote Functions:

ON/OFF turn on/off the light, if you don't need the light for a while, you could press OFF to save power

PRO Press to activate Auto or Fade program, press UP or DOWN to choose speed for Fade

SOU sound active mode press UP or Down to chose sound active mode 1 or 2

STRO strobe mode, press UP or DOWN to choose speed

SPEE speed for Auto program, press UP or DOWN

MAST master mode

SLAV slave mode

CH addr / channel

FULL all leds light up at 255

SHUT all leds turn off

Red red color

GREE green color

BLUE blue color

WHIT white color

AMBE amber color

PINK pink color

ORG orange/yellow color

GYAN cyan color

PURP purple/UV color





**DMX Values and Functions: DMX Channel Mode 3ch / 4ch / 5ch / 6ch / 8ch / 11ch / 13ch**

**3CH Mode CUBEcho, EliteParHEX, EchoEDGE & EchoICON**

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)

**4CH Mode CUBEcho, EliteParHEX, EchoEDGE & EchoICON**

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)

**5CH Mode CUBEcho, EliteParHEX, EchoEDGE & EchoICON**

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	AMBER Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)

**6CH Mode CUBEcho, EliteParHEX, EchoEDGE & EchoICON**

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	AMBER Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH6	0-255	Ultra Violet Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)

**8CH Mode CUBEcho, EliteParHEX, EchoEDGE & EchoICON**

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	Auto (0-10 Off, 11-255 Auto Change Color Snap through the preset colors)
CH6	0-255	Auto Slow to Fast (0-255)
CH7	0-255	R, G, B,W STROBE from slow to fast (0-15 Off, 16-255 Strobe Slow to Fast)
CH8	0-255	SOUND (Off 0-15 ON 16-255 Color change through preset colors)

**11CH Mode CUBEcho, EliteParHEX, EchoEDGE & EchoICON**

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	AMBER Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH6	0-255	R, G, B, W Master dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH7	0-255	Amber Master dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH8	0-255	Auto Program Built in Macro (0-10 Off, 11-31 RED, 32- 53 Green, 54-75 Blue, 76-96 Color Snap White to Amber, 97-119 UV, 120-141 Color Snap Red to Green to Blue to White, 142-185 Color Snap UV to Yellow, 186-207 Orange as RED/Amber mixed, 208-255 Color Snap Red to Green to Blue to White to Amber)
CH9	0-255	Auto Speed Slow to Fast (0-255)
CH10	0-255	R, G, B,W, A STROBE from slow to fast (0-255)
CH11	0-255	SOUND 1 (Off 0-15, ON 16-255 Color change through preset colors)

**13CH Mode CUBEecho, EliteParHEX, EchoEDGE & EchoICON**

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	AMBER Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH6	0-255	Ultra Violet Color dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH7	0-255	R, G, B, W Master dimmer (0 Off, 1-255 Dim to Bright)
CH8	0-255	Amber Master dimmer (0 Off, 1-255 Dim to Bright)
CH9	0-255	Ultra Violet Master dimmer (0 Off, 1-255 Dim to Bright)
CH10	0-255	Auto Program Built in Macro (0-10 Off, 11-31 RED, 32- 53 Green, 54-75 Blue, 76-96 Color Snap White to Amber, 97-119 UV, 120-141 Color Snap Red to Green to Blue to White, 142-185 Color Snap UV to Yellow, 186-207 Orange as RED/Amber mixed, 208-250 Color Snap Red to Green to Blue to White to Amber, 251-255 Fade Program)
CH11	0-255	Auto/Fade Speed Slow to Fast (0-255)
CH12	0-255	R, G, B,W, A STROBE from slow to fast (0-255)
CH13	0-255	SOUND 1 (Off 0-15, ON 16-255 Color change through preset colors)

For more information, please contact Support by email at [support@eternallighting.com](mailto:support@eternallighting.com)