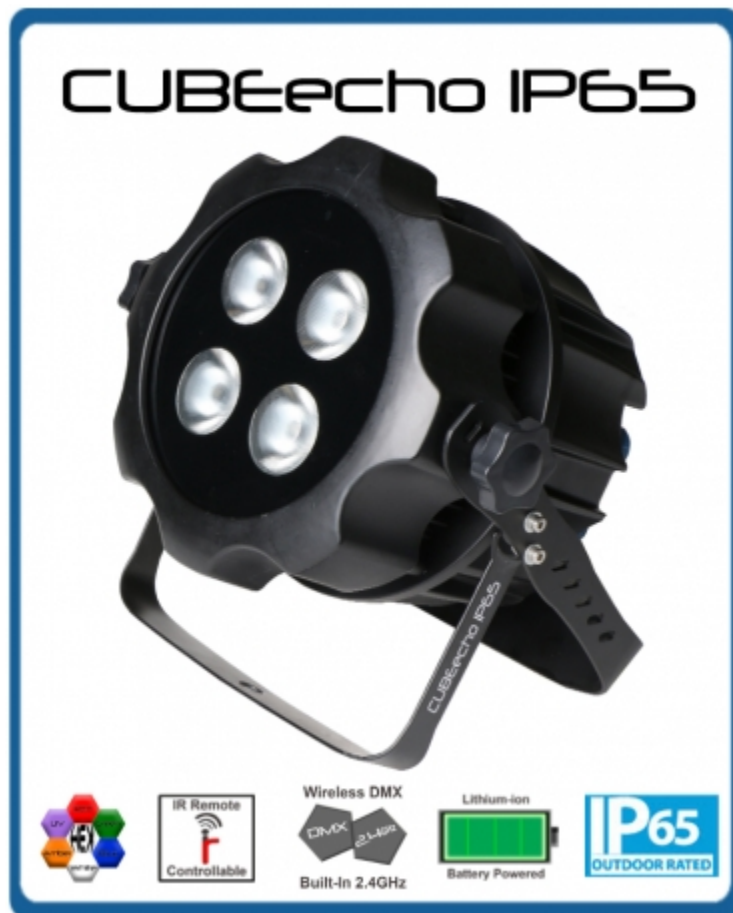# Eternal Lighting

CUBEecho™ IP65 HEX
User Manual

The CUBEecho™ IP65 HEX is a DMX intelligent LED par light rated for outdoor use.

Unpacking: Thank you for purchasing the CUBEecho™ IP65 HEX light fixture. Every CUBEecho™ IP65 HEX 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) CUBEecho™ IP65 HEX, (1) power cord, (1) Bracket Set, (2) knobs, (6) washers.

How to put on the bracket: Use 2 washers for each side of the bracket. Save the other 2 washers for replacements/spares. Put 1 washer on each knob, put knob through the bracket hole(s) and put the other 1 washer on the other side. Twist knob(s) to the fixture to tighten.

CHARGE YOUR FIXTURE(S) FOR 6-8 HOURS BEFORE EACH USE. Carefully twist off the cap for the power input. Securely, plug the power cord in the Power Input on the bottom of the light fixture, and then plug into the charging road case (keeping the lid open while charging) or plug into a powerstrip connected to a wall outlet that supports 100-220V/50-60Hz. On the top of the fixture, the Battery Charge Indicator will illuminate Red while charging or illuminate Green when fully charged. If the fixture turns on when plugged in to charge, turn off the fixture. To do this, press the Menu button once to activate the display, then press and hold the Up and Enter button at the same time for 10 seconds. When you release buttons the CUBEecho™ IP65 HEX will now be off. Please visually verify the light is off.

NOTE: The CUBEecho™ IP65 HEX battery will fully discharge after each use. For example a fully charged light will discharge in the off setting as described above after 5 days, gradually about 20% per day. This is an important design feature to lengthen the life of the battery. Remember to charge the fixtures before each use to ensure the fixture is fully charged before event use.

Caution: Never leave lighting fixtures charging unattended.

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 Long Does the Battery Last?
The CUBEecho™ IP65 HEX will last up to 17 hours on a single full charge. It will depend on which LED colors and how many LED colors are being used and will depend on the intensity level (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 17 hours
Full Green (255) will go about 14 hours
Full Blue (255) will go about 13 hours
Full White (255) will go about 14 hours

Full Amber (255) will go about 17 hours
Full UV (255) will go about 13 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 7 hours.
3 Colors at Full – Red (255) + Green (255) + Amber (255) will go about 5 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, try the following: instead of making the color "Purple" by way of Red (255) + Blue 255) which will give you about 7.5 hours. Try making "Purple" by way of Red (127) + Blue (128) which will equal "Purple" (127+128 = 255) which will give you about 14 hours. This will be half as bright as before at full intensity. However, you will get almost double the battery run time.

Operation Guide: Turn on the fixture by battery or by plugging the power cord into the power input. To turn on by battery or by power cord, press and hold the Menu and the Down button at the same time for 10 seconds. To turn off the fixture, press the Menu button once to activate the display. Press and hold the Up and Enter button at the same time for 10 seconds.

Addr	Address: 001-512
chnd	Channel: 3/4/5/6/8/8A/11/13
nanu	Custom Color - R, G, B, W, A, UV (0-255)
Shnd	Color, Auto, Fade
SLnd	Master/Slave Mode
UE 1.0	Run Time Hours and Total Life Hours
btcc	Battery Percentage Indicator
Ir	IR Sensor (On/Off)
UIrE	Wireless Receiver (On/Off)

Id	Wireless ID Code Selector (1-7)
node	6in1 (R,G,B,W,A,UV) or 5in1 (R,G,B,W,A) Mode

Menu:

- **Addr: DMX Address** – Press Enter, then press Up or Down to choose from DMX Address 001-512. Press Enter to save the command.
- **Chnd: Channel Mode** – Press Enter, then press Up or Down to choose from channel 3/4/5/6/8/8A/11/13. Press Enter to save the command.
- **nanu**: Press Enter, Red will be on the display, press Enter again to adjust 0-255 brightness by pressing Up or Down. Press Enter to save and press Up to go to Green, Blue, White, Amber, UV. Adjust from 0-255 to make a custom color. Your custom color will be saved here in nanu.
- **Shnd**: **Color, Auto, Fade** - Press Enter, then press Up or Down to choose Color, Auto, or Fade. Press Enter to select choice.
  - **Color** - press Up or Down to choose pre-set color 1-50.
  - **Auto** - press Up or Down to choose the speed of the Auto change of colors. Slow (1) to Fast (8).
  - **Fade** – press Up or Down to choose Fade 1 through 10. Fast (1) to slow (10).
- **SLnd: Master/Slave** – Press Enter, then press Up or Down to change the command of Master (nast) or Slave (SLAu). Enter to save the command. (NOTE: In order to use the IR Remote, put the CUBEecho™ IP65 HEX in Master Mode. The CUBEecho™ IP65 HEX will not respond to the IR Remote if it is in Slave Mode.)
- **UE 1.0:** Press Enter to see how long the fixture has been on since turning it on. Press Enter again to see the total lifetime run hours.
- **btcc: Battery Percentage Indicator** – Press Enter to see the battery percentage indicator. This is an indicator of the percentage left on the battery on the fixture. Note: the fixture will turn off anywhere from 10-35% on the btcc.
- **Ir: IR Remote** – Press Enter, then press Up or Down to turn On or Off the IR sensor.
- **UIrE: Wireless Receiver** – Press Enter, then press Up or Down to turn on (U-On) or turn off (U-OF) the wireless receiver.
- **Id: Wireless ID Code Selector** – Press Enter, then press Up or Down to choose the ID Code. Red (1), Green (2), Yellow (3), Blue (4), Purple (5), Cyan (6), White (7).
- **node: Mode (6in1) or (5in1)** – Press Enter, then press Up or Down to choose 6in1 (RGBWA+UV) or 5in1 (RGBWA) mode.

Master/Slave- Have one fixture in Master Mode and the rest of the fixtures in Slave Mode. Turn on the Wireless Receiver and put all fixtures on same Wireless ID Code Color. You now control the Master fixture and all the Slave fixtures will do what the Master is doing. On the Master fixture, the display will have one solid red dot and one blinking red dot.

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

To sync the CUBEecho™ IP65 HEX to your XT-Mitter PRO 3.0 transmitter, select the same Wireless ID Code color on all the CUBEecho™ IP65 HEX(s) and select the ID on the XT-Mitter PRO 3.0 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 3.0: 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 CUBEecho™ IP65 HEX IP65. Please reference the DMX chart below for information on the Channel Mode programs.

Infrared remote control: SKU IR Remote Plus (Sold Separately)

To use the IR Remote Plus control on the CUBEecho™ IP65 HEX, first ENABLE the IR 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. All Functions are labeled on the IR Remote Plus. For Example Press Auto to access the Auto programs, Press Speed Button to increase the speed 1-8. Press Sound and then select up or down button to select Sound 1 or Sound 2. These are both distinctive sound modes. Strobe press the button up and down button to select program 1-8 and 8 being the fastest constant speed. Strobe 9 and 10 are a stutter effect with Strobe. Select Fade button and then press speed button to control the speed 1-8 and 8 being fastest of fade program.

DMX Values and Functions:

3CH Mode

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

4CH Mode

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

5CH Mode

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

	Value	
CH4	0-255	WHITE dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	AMBER dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)

6CH Mode

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

8CH Mode

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE 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	Not Used

8ACH Mode

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED (0-255)
CH2	0-255	GREEN (0-255)
CH3	0-255	BLUE (0-255)
CH4	0-255	WHITE (0-255)
CH5	0-255	Amber (0-255)
CH6	0-255	UV (0-255)
CH7	0-255	R, G, B, W, A, UV Master dimmer (0-255)
CH8	0	Strobe (0-255) Slow to Fast

11CH Mode

	Value	RGBWA+UV 18 Watt x 6in1
CH1	0-255	RED dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH2	0-255	GREEN dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH3	0-255	BLUE dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH4	0-255	WHITE dimmer (0-1 Off, 2-255 Dimmer from Dim to Bright)
CH5	0-255	AMBER 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 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	Not Used

13CH Mode

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

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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	Not Used

For more information, please contact Support by email at support@eternallighting.com