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# Quick Start Guide Color Block™ PSU-30



For a full product manual please visit [www.ac-et.com](http://www.ac-et.com)

# 1. Overview

The Color Block PSU-30 is a 2U 19" rack mounted unit that supplies power and data to a maximum of 30 Color Block DB4 or Color Block 2 LED fixtures through 6 XLR4 outputs. It can be controlled in 16 modes via ANSI E1.11 USITT DMX 512-A, or can operate independently as a standalone system.

For the purpose of clarification, the Color Block DB4 is a fixture that contains 4 cells, with each cell comprising of 3 LEDs; the Color Block 2 is a fixture that contains 48 high output LEDs set into 12 single-optic RGBA clusters that are grouped into 4 cells.

**Note:** To ensure proper functionality, Date/Time must be set before operation. Look Store will function when Date/Time are set. Time is reset when battery is replaced or when the PSU-05B is reset.

# 2. Cabling

1. Install the proper male connector to the trailing lead and connect power with input of 100-240V, 50-60 Hz.
2. Connect input data ANSI E1.11 USITT 512-A from an external source or lighting control console through a male XLR-5. A pass through connection is available on the female XLR-5.
3. Connect power and output data through 6 individual female XLR-4 to the Color Block DB4 or Color Block 2 fixtures. A maximum of five daisy-chained Color Block fixtures can be connected to each XLR4 output. Return lines are not required but the total length of each chain must not exceed 60m/~200ft.

**Note:** See diagram in full User Manual.

# 3. Control Menu

The control menu items are accessed via the LCD display with the following controls:

- Right hand button (red) = Enter (hold for 2 seconds to save)
- Left hand button (blue) = Exit without saving
- Wheel = Adjusts values or scrolls through menu items

### Menu Options      Function

**DMX Address**      To set DMX start address, press Enter, turn wheel to adjust DMX start address, press Enter for 2 seconds to save

**Control Mode**      There are 10 DMX controlled modes for the Color Block DB4 system (CB1) and 16 DMX controlled modes for the Color Block 2 system (CB2). Go to "System" and select either "CB1" or "CB2". There are 3 grouping options (Individual, Block, All) with 3 control options for each (FX, HSI and RGB):

Mode	Ch	Group	System: CB1	System: CB2
1	67	Variable	7FX + 20xHSI	7FX + 20xHSI
2	60	Cell	20xHSI	20xHSI
3	60	Cell	20xRGB(w/ *Magic Amber)	20xRGB(w/ *Magic Amber)
4	21	Block	6FX + 5xHSI	6FX + 5xHSI
5	15	Block	5xHSI	5xHSI
6	15	Block	5xRGB(w/ *Magic Amber)	5xRGB(w/ *Magic Amber)
7	9	All	6FX + HSI	6FX + HSI
8	3	All	HSI	HSI
9	3	All	RGB(w/ *Magic Amber)	RGB(w/ *Magic Amber)
10	80	Cell	Not Available	20xRGBA
11	80	Cell	Not Available	20xRGBI(w/ *Magic Amber)
12	20	Block	Not Available	5xRGBA
13	20	Block	Not Available	5xRGBI(w/ *Magic Amber)
14	4	All	Not Available	RGBA
15	4	All	Not Available	RGBI(w/ *Magic Amber)
16	1	Any	Look Select	Look Select

**When DMX is Lost**      If DMX is not detected press Enter, turn wheel to selection, press Enter for 2 seconds to save. **Off** – will snap to off; **Hold** – will hold last valid DMX state; **Trig** – will default to Time Trigger operation; Look 1-42 – will snap to the Look of your choice

### Look Store

There are 42 internal FX Looks (1-9 are preset). To replay a Look, press Enter and scroll through the Looks. 2 ways to record or edit a Look:

- Simple, with DMX console: set to Mode 1. Use DMX console to adjust the internal FX engine. Scroll to Look Store - press Enter, scroll to desired Look location and press Enter for 2 seconds to save.
- Advanced, standalone: (To edit or record without a DMX console, please see the full User Manual available at [www.ac-et.com](http://www.ac-et.com))

### Time Triggers

Press Enter and scroll to Time Trigger – press Enter. Press Enter to toggle between Day, Hour (24), Minutes and Look to be triggered - adjust setting with scroll wheel. Time Triggers will occur on all 7 days unless specified. The triggers will be activated when the mode "When DMX is Lost" is set to Trig.

### Set Day and Time

Press Enter. Press Enter to toggle between Day, Hour (24) and Minutes, scroll wheel to adjust and press Enter for 2 seconds to save.

### Displ Backlight

To set LCD backlight to go off after 5 seconds, press Enter and scroll wheel to On (permanently) or Off (after 5 seconds) and press Enter for 2 seconds to save setting.

### Reset to Default

Press Enter for 2 seconds to reset all menu items to factory defaults: DMX address = 001, Control Mode = 1 (67 channels HSI+FX), DMX Lost = Hold, Looks = default, Display = On, Frequency = 360, System = CB2

### System

To set PSU-05B for the Color Block DB4 (CB1) or the Color Block 2 (CB2) system press Enter, scroll wheel to select CB1 or CB2, press Enter for 2 seconds to save.

### Frequency

360, 600, 1200 and 2400 frequency settings available for the LED scan rate to be synchronised with the video camera. Press Enter, scroll wheel to select frequency, press Enter for 2 seconds to save.

### Sync Mode

Press Enter and use the scroll wheel to select Master or Slave. Press Enter for 2 seconds to save settings.

	Variable Group	Cell Group			Block Group			All Group			Cell Group		Block Group		All Group	
Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Ch1	Group	H-1	R-1	Speed	H-1	R-1	Speed	H-1	R-1	R-1	R-1	R-1	R-1	R-1	R-1	
Ch2	Speed	S-1	G-1	Fan	S-1	G-1	Fan	S-1	G-1	G-1	G-1	G-1	G-1	G-1	G-1	
Ch3	Fan	I-1	B-1	Range	I-1	B-1	Range	I-1	B-1	B-1	B-1	B-1	B-1	B-1	B-1	
Ch4	Range	H-2	R-2	Step	H-2	R-2	Step			A-1	I-1	A-1	I-1	A-1	I-1	
Ch5	Step	S-2	G-2	Int. FX	S-2	G-2	Int. FX			R-2	R-2	R-2	R-2			
Ch6	Int. FX	I-2	B-2	Int.Fan	I-2	B-2	Int.Fan			G-2	G-2	G-2	G-2			
Ch7	Int.Fan	H-3	R-3	H-1	H-3	R-3	H-1			B-2	B-2	B-2	B-2			
Ch8	H-1	S-3	G-3	S-1	S-3	G-3	S-1			A-2	I-2	A-2	I-2			
Ch9	S-1	I-3	B-3	I-1	I-3	B-3	I-1			R-3	R-3	R-3	R-3			
Ch10	I-1	H-4	R-4	H-2	H-4	R-4				G-3	G-3	G-3	G-3			
Ch11	H-2	S-4	G-4	S-2	S-4	G-4				B-3	B-3	B-3	B-3			
Ch12	S-2	I-4	B-4	I-2	I-4	B-4				A-3	I-3	A-3	I-3			
Ch13	I-2	H-5	R-5	H-3	H-4	R-5				R-4	R-4	R-4	R-4			
and so on up to:																
Total	67	60	60	21	15	15	9	3	3	80	80	20	20	4	4	

# 4. Further Information

Please refer to the Chroma-Q Color Block PSU-30 manual for more detailed information. A copy of the manual can be found at the Chroma-Q website – [www.chroma-q.com](http://www.chroma-q.com) – under Support.