

Approvals & Disclaimer



The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Chroma-Q products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. Chroma-Q sole warranty is that the product will meet the Chroma-Q sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

Chroma-Q reserves the right to change or make alteration to devices and their functionality without notice due to on-going research and development.

The Chroma-Q Color Block 2 Plus has been designed specifically for the professional entertainment lighting industry. Regular maintenance should be performed to ensure that the products perform well in the entertainment environment.

If you experience any difficulties with any Chroma-Q products please contact your selling dealer. If your selling dealer is unable to help please contact support@chroma-q.com. If the selling dealer is unable to satisfy your servicing needs, please contact the following for full factory service:

Outside North America:

Tel: +44 (0)1494 446000

Fax: +44 (0)1494 461024

support@chroma-q.com

North America:

Tel: +1 416-255-9494

Fax: +1 416-255-3514

support@chroma-q.com

For further information please visit the Chroma-Q website at www.chroma-q.com.

Chroma-Q is a trademark, for more information on this visit www.chroma-q.com/trademarks.

The rights and ownership of all trademarks are recognised.

Quick Start Guide

Color Block 2 Plus™



For a full product manual please visit www.chroma-q.com


1. Overview

The Chroma-Q™ Color Block 2 Plus™ is a higher output version of the original Color Block 2™ multi-purpose LED fixture that retains the same versatile modular ‘building block’ design, single colour RGBA optics, high light output and theatrical grade dimming to create an exceptional all-round feature set.

The control options incorporate a choice of HSI (Hue, Saturation and Intensity), RGBA (Red, Green, Blue, Amber), RGB (Red, Green, Blue, with *Magic Amber), RGBI (Red, Green, Blue with *Magic Amber and Intensity) control modes, and a dynamic Variable Effects Engine integrated in the software.

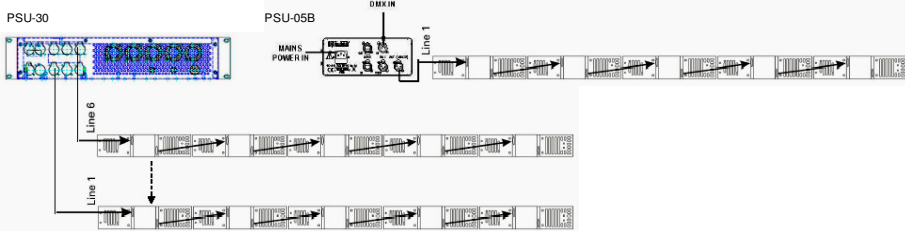
The Color Block PSU05B V2 and Color Block PSU30 V2 are DMX controlled power supply units available for the Color Block 2 Plus fixtures.

2. Safety

 Caution	1.	This product is for professional use only. It is NOT intended for domestic or outdoor use.
	2.	The bright flash of light during power-up may cause epileptic seizure.
	3.	Continuous strobe in the effects may cause epileptic seizure.
	4.	This product must be used with safety cable.

3. Cabling

Connect power and control data from the power supply unit through the XLR 4-pin cable system. Pin 1 = 0VDC, pin 2 = control minus, pin 3 = control plus, pin 4 = +48VDC. The chassis should be ground bonded. A maximum of 5 daisy-chained Color Block 2 Plus fixtures can be connected to one output. Return lines are not required, the total cable length of each chain must not exceed 60m/ ~200ft, and the cable for each adjacent units must not exceed 20m.



4. Fixings

1. Integrated connection system: Connect two fixtures together by mating the two protruding pins from one fixture into the keyhole slots of the other fixture. Slide the fixtures together and align to get past the extended catch plate. Use the butterfly latch to secure the fixtures together tightly (maximum 5 units together).
2. Batten bracket kit for up to 5 fixtures: Used for floor mounting, direct wall mounting and truss mounting in conjunction with hook clamps or half couplers.
3. Yoke kit for single fixture: used for floor mounting direct wall mounting and truss mounting in conjunction with hook clamps or half couplers.
4. Dual mode yoke kit for single fixture: combines the function of the single yoke and the batten bracket.
5. Blinder frame for 4 fixtures: consists of end plates with two complete sets of fixture fixing holes. 1st set holds the fixtures closely together ensuring equal centres for all 16 cells. 2nd set are adjustable to allow the blocks to be splayed out at varying angles.
6. Hinge kit: used to fit between 2 blocks and offer an angle adjustment of 180deg. If used in multiples, unique shapes can be achieved such as hexagons, octagons etc.
7. Wall bracket for single fixture: used to fix a single block to a wall or set piece. Keyhole slots are provided for vertical or horizontal fixing.

5. Emulation Mode

The Color Block 2 Plus is fitted with an internal switch that adjusts the lumen output of the unit to simulate the original LED engine of the Color Block 2 fixtures.

1. Remove the end plate with rivets.
2. The toggle switch on the edge of the PCB is on the horizontal position for normal Color Block 2 Plus operation.
3. Press the toggle switch down to simulate the lumens output of the Color Block 2.
4. Replace the end plate.

6. Control

The Color Block 2 Plus is controlled via ANSI E1.11 USITT DMX512-A through the power supply, which can be set to operate in 16 control modes by selecting “CB2” under “System” in the “Control Menu”. Single cell, block-grouped and all-grouped outputs are available in 5 control options: FxHSI, HSI, RGB (with *Magic Amber), RGBA, RGBI (with *Magic Amber), pre-programmed looks and standalone effects. See relevant PSU user manual for full details.

	Color Block PSU-05B – Version 2.1			Color Block PSU-30 – Version 2.1		
Mode	Ch	Group	Description	Ch	Group	Description
1	67	Variable	7FX + 20xHSI	367	Variable	7FX + 120xHSI
2	60	Cell	20xHSI	360	Cell	120xHSI
3	60	Cell	20xRGB	360	Cell	120xRGB
4	21	Block	6FX + 5xHSI	96	Block	6FX + 30xHSI
5	15	Block	5xHSI	90	Block	30xHSI
6	15	Block	5xRGB	90	Block	30xRGB
7	9	All	6FX + HSI	9	All	6FX + HSI
8	3	All	HSI	3	All	HSI
9	3	All	RGB	3	All	RGB
10	80	Cell	20xRGBA	480	Cell	120xRGBA
11	80	Cell	20xRGBI(*Magic Amber)	480	Cell	120xRGBI(*Magic Amber)
12	20	Block	5xRGBA	120	Block	30xRGBA
13	20	Block	5xRGBI(*Magic Amber)	120	Block	30xRGBI(*Magic Amber)
14	4	All	RGBA	4	All	RGBA
15	4	All	RGBI(*Magic Amber)	4	All	RGBI(*Magic Amber)
16	1	Any	Look Select	1	All	Look Select

Control Options:

1. 3 Channel HSI (Hue, Saturation and Intensity): 2 colour channels for hue (255 colours) and saturation, and a separate intensity channel.
2. 3 Channel RGB (Red, Green and Blue with *Magic Amber): 3 colour channels that directly affect the intensity of the corresponding LED.
3. 3 channel RGB(A) + 1 intensity channel (Red, Green, Blue with *Magic Amber and Intensity): 3 control channels directly affecting the intensity of the corresponding LED, and 1 channel affecting the intensity of all RGB(A) channels.
4. 4 channel RGBA (Red, Green, Blue and Amber): 4 control channels directly affecting the intensity of the corresponding LED.
5. Internal FX engine: The Color Block PSUs feature internal FX engine with 7 variable parameters. See full PSU05B V2 and PSU30 V2 manuals for control details.
Channel description for mode 1, 4 & 7:

Mode 1	Mode 4/7	Effects	Description
Ch 1		Grouping	variable grouping facility to run FX between / within groups
Ch 2	Ch 1	Colour Speed	variable speed of colour scrolling
Ch 3	Ch 2	Colour Fan	variable fan of colour between / within groups
Ch 4	Ch 3	Colour Range	variable limit of spectrum range for colour scrolling
Ch 5	Ch 4	Colour Step	variable control of smoothness of colour scrolling
Ch 6	Ch 5	Intensity Effects	wide selection of intensity fading and snapping effect
Ch 7	Ch 6	Intensity Fan	variable fan of intensity effects

Note: All internal FX are referenced back to the group base HSI colour and intensity levels.

* Magic Amber is the term used for the unit's ability to bring in Amber when mixing colors that require it with the use of only 3 control channels.

7. Further Information

Please refer to the Chroma-Q Color Block 2 Plus manual for more detailed information. A copy of the manual can be found at the Chroma-Q website – www.chroma-q.com – under Support.