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The Chroma-Q Color Block DB4 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.

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Quick Start Guide

Color Block™ DB4



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


1. Overview

The Color Block DB4 is a lighting fixture with modular design and a comprehensive range of fixing options that allow users to create a complete LED system using stock of just one generic fixture type – including battens, blinders and various mounting configurations. Each block features four sets of 3 high output LEDs which produce an intense, powerful light and vibrant colours across the spectrum.

The modular blocks incorporate the latest HSI (Hue, Saturation and Intensity) control, RGB, and Variable Effects Engine software which gives the lighting designer full control over colour and effects combinations.

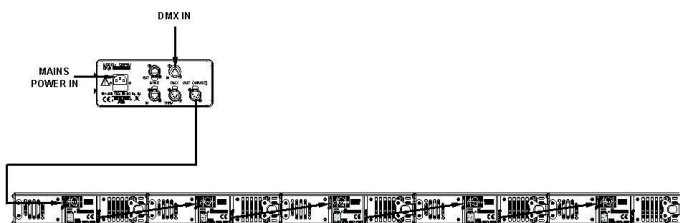
DMX controlled power supplies PSU-05B and PSU-30 are available. The Color Block PSU-05B features 1 XLR4 output with a maximum capacity of 5 daisy-chained Color Block DB4s and the Color Block PSU-30 features 6 XLR4 outputs with a maximum capacity of 5 daisy-chained Color Block DB4s for each output. See full PSU-05B and PSU-30 manuals for control details.

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.

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 DB4 fixtures can be connected to one cable. Return lines are not required and the total cable length of each chain must not exceed 60m/ ~200ft.



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. 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.

5. 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.
6. 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. Control

The Color Block DB4 is controlled via ANSI E1.11 USITT DMX512-A through the power supply. The Color Block power supply units can be set to operate in 9 modes; in 3 grouping options (individual, block, all) with 3 control options on each (FX, HSI, and RGB). See full PSU-05B and PSU-30 manuals for control details.

Color Block PSU-05B	Color Block PSU-30
Mode 1 (67ch)– Cell grouped, 20xHSI+FX	Mode 1 (367ch)-Cell grouped, 120xHSI+FX
Mode 2 (60ch)- Cell grouped, 20xHSI	Mode 2 (360ch)- Cell grouped, 120xHSI
Mode 3 (60ch)- Cell grouped, 20xRGB	Mode 3 (360ch)- Cell grouped, 120xRGB
Mode 4 (21ch)- Block grouped, 5xHSI+FX	Mode 4 (96ch)- Block grouped, 30xHSI+FX
Mode 5 (15ch)- Block grouped, 5xHSI	Mode 5 (90ch)- Block grouped, 30xHSI
Mode 6 (15ch)- Block grouped, 5xRGB	Mode 6 (90ch)- Block grouped, 30xRGB
Mode 7 (9ch)- All grouped, HSI+FX	Mode 7 (9ch)- All grouped, HSI+FX
Mode 8 (3ch)- All grouped, HSI	Mode 8 (3ch)- All grouped, HSI
Mode 9 (3ch)- All grouped, RGB	Mode 9 (3ch)- All grouped, RGB

1. 3 Channel HSI (Hue, Saturation and Intensity) gives 2 colour channels for hue and saturation, and a separate intensity channel. The Hue channel has 255 different colours available and saturation channel specifies the saturation level of the specific colour.
2. 3 Channel RGB (Red, Green and Blue) gives 3 colour channels that directly affect the intensity of the corresponding LED. Colour is mixed by adjusting the levels of the 3 primary colours.
3. Internal FX engine:
The Color Block PSUs feature internal FX engine with 7 variable parameters to create unlimited amount of unique lighting effects. See full PSU-05B and PSU-30 manuals for control details. Channel description for mode 1:
 - Ch 1 Grouping, variable grouping facility to run FX between / within groups
 - Ch 2 Colour Speed, variable speed of colour scrolling
 - Ch 3 Colour Fan, variable fan of colour between / within groups
 - Ch 4 Colour Range, variable limit of spectrum range for colour scrolling
 - Ch 5 Colour Step, variable control of smoothness of colour scrolling
 - Ch 6 Intensity Effects, wide selection of intensity fading and snapping effect
 - Ch 7 Intensity Fan, variable fan of intensity effects

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

6. Further Information

Please refer to the Chroma-Q Color Block DB4 manual for more detailed information. A copy of the manual can be found at the Chroma-Q website – www.chroma-q.com – under Support.