

COLORBLAZE 48, COLORBLAZE 72

USER GUIDE



COLOR KINETICS INCORPORATED
10 MILK STREET, SUITE 1100
BOSTON, MA 02108 USA
TEL 888 FULL RGB
TEL 617 423 9999
FAX 617 423 9998
INFO@COLORKINETICS.COM
WWW.COLORKINETICS.COM

CHROMACORE[®]
BY COLOR KINETICS
OPTIBIN[®]
BY COLOR KINETICS

ITEM# 116-000015-00 (ColorBlaze 72, Black)
116-000016-00 (ColorBlaze 48, Black)

This product is protected by one or more of the following patents: U.S. Patent Nos. 6,016,038, 6,150,774 and other patents listed at <http://colorkinetics.com/patents/>. Other patents pending.

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Specifications subject to change without notice.



Scope of This User Guide

The goal of this user guide is to explain in easily understood language the necessary steps to install ColorBlaze and assure peak performance. Its intended use is for reference only, by fully qualified professionals. This document should never be considered a substitute for any provisions of a regulation or state and/or local code.

Identification and Warnings of Safety Hazards

In accordance with ANSI Z535.4-2002 the following system of identifying the severity of the hazards associated with the products is used:

“WARNING” Potentially hazardous situation which, if not avoided, could result in death or serious injury.

“CAUTION” Potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage. Also used to alert against unsafe practices.

IGNORING A HAZARD WILL VOID ANY WARRANTY.

WARNING: The ColorBlaze power plug must be installed by a qualified professional in accordance with NEC and relevant local codes.

WARNING: Do not attempt to install or use ColorBlaze until you read and understand the installation instructions and safety labels.

WARNING: As dictated by a Structural Engineer and/or local code, install safety cables to ColorBlaze fixtures.

WARNING: When using safety cables, ensure that they comply to the local specifications or the example provided in this user guide.

WARNING: Do not use ColorBlaze if the power cable is damaged. Damaged cables must be replaced by the manufacturer, service agent(s), or a similar qualified person.

CAUTION: ColorBlaze is an indoor only rated product, do not operate outdoors.

CAUTION: Use ColorBlaze in a ventilated area with at least 3 inches of open air on all sides.

CAUTION: ColorBlaze has no serviceable parts. Do not attempt to open the fixture.

CAUTION: Do not use sharp tools near or on the fixture lens.

NOTE: The instructions and precautions set forth in this user guide are not necessarily all-inclusive, all conceivable, or relevant to all applications as Color Kinetics cannot anticipate all conceivable or unique situations.

Owner/User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate ColorBlaze in such a manner as to comply with all state and local laws, ordinances, regulations, and the American Standard Institution Safety Code.

PREPARING COLORBLAZE FOR USE

1. Install the power plug.
2. Connect power.
3. Address the light segments.
4. Connect data.
5. Mount and aim the fixture.

Installing the Power Plug

The on-board, auto-switching power supplies automatically adjusts to any 50 - 60 Hz AC power source from 110 to 240 volts. Install a 2-pole, 3-wire, grounded, 15A plug to the power cable. Consult a qualified electrician if in doubt about proper plug installation.

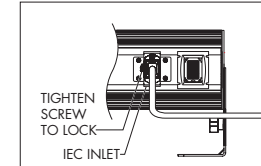
Following the plug manufacturer’s instructions, connect the green and yellow wire to ground (earth), the black wire to live, and the white wire to neutral.

Wire (US)	Pin	Marking
Black	Line	"L"
White	Neutral	"N"
Green/Yellow	Ground	

Connecting Power

WARNING: If you use a cable other than the supplied US UL rated IEC power cable, consult your local distributor to obtain a cable of equivalent size and rating and that meets local standards. Also, the locking mechanism on the IEC Inlet is for a C13 plug. Ensure that the plug on your power cable can be held securely in place in the IEC Inlet. Failure to do so could result in death or serious injury and will void the warranty.

1. Connect the IEC power cable to IEC Inlet on the back of the ColorBlaze fixture.
2. Tighten the screw on the IEC Inlet to hold the power cable in place.



Addressing the Light Segments

IMPORTANT: Before addressing ColorBlaze, you must connect the IEC power cable, the power plug, and supply power to the fixture.

ColorBlaze uses direct DMX data and features on-board addressing tools.

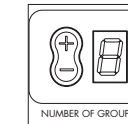
Things to Consider:

Before addressing ColorBlaze, consider the following:

- The number of desired DMX addresses (address groups) per fixture.
- Each light group uses three DMX channels (RGB).
- The DMX Start Channel for the fixture. The defined light groups auto-address sequentially beginning with the DMX Start Channel. To use multiple ColorBlaze fixtures in a sequential application, it is necessary to calculate the last channel used on the previous fixture to determine the DMX Start Channel for the next fixture.

Setting the Address Groups

The first step in addressing the fixture is to set the number of groups. Using the “NUMBER OF GROUPS” selection button, press + or - to scroll to the number of groups for the fixture. Refer to the table below.



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1 = All segments set to the same DMX address

GROUP 1		
001		

2 = Two DMX addresses set to two groups of four segments

GROUP 1		GROUP 2	
001		004	

4 = Four DMX addresses set to four groups of two segments

GROUP 1	GROUP 2	GROUP 3	GROUP 4
001	004	007	010

A = Eight individual DMX addresses

GRP 1	GRP 2	GRP 3	GRP 4	GRP 5	GRP 6	GRP 7	GRP 8
001	004	007	010	013	016	019	022

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1 = All segments set to the same DMX address

GROUP 1		
001		

2 = Two DMX addresses set to two groups of six segments

GROUP 1		GROUP 2	
001		004	

3 = Three DMX addresses set to three groups of four segments

GROUP 1	GROUP 2	GROUP 3
001	004	007

4 = Four DMX addresses set to four groups of three segments

GROUP 1	GROUP 2	GROUP 3	GROUP 4
001	004	007	010

6 = Six DMX addresses set to six groups of two segments

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
001	004	007	010	013	016

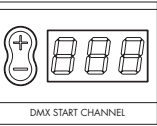
A = Twelve individual DMX addresses

GRP 1	GRP 2	GRP 3	GRP 4	GRP 5	GRP 6	GRP 7	GRP 8	GRP 9	GRP 10	GRP 11	GRP 12
001	004	007	010	013	016	019	022	025	028	031	034

*Examples assume start channel is 001 with three DMX channels per group.

Setting the DMX Start Channel

After setting the number of groups, set the DMX start channel. Using the “DMX START CHANNEL” selection button, press + or - to enter the DMX channel for the first, or only, light group in fixture. All other groups auto-address sequentially beginning with the DMX address entered. See DMX table at www.colorkinetics.com/support/datasheets/dmx.pdf.



Example (ColorBlaze 72): “NUMBER OF GROUPS” set to 3, “DMX START CHANNEL” set to 007: The first four light segments (first group) is set to 007, the next four light segments (second group) set to 010, and the last four light segments (third group) set to 013.

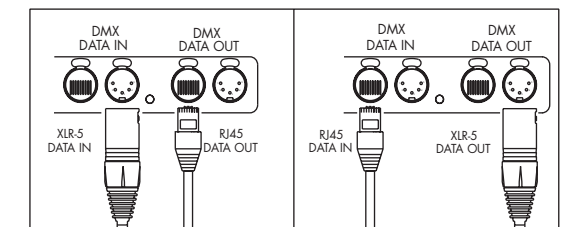
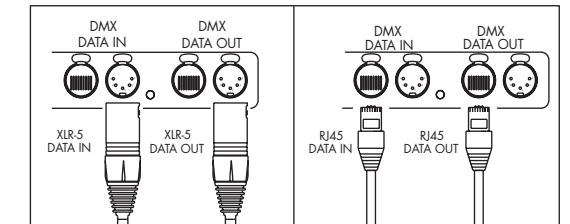
Testing the Lights

After addressing the segments, press and hold the test button. Each light segment flashes white sequentially to verify that each segment is receiving power and data, that the control boards are functioning, and that the LEDs are operational.



Connecting Data

Using an RJ45 or XLR-5 data cable, connect data directly from a DMX controller to the DMX DATA IN ports on the back of ColorBlaze. Data can be daisy chained to multiple fixtures by connecting the DMX DATA OUT port to the DMX DATA IN port of the next fixture using an RJ45 or XLR-5 data cable.



Things to remember:

- DMX data chains do not need to be connector specific. For example: XLR-5 input with RJ45 output and vice versa.
- Maximum DMX data run from DMX source to last fixture in chain is 1000 feet (300 m).
- Place a data terminator in the DMX data port of the last fixture in a chain.

Mounting and Aiming the Fixture

The ColorBlaze mounting brackets are designed for 1/2” mounting hardware and for use with pipe clamps and Cheeseborough clamps.

Mount the fixture as dictated by local or state code. Attach safety cables in suspended installations, or as required. Consult a Structural Engineer or safety professional to ensure proper mounting.

Attaching the Safety Cables

If appropriate, loop the safety cable(s) through the restraining hole(s) located at the end(s) of the ColorBlaze housing as shown. Securely anchor safety cable(s) according to local and/or state codes.

