



Blaster 2R

Beam, Scanner, & Laser Simulator Effects

CKU01-1040 (US) / CKE01-1040 (EU)



USER MANUAL

Introduction

Thank you for purchasing the ColorKey Blaster 2R. Please read these instructions carefully before use. Operating this fixture according to these instructions is important to avoid any possible damage or accidents caused by misuse.

Packing list

- 1x Blaster 2R fixture
- 1x DMX cable
- 1x Power cord
- User Manual

Safety

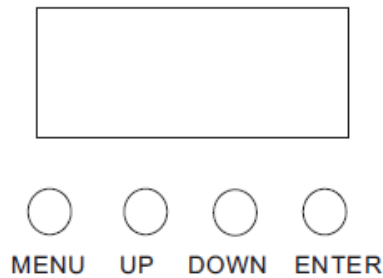
Caution! Opening this unit voids warranty. Contact ColorKey for any service requests.

Warning! To avoid electrical shock, be sure to disconnect power before any service or when moving or setting up the fixture.

Caution! Avoid direct eye exposure with the fixture when on.

- This fixture is for indoor use only.
- This fixture must be installed a minimum distance of 5 meters (16'4") away from any lighted objects.
- Do not install or operate this fixture near flammable materials.
- This device must be installed, operated, and maintained by a qualified professional.
- Do not touch the fixture with bare hands during operation as the surface temperature of the fixture can exceed 60°C (140°F). Turn off power and wait 15 minutes for the fixture to cool before attempting to touch it.
- Please check if the voltage is in accordance with the rated power before installing.
- Do not operate this fixture if the power cord has been damaged. Turn off fixture and replace with a power cord of similar rating.

Display Operation



- MENU: Access the menu/Scroll through menu options
- ENTER: Open/Select the current menu option
- UP: Scroll through menu selection or parameter increase
- DOWN: Scroll through menu selection or parameters decrease

DMX Values

DMX 17 Channel Mode

Channel	Function
1	Pan
2	Tilt
3	Color
4	Gobo
5	Pattern Macros
6	Pattern Rotation (double directions)
7	Pattern Rotation (horizontal/vertical)
8	Pattern Zoom
9	Horizontal Pattern Movement
10	Vertical Pattern Movement
11	Eccentri
12	Eccentri Shaking
13	Prism
14	Prism Auto Rotation
15	Dimmer
16	Shutter
17	Macro Function (active after 5 seconds)

DMX 21 Channel Mode

Channel	Function
1	Pan
2	Pan Fine (16 bit)
3	Tilt
4	Tilt Fine (16 bit)
5	Pan shaking
6	Tilt shaking
7	Color
8	Gobo
9	Pattern Macros
10	Pattern Rotation (double directions)
11	Pattern Rotation (horizontal/vertical)
12	Pattern Zoom
13	Horizontal Pattern Movement
14	Vertical Pattern Movement
15	Eccentri
16	Eccentri Shaking
17	Prism
18	Prism Auto Rotation
19	Dimmer
20	Shutter
21	Macro Function (active after 5 seconds)

Menu Guide & Operation

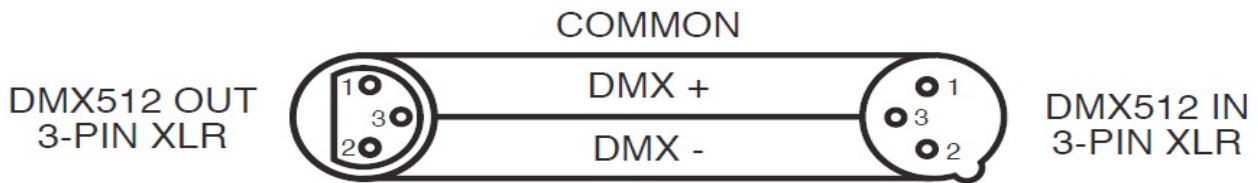
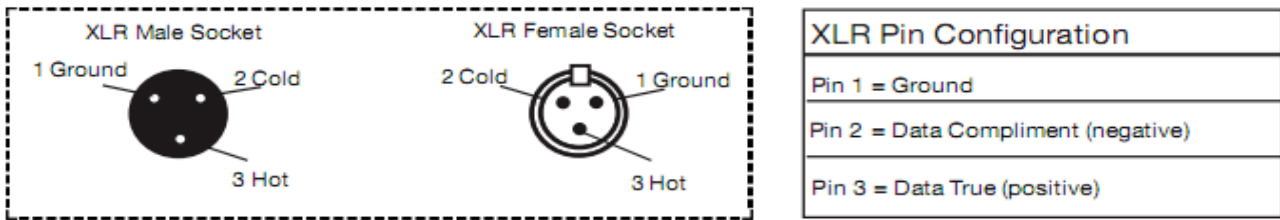
MENU	DMX Address	A001	DMX Address code set
		A512	
	Channel Mode	17Ch	Channel selection
		21Ch	
	Show Mode	Sound	Voice control, auto control
		Auto	
	Slave Mode	Master	Master or Slave mode selection
		Slave	
	Black Out	No	Standby selection
		Yes	
	Sound State	On	Voice control switch
		Off	
	Sound Sense	0--100	Acoustic sensitivity (0 min, 100 max)
	Pan Inverse	No	Motor pan reverse
		Yes	
	Tilt Inverse	No	Motor tilt reverse
	Yes		
	On		

Back Light			LCD display backlight on/off
		Off	
		On	
Lamp On/Off			Lamp switches
		Off	
Auto Test			Test unit
		---°C	Not connected to the temperature sensor
Temp.			
		-20--200°C	Display internal temperature of the unit
Fixture Time		0--999	Total running time
Firmware Version		V1.01	Version numbering
		No	
Factory Defaults			Restore the factory default Settings
		Yes	
		No	
System Reset			Unit reset
		Yes	

DMX Connections

➤ **DMX Cable:**

The Blaster 2R can be controlled via DMX using a 3-pin XLR connection. The standard DMX connection is XLR is: one end connects to the male plug, and the other connects to the female. As below: pin 1: ground, pin 2: negative signal, pin 3: positive signal



Noted: In order to avoid failures and interference signal transmission, we connect a resistance 120Ω ($1/4W$) at the end of the DMX connecting as below:



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance $120\text{ Ohm } 1/4\text{ W}$) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

➤ The Conversion between 3 pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

Master/Slave Mode Operation

Master/Slave

Master/Slave mode allows you to connect multiple units together using one (1) unit to control others in a chain. When a fixture is set to 'Master Mode,' this unit will always act as a controlling unit until it is switched out of 'Master Mode'. The Master unit will send out signal via DMX to Slave units which will react in synchronization. When a fixture is set into 'Slave Mode', this fixture will receive the Master signal. To avoid master signal and DMX signal interference, do not connect DMX when using Master/Slave mode. If using a DMX run longer than 60 meters and/or over 32 units, a signal amplifier may be required.

Troubleshooting

Problem	Solutions
No DMX control	<ul style="list-style-type: none">◆ Make sure that the DMX cable is properly connected◆ Make sure that the DMX controller is operational◆ Check the DMX cable for tears or breaks◆ Make sure that the fixture is in DMX mode
Fixture does not respond to sound	<ul style="list-style-type: none">◆ Make sure that the fixture is in Sound Active mode.

Technical Information

Power supply: AC 100-240V - 50/60Hz

Power consumption: 160W

Light source: 2R YODN Lamp

Life span: 2000 hours

Color temperature: 8000 k

Colors: 14 colors plus white

Gobos: 17 gobos plus open

Beam angle: 3°

Channel: 17/21ch

Control: Auto, Sound active, DMX512, Master/slave

Dimmer: Electronic dimming

Prism: Three-facet prism

Display: LED display

Weight: 16.5lbs (7.5kg)

Dimensions: 14" x 10.5" x 9.5" (358 x 268 x 242mm)

Notice to consumer: ColorKey offers a 1-year limited warranty. Please visit our website at www.ColorKeyLED.com to register your product.

Please note: As we continue to work towards improving our products and your experience as a user, we recommend that you check our website periodically for updates to user manuals and specifications at www.ColorKeyLED.com or you may contact us directly at info@colorkeyled.com.