SCORPIUS FX



CKU-1074

USER MANUAL

ColorKey
creative lighting

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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.

Introduction

Package Contents

- Scorpius FX
- Power Cord
- Quick Release Hanging Bracket
- QR Guide

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.

Service & Support

Your ColorKey product includes a 2-year warranty. For technical support or to register your product, please visit https://www.colorkeyled.com/support/

You can also reach us by phone Monday thru Friday, 8:30am –5pm PST at (818) 578-4030.



Product Overview

Front



1. Moving Head
2. Yoke
3. Arm
4. Carrying Handle
5. DMX LED Indicator
6. Error LED Indicator
7. LCD Display
8. Menu Guide Buttons

Back



1. Moving Head
2. Yoke
3. Arm
4. Carrying Handle
5. DMX Input
6. DMX Output
7. On / Off Switch
8. Fuse
9. Locking Power In
10. Locking Power Out

Mounting

Orientation
Scorpius FX may be mounted in any position; however, make sure there is adequate ventilation around the product.

Rigging

- Before deciding on a location, make sure there is easy access to the product for maintenance and programming.
- Make sure adequate ventilation is provided around the product.
- Make sure that the structure or surface onto which you are mounting the product can support the products weight.
- Mount the product securely to a rigging point, weather an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of the appropriate weight capacity.
- When power linking multiple products, mount the products close enough for power linking cable to reach.
- The rubber feet also serve as floor supports and allow for surface mounting. When mounting the product on the floor, make sure that the product and cables are away from people.

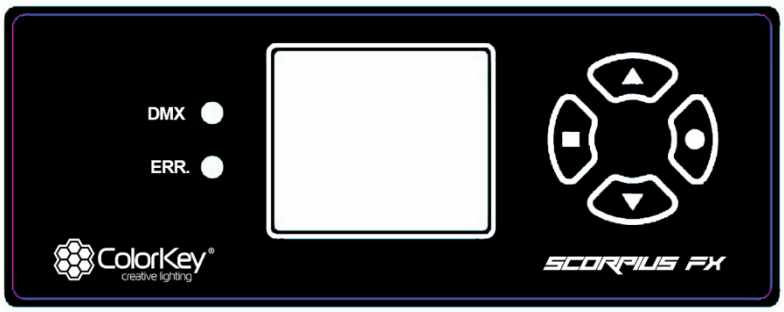
Power Linking

Power Linking
Scorpius FX provides power linking via the outlet located on the back of the product. Up to 4 Scorpius FX units can be power linked.

Powering your product

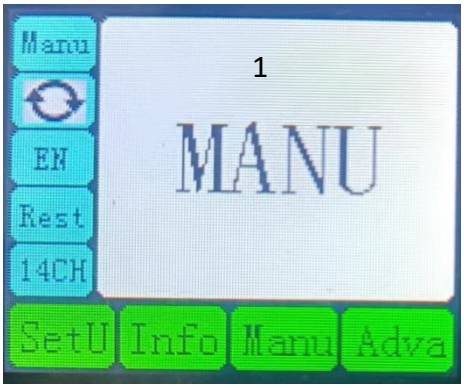
- Always Connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of shock or fire.
- To eliminate unnecessary wear and improve the life of your Scorpius FX, completely disconnect the product from power via the breaker or by unplugging it.

Display Operation



SQUARE:	Access the menu/Scroll through menu options
CIRCLE:	Return to previous menu option
UP:	Scroll through menu selection or parameter increase
DOWN:	Scroll through menu selection or parameter decrease
DMX:	Lit when receiving DMX signal
ERR:	Lit when error has occurred

Menu Guide



1. Display the current **DMX address** or **Run Mode**
2. **Run Mode**: DMX / Auto / Soud / Manu (Press ENTER to Select)
3. Display Reverse (Press ENTER to invert the display)
4. Language Select: EN = English / 中 = Chinese
5. Rest: Reset fixture to initial operating settings
6. 14CH/16CH: Choose DMX Channel for 14ch or 16ch modes
7. SetU: See table below

TOP	Sub-MENU	Description
Run Mode	DMX/Auto/Soud/Manu	Current Operating Mode mode
DMX Address	001-512	DMX Address
Channel Mode	14CH/16CH	DMX Channel
Sensitivity	001-100	Sound sensitivity
DimmerCurve	Linea/Squar/InSqu/S-Cur	Dimmer Curve Shape
DimmerSpeed	Fast/Smoot	Dimmer Speed

Invert X	On/Off	Pan Reverse
Invert Y	On/Off	Tilt Reverse
Exchange X/Y	On/Off	Swap Pan Tilt
Encoder X/Y	On/Off	NA
NoDMX Signal	Clear/Keep	Keep: Keep the last DMX Status when signal is lost
DisReverse	No/Yes	Display reverse
DisBacklight	On/Off	Display backlight
Language	EN/中	Language selection
Motor Reset	OK/Back	All motors reset
Load Default	OK/Back	Restore to factory set Note: Please do not perform the operation when the motor rotates at high speed
Back		Back to Home Page

DMX Values

14CH DMX values

Channel	Value	Function	Description
1	0-255	**Pan**	Pan 0°-540° Move
2	0-255	**Tilt**	Tilt 0°-320° Move
3	0-255	**P/T Speed**	Speed from fast to slow
4	0-127	**Z**	0°-360° Manual Head rotation
	128-191		Automatic
			Clockwise rotate from fast to slow
	192-255		Counter-Clockwise rotate from slow to fast
5	NA 0-31;	**Dimmer**	0-100% linear dimmer from dark to brighter
	32-255		
6	0-255	**Strobe**	1-20Hz strobe from slow to fast

7	NA 0-31; 0-255	**Red**	Red 0-100% linear dimmer from dark to brighter
8	NA 0-31; 0-255	**Green**	Green 0-100% linear dimmer from dark to brighter
9	NA 0-31; 0-255	**Blue**	Blue 0-100% linear dimmer from dark to brighter
10	NA 0-31; 0-255	**White**	White 0-100% linear dimmer from dark to brighter
11	0-5	**LED Macro Function**	No Function
	6-10		Color gradual change
	11-20		Color pulse change
	21-212		Static Color Presets 63 available colors
	213-255		Color jump change
12	0-255	**LED Macro Function Speed**	Speed from slow to fast
13	0-15	**Macro Function**	No Function

	16-127		Auto Running
	128-255		Sound Control
14	0-249	**Reset**	No Function
	250-255		All reset after 5s

16CH DMX values

Channel	Value	Function	Description
1	0-255	**Pan**	Pan 0°-540° Move
2	0-255	**Pan Fine**	Pan Fine
3	0-255	**Tilt**	Tilt 0°-320° Move
4	0-255	**Tilt Fine**	Tilt Fine
5	0-255	**P/T Speed**	Speed from fast to slow
6	0-127	**Z**	0°-360° Manual Head rotation
	128-191		Automatic

			Clockwise rotate from fast to slow
	192-255		Counter-Clockwise rotate from slow to fast
7	NA 0-31;	**Dimmer**	0-100% linear dimmer from dark to brighter
	32-255		
8	0-255	**Strobe**	1-20Hz strobe from slow to fast
9	NA 0-31;	**Red**	Red 0-100% linear dimmer from dark to brighter
	0-255		
10	NA 0-31;	**Green**	Green 0-100% linear dimmer from dark to brighter
	0-255		
11	NA 0-31;	**Blue**	Blue 0-100% linear dimmer from dark to brighter
	0-255		
12	NA 0-31;	**White**	White 0-100% linear dimmer from dark to brighter
	0-255		
13	0-5	**LED Macro Function**	No Function

	6-10		Color gradual change
	11-20		Color pulse change
	21-212		Static Color Presets 63 available colors
	213-255		Color jump change
14	0-255	**LED Macro Function Speed**	Speed from slow to fast
15	0-15	**Macro Function**	No Function
	16-127		Auto Running
	128-255		Sound Control
16	0-249	**Reset**	No Function
	250-255		All reset after 5s

Stand Alone Settings

To use your Scorpius FX without a DMX Controller, use one of the various standalone modes below.

***Please note, we do not recommend using products in standalone mode that are connected to a DMX string and controller. Standalone mode may transmit DMX signals that could interfere with DMX signals from the controller. ***

Automatic Programs

To run the Scorpius FX in Automatic Mode, follow the instructions below:

1. Press (Down) to highlight Run Mode
2. Press (Circle) repeatedly to cycle Run Mode setting to Auto
3. Press (Square) to exit and return to Home Menu

Sound Active Mode

To run the Scorpius FX in sound-active mode, do the following:

1. Press (Down) to highlight Run Mode
2. Press (Circle) repeatedly to cycle Run Mode setting to Soud
3. Press (Square) to exit and return to Home Menu

Sound Sensitivity

To set the Sound Active sensitivity on the Scorpius FX, follow the instructions below:

1. Press (Down) repeatedly to highlight SetU
2. Press (Circle) to enter SetU menu
3. Press (Down) repeatedly to select Sensitivity
4. Press (Circle) to select Sensitivity
5. Press (Up) or (Down) to change Sensitivity value
6. Press (Circle) to save value
7. Press (Square) to exit and return to Home Menu

Manual Mode

Please note, setting a manual mode of operation will allow you to later access it through Run Mode (Manu) setting.

To operate the Scorpius FX manually through the menu, do the following:

1. Press (Down) repeatedly to highlight Manu
2. Press (Circle) to enter Manu menu
3. Press (Up) or (Down) repeatedly to select desired parameter
4. Press (Circle) to select desired parameter
5. Press (Up) or (Down) to change desired parameter value
6. Press (Circle) to save value
7. Repeat steps (3-6) as needed to change desired parameters
8. Press (Square) to exit and return to Home Menu

Invert Pan

To set Pan orientation on the Scorpius FX, follow the instructions below:

1. Press (Down) repeatedly to highlight SetU
2. Press (Circle) to enter SetU menu
3. Press (Down) repeatedly to select InvertX
4. Press (Circle) to select InvertX
5. Press (Up) or (Down) to change InvertX value
6. Press (Circle) to save value
7. Press (Square) to exit and return to Home Menu

Invert Tilt

To set Tilt orientation on the Scorpius FX, do the following:

1. Press (Down) repeatedly to highlight SetU
2. Press (Circle) to enter SetU menu
3. Press (Down) repeatedly to select InvertY
4. Press (Circle) to select InvertY
5. Press (Up) or (Down) to change InvertY value
6. Press (Circle) to save value
7. Press (Square) to exit and return to Home Menu

Swap Pan and Tilt

To set swap the Pan and Tilt orientation on the Scorpius FX, do the following:

1. Press (Down) repeatedly to highlight SetU
2. Press (Circle) to enter SetU menu
3. Press (Down) repeatedly to select Exchange X/Y
4. Press (Circle) to select Exchange X/Y

5. Press (Up) or (Down) to change Exchange X/Y value
6. Press (Circle) to save value
7. Press (Square) to exit and return to Home Menu

Screen Reverse

To set the display orientation on the Scorpius FX, follow the instructions below:

1. Press (Down) repeatedly to highlight SetU
2. Press (Circle) to enter SetU menu
3. Press (Down) repeatedly to select DisReverse
4. Press (Circle) to select DisReverse
5. Press (Up) or (Down) to change DisReverse value
6. Press (Circle) to save value
7. Press (Square) to exit and return to Home Menu

Passcode Protected Adjustments

Scorpius FX has a passcode protected mode that allows the user to calibrate and adjust several of the products operating parameters.

In order to access this mode, do the following:

1. Press (Down) repeatedly to highlight Adva
2. Press (Circle) to enter Adva menu
3. Use (Up or Down) to enter Passcode: 223
4. Press (Circle) select each number
5. Use (Up) or (Down) to highlight Enter
6. Press (Circle) to select Enter

LED Life Hour	5000	
LED Hour Clea	OK/Back	
Reset Adjust	Pan Adjust	-127-128
	Tilt Adjust	-127-128
	Rotate Adjust	-127-128
	Red Adjust	-127-128
	Green Adjust	-127-128
	Blue Adjust	-127-128
	White Adjust	-127-128
Display Maker	Yes/No	
Back		

To adjust the starting position of one of these parameters, follow the instructions below:

1. Access the Protected Adjustments
2. Press (Circle) select each number
3. Use (Up) or (Down) to highlight Enter
4. Press (Circle) to select Enter

Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light sources life and or mechanical wear. To maintain optimum performance and minimize wear, clean your lighting products regularly after extended use. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instruction below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or ISO.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.

Technical Information

- 6pcs 40W RGBW 4in1 LEDs
- High-precision optical lenses
- 2˚ beam angle
- 0~100% Linear dimming
- Strobe speed up to 20Hz
- Control Mode: DMX512, Auto, Master/Slave, Sound Activity
- DMX Channel: 14CH/16CH
- 540˚ Pan
- 320˚ Tilt
- Infinite Head Rotation
- 1.77” color LCD display
- Voltage: AC100-240V, 50/60 HZ.
- Power: 240W
- Dimensions: 13.3 x 10.4 x 8.2 / 338 x 265 x 207 mm
- Weight: 12.8Lbs / 5.8 Kg

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.*