

Pknight



SWB FX 720

user manual

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Introduction

Congratulations and thank you for purchasing the SWB FX 720. The SWB FX 720 is a DMX intelligent, high powered LED fixture. Designed for mobile or permanent lighting of stages, clubs, dance floors and churches. please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit for future reference.

Customer Support

Pknight Products, LLC provides a toll free customer support, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.pknightpro.com for any comments or suggestions.

E-mail: info@pknightpro.com

We will contact you within 24 hours

How To install bracket



Youtube Video Tutorial

scan me to learn to install bracket

REMOTE DEVICE MANAGEMENT

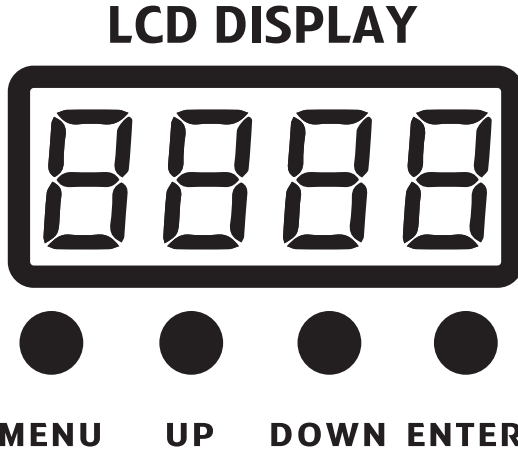
NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, and allows the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

Control Panel



The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made. (See image above)














- **MENU** :To select the functions
- **UP** :To go forward in the selected functions
- **DOWN** :To go backward in the selected functions
- **ENTER** : Select an option or confirm a selection.

Menu Function

LED DISPLAY		FUNCTION
	→	Select the DMX address by UP or DOWN, and click ENTER to save.
	→ 	Three DMX modes(4CH,16CH,168CH),Select the DMX modes by UP or DOWN,and click ENTER to save.CH16 is default
	→	127 RGB built-in programs,Select the built-in program by UP or DOWN,and click ENTER to save.
	→	Adjust the speed of the RGB built-in program by UP or DOWN, s000 is the slowest, s255 is the fastest
	→	63 WHITE built-in programs,Select the built-in program by UP or DOWN,and click ENTER to save.
	→	Adjust the speed of the WHITE built-in programs by UP or DOWN, s000 is the slowest, s255 is the fastest
	→	127 RGBW built-in programs,Select the built-in program by UP or DOWN,and click ENTER to save.
	→	Adjust the speed of the RGBW built-in program by UP or DOWN, s000 is the slowest, s255 is the fastest
	→	Manually set the brightness of the white LED (r000 ~ r255) and press ENTER to save.
	→	Manually set the brightness of the white LED (g000 ~ g255) and press ENTER to save.
	→	Manually set the brightness of the white LED (b000 ~ b255) and press ENTER to save.
	→	Manually set the brightness of the white LED (w000 ~ W255) and press ENTER to save.
		Display temperature, for example, t045 indicates that the current lamp temperature is 45°C

Factory Settings

In case of any address code from A001 to A512, press the MENU button for 5 seconds to enter the factory setting. Factory setting mainly includes the functions of output power, fan setting mode, setting temperature protection point and sending parameters. If you finish the setting, just press the MENU button for 3 seconds to save the setting and exit the setting page.

LED DISPLAY			FUNCTION
	→		Manually set the highest current output of the red lamp beads, r32 is the lowest, r255 is the highest
	→		Manually set the highest current output of the green lamp beads, r32 is the lowest, r255 is the highest
	→		Manually set the highest current output of the blue lamp beads, r32 is the lowest, r255 is the highest
	→		Manually set the highest current output of the white lamp beads, r32 is the lowest, r255 is the highest
	→		If you set it to fan0, the fan will start immediately after power on, and if you set it to fan1, the fan will not start until it reaches a certain protection temperature
	→		Manually set the protection temperature (40°C~70°C) and press ENTER to save.
			If you want to confirm the modified settings and synchronize the settings of other identical lights, just press and hold the menu button for 3 seconds until you exit the factory settings page, note that all lights that need to be synchronized must be the same and connected using an xlr signal line

DMX Modes - 4CH|16CH|168CH

DMX Mode 4CH			
NO.	VALUE	NAME	FUNCTION
1	000~255	Red Dimmer	Outer Red Dimmer, 0% to 100%
2	000~255	Green Dimmer	Outer Green Dimmer, 0% to 100%
3	000~255	Blue Dimmer	Outer Blue Dimmer, 0% to 100%
4	000~255	White Dimmer	Inner White Dimmer, 0% to 100%




DMX Mode|16CH

NO.	VALUE	NAME	FUNCTION
1	000~255	Total Dimmer	Total Dimmer, 0% to 100%
2	000~255	RGB Strobe	Outer Red&Green&Blue Strobe Effects,Slow to Fast <u>Only works for 3ch,4ch,5ch,6ch</u>
3	000~255	Red Dimmer	Outer Red Dimmer, 0% to 100%
4	000~255	Green Dimmer	Outer Green Dimmer, 0% to 100%
5	000~255	Blue Dimmer	Outer Blue Dimmer, 0% to 100%
6	000~255	RGB Mode ^{*A}	127 RGB built-in programs
7	000~255	RGB Speed	Adjust the Speed of <u>RGB Mode</u> ,Slow to Fast <u>Only works for 6ch</u>
8	000~255	W Strobe	Inner White Strobe Effects,Slow to Fast
9	000~255	White Dimmer	Inner White, 0% to 100%
10	000~255	W Mode ^{*B}	63 WHITE built-in programs,
11	000~255	W Speed	Adjust the Speed of <u>W Mode</u> ,Slow to Fast <u>Only works for 10ch</u>
12	000~255	RGBW Strobe	Red&Green&Blue&White Strobe Effects,Slow to Fast <u>Only works for 13ch</u>
13	000~255	RGBW Mode ^{*C}	127 RGBW built-in programs
14	000~255	RGBW Speed	Adjust the Speed of <u>RGBW Mode</u> ,Slow to Fast <u>Only works for 13ch</u>
15	000~255	Background Color ^{*D}	Add Some Background Color <u>Only works for 6ch and 13ch</u>
16	000~255	Background Color Dimmer	Background Color Dimmer, 0% to 100% <u>Only works for 15ch</u>




RGB Mode^{*A}/W Mode^{*B}/RGBW Mode^{*C}/Background Color^{*D}

These parts are described in detail in the table below




DMX TRAITS*A for CH6 - RGB Mode*A

NO.	DMX VALUE	FUNCTION
0	000~001	No function
1	002~003	Effect 1
2	004~005	Effect 2
3	006~007	Effect 3
		
125	250~251	Effect 125
126	252~253	Effect 126
127	254~255	Effect 127




DMX TRAITS*B for CH10 - W Mode*B

NO.	DMX VALUE	FUNCTION
0	000~003	No function
1	004~007	Effect 1
2	008~011	Effect 2
3	012~015	Effect 3
		
61	244~247	Effect 61
62	248~251	Effect 62
63	252~255	Effect 63

DMX TRAITS*A for CH6 - RGBW Mode*C

NO.	DMX VALUE	FUNCTION
0	000~001	No function
1	002~003	Effect 1
2	004~005	Effect 2
3	006~007	Effect 3
		
125	250~251	Effect 125
126	252~253	Effect 126
127	254~255	Effect 127

DMX TRAITS*B for CH15 - Background Color*^D

NO.	DMX VALUE	FUNCTION
1	000~009	Color 1
2	010~015	Color 2
3	016~021	Color 3
4	022~027	Color 4
		
40	238~243	Color 40
41	244~249	Color 41
42	250~255	Color 42

NOTE: Not all RGB modes and RGBW modes can be added background color

DMX Mode|168CH

NO.	VALUE	NAME	FUNCTION
1	000~255	Red Dimmer	Group 1 Red Dimmer, 0% to 100%
2	000~255	Green Dimmer	Group 1 Green Dimmer, 0% to 100%
3	000~255	Blue Dimmer	Group 1 Blue Dimmer, 0% to 100%
4	000~255	Red Dimmer	Group 2 Red Dimmer, 0% to 100%
5	000~255	Green Dimmer	Group 2 Green Dimmer, 0% to 100%
6	000~255	Blue Dimmer	Group 2 Blue Dimmer, 0% to 100%
↓	↓	↓	↓
142	000~255	Red Dimmer	Group 48 Red Dimmer, 0% to 100%
143	000~255	Green Dimmer	Group 48 Green Dimmer, 0% to 100%
144	000~255	Blue Dimmer	Group 48 Blue Dimmer, 0% to 100%
145	000~255	White Dimmer	Group 1 White Dimmer, 0% to 100%
146	000~255	White Dimmer	Group 2 White Dimmer, 0% to 100%
147	000~255	White Dimmer	Group 3 White Dimmer, 0% to 100%
↓	↓	↓	↓
166	000~255	White Dimmer	Group 22 White Dimmer, 0% to 100%
167	000~255	White Dimmer	Group 23 White Dimmer, 0% to 100%
168	000~255	White Dimmer	Group 24 White Dimmer, 0% to 100%

NOTE: We divided all RGB leds into 48 groups and all white LEDs into 24 groups

Technical Features

Light Source:

- 240 Cool White SMD LEDs and 480 RGB LEDs
- 116 Degree Beam Angle
- Color Temperature: Red: 620-630nm. Green: 515-525nm. Blue: 460-470nm. / Cool White: 5500-7000K
- 50,000 Hour Average LED Life

Features:

- 48 x RGB LED zones
- 24 x Cool White LED zones
- 127 built-in RGB LED Program Macros
- 63 built-in Cool White LED Program Macros
- 127 built-in RGBW LED Program Macros
- Max Strobe Rate 30Hz. Min Strobe Rate: 1Hz.
- Adjustable LED Refresh Rates (900~25kHz)
- Display: LCD display with 4-button menu

Control:

- Control Protocol: DMX
- 3 DMX Modes: 4, 16 and 168 channels
- 0-100% Smooth Dimming
- AUTO Mode, Master-Slave Mode, RDM

Connections:

- Data: 3-pin DMX In/Out
- 180 degree mounting bracket system
- Power locking power in/out

Electrical:

- 100-240V 50Hz/60Hz (Auto Sensing)
- Max Power Consumption: 150W
- IP class: IP20

Dimensions / Weight:

- Length: 39.4" (1000mm)
- Width: 2.7" (70mm)
- Height: 5.9" (150mm)
- Weight: 6.39 lbs. (2.9kg)

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