

**LED 400W Fresnel  
CW/WW Spotlight (with barn doors)**

SKU: LL400FRES

**USER MANUAL**



This user manual includes important information for installation and operation. Please read this user manual carefully to install, operate, and maintain the lighting safely and correctly. A verified technician should do the installation and operation.

Please carefully check for any damages caused by transportation.

Before delivery, this device has passed strict quality control and inspection. Please follow the user manual for proper operation. If this fixture is damaged due to operation error or disregard of this manual, the fixture will be out of warranty, and the manufacturer or dealer will not be held responsible.

**Installation:**

This unit is for indoor use only. Use only in a dry location. To prevent or reduce the risk of electrical shock or fire, do not expose to rain or moisture.

Maximum ambient temperature for operation is 104°F. Do not use under or above this range. Turn off the power and allow 15 minutes for the unit to cool down before handling. Do not open the unit within five minutes after switching off.

Allow the unit to cool down for 20 minutes prior to handling. The external housing of the unit may reach up to 140°F.

Keep the fixture at least 1.5ft. away from any combustible material, as it is not suitable for direct installation on these surfaces. The unit must be installed in a location with adequate ventilation, at least 20 inches from adjacent surfaces. Ensure that no ventilation slots are blocked.

We advise that an electrician confirms the safety of the electrical data prior to installation. Power off the fixture before installation or maintenance. Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

**Rigging:**

Fix the clamp on truss.

Pull the safety rope through the holes on the bottom of the base and fasten it on the truss or other fixing point

**Product Specifications:****Light source:**

LED power: 200W cold white/200W warm white (high density and high brightness LED)

Color: 200W cold white/200W warm white

Adjustable color temperature: 2700K-6500K

Color Rendering Index(CRI):  $Ra \geq 97$

Life of LED: > 50,000 hours

**Power supply:**

Input voltage: AC100V-240V 50-60Hz

Power supply certificate: with PFC and ETL certification

Rated power: 400W

**Optics:**

Dimming: 0 - 100% linear dimming

Lens Angle: 15-55°

**Features:**

Zoom mode: Electric Zoom/Manual zoom optional

Case material: aluminum alloy housing

Dimming curve: 4 kinds of dimming curves

Dimming mode: Frequency optional 1K-22

Touch screen: LCD 1.77 TFT display

Control mode: RDM/ DMX 512, master/slave mode, auto run mode, sound control mode, manual mode

DMX channel: 3CH/7CH

**Working environment:**

Ambient temperature: 20°F – 104°F

Heat dissipation system: silent fan

Waterproof grade: IP20

<b>POWER</b>	on	Power indicate
<b>DMX</b>	on	currently DMX signal input
<b>MENU</b>	Go to menu selection	
<b>DOWN</b>	Go to the next option	
<b>UP</b>	Go back to the previous option	
<b>ENTER</b>	Confirm the selected function	

**Touch screen: LCD 1.77 TFT display various function menus**

**LED**

**Dimming Knob:** Dimming function/press to return menu

**Color temperature knob:** Color temperature function/press to enter the main menu

Open the light fixture, press the *MENU* button to enter the *MENU* mode, use the knob to find the menu. When the preset menu is displayed on the display screen, press the *MENU* button to confirm. Use the knob to select the submenu, press the knob to save the settings or automatically return to the upper menu.

**Functions:**

Main menu	Secondary menu	Tertiary menu	Default value
CCT	CCT	3000K--6500K	3000K
	dim	0--100%	100%
	A	0--100%	0%

WB	W	0--100%	0%
	D	0--100%	100%

root	W current	020--255	235
	W current	020--255	235
	temperature	40--80	45
	push		no
macro	color	A/W/WA	WA
	effect	PJ/GI/PT	PJ
	speed	0--100%	50%
	dim	0--100%	100%
DMX	add	001	001
	mode	002/007	007
setting	SG	clear	clear
		keep	
	SS	on/off	on
	language	中文	English
		English	
	bkgrd	R	065
		G	105
		B	230
	DC	linear	linear
		square	
		reversal	
		S line	
	DF	1-22K	14K
	dim mode	stage	stage
		theatre	
		meeting	
	FC	controllable	controllable
		long turn	
	RES	yes/no	no
	LOOK	yes/no	yes

Select DMX Settings, press the MENU knob to enter Menu mode, and use the knob to select:  
DMX Address or Channel mode.

DMX address:

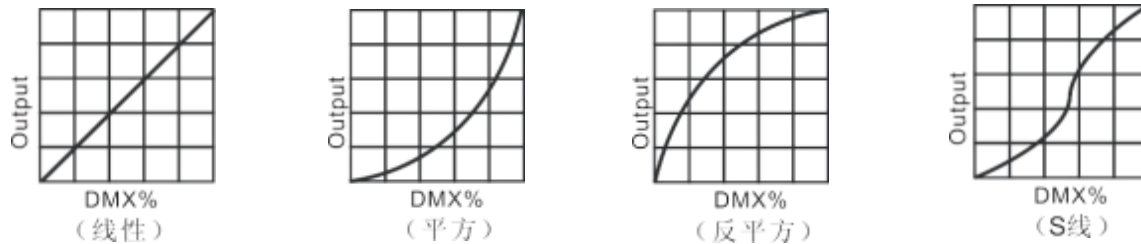
Select the DMX address and press the MENU button to enter. Use the knob to adjust the DMX address (1~512). Once the desired DMX address is selected, press the MENU knob to save.

Channel mode:

Select Channel mode and press the MENU button to enter. Use the knob to select: 2CH

### Dimming Curve

Select the dimming curve and press the MENU knob to enter. Use the knob to select: linear, squared, inverse squared, or S-curve.



Mode 1 (linear): With the increase of DMX value, the increase of light intensity tends to be linear

Mode 2 (square rate): The lines are finer when the light intensity is controlled at a low value, and thicker when the value is high.

Mode 3 (inverse square rate): The lines are thicker when the light intensity is controlled at a low value.

The line is thinner on a high value.

Mode 4 (S-curve): The light intensity is controlled at low and high values with fine lines, and intermediate values with thick lines.

Channel mode	fixture 1 DMX address	fixture 2 DMX address	fixture 3 DMX address	fixture 4 DMX address
3 channel	1	4	7	10
7 channel	1	8	15	22

**Please refer to the chart below to set the address of the first 4 curves:**

## **DMX512 channel:**

### **3 channel**

No.	function	specifications
Channel 1	WW dimmer	WW dimmer, linear dimmer, from dark to light
Channel 2	CW dimmer	CW dimmer, linear dimmer, from dark to light
Channel 3	CCT	2700-6500K

No.	function	specifications
Channel 1	Dimmer all	Dimmer all, linear dimmer, from dark to light

### **7 channel**

Channel 2	Strobe all	Strobe all, from slow to fast
Channel 3	Function selection	0- 5 blank 6- 100 jump 101-150 gradient 151-200 pulse change 201-255 sound control
Channel 4	Function speed	Function speed, from slow to fast

Channel 5	WW dimmer	WW dimmer, linear dimmer, from dark to light
Channel 6	CW dimmer	CW dimmer, linear dimmer, from dark to light
Channel 7	CCT	2700-6500K

**Symbol Instruction on Fixture:**



CE certificate



RoHS certificate