

# SKYSTAR

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PROFESSIONAL SHOW LIGHTING

## THUNDER-250 LED MOVING-HEAD

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USER MANUAL



# SKYSTAR

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GUANGZHOU LIGHTSTAR LIGHT CO.,LTD

[Http://www.lightskystar.com](http://www.lightskystar.com)

## 1.INDEX

Many thanks for choosing THUNDER-250 moving head.The design&production are passed through the full quality control to ensure the fineness ability.

This manual covers important information about installation&operation of this projector.Please read this user manual carefully before installing or operating this projector.Please do follow the safety instruction.list as below carefully and keep this manual in a safety place for future reference.

Note:As part of our ongoing commitment to continuous products development,company will keep the right to improve this products, the information in this menu may be changed in the future,the company reserve the right to change the data without any advise.

## 2.Packing

2.1 The packing of the series of products is paper carton,the flycase can order.

2.2 To open the carton

First please open the carton and take out the relative accessories, Take out the projector from the polybad and put it on a very smooth & horizontal surface place for the next operation.

Attention:Do not press the plastics parts to avoid any damage and distortion.

2.3 Packing list

The following parts are packed together with the projector:

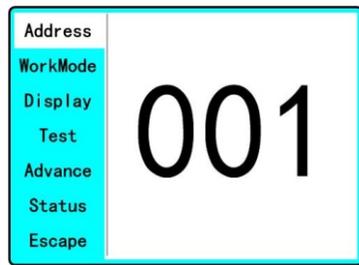
<b>Attachment</b>	
<b>DMX cable</b>	<b>1pc</b>
<b>User manual</b>	<b>1pc</b>
<b>Moutnting Bracket</b>	<b>2pc</b>

### 3. Set DMX Address

Click and select the "ADDR", can enter the page of DMX address setting, range from 1 to 512, the address code shouldn't be not greater than (512- channels quantity), otherwise the light will not be controlled. Following is the operation:

Enter the page of DMX address, as shown in photo 1, click the blank area in right side of display will pop-up dialog modify value, then click 'ENTER' to confirm and save DMX address code.

photo 1



### 4. Set Light work mode

Enter the page of 'WORK MOD' as shown in photo 2 and modify setting. Can set light work mode, control lamp and DMX channel mode..

Light includes 3 work mode: DMX MODE, AUTO RUN and SOUND MODE, Parameter definition as following:

**DMX Mode:** Under this mode, the light receive data from the DMX controller and move.

**AUTO RUN:** Under this mode, light will run with inside code(data), ignore data from DMX controller.

**SOUND Ctrl:** Under this mode, light ignore data from DMX controller., When there is a strong sound in stage, the light will run a scene, otherwise it will keep the last scene.

**M/S Choose:** 'M/S Choose' is available when light just in 'AUTO RUN' or 'SOUND Ctrl' mode. If this item is set as 'OFF', the light don't send data to other light via DMX Cable. When 'ON', the data will send to other slave light immediately.

**Lamp control:** Turn on lamp when this item is set 'ON', otherwise, turn off lamp. The gap between operation is limited to 30 second.

**Channel mode:** Light support 2 DMX Channel mode: sample or extend.

## CHANNEL MENU:

THUNDER-250 DMX Channel Control	
CH1 Pan	0 Pan 255 0° 540°
CH2 Tilt	0 Tilt 255 0° 250°
CH3 Pan Fine	0 Pan 255 0° 3.6°
CH4 Tilt Fine	0 Tilt 255 0° 3°
Ch5 X/Y Speed	0 X/Y Speed Fast to slow 255
Ch6 Strobe	0 240 241-255 [Strobe icons]
Ch7 Dimmer	0 240 241-255 [Dimmer slider]
Ch8 Color	0-14 15-29 30-44 45-59 60-74 75-89 90-109 110-127 128-255 [Color wheel]
Ch9 Color Fine	0 Tilt 255 0° 3°
Ch10 GOBO	0 1.28-255 [Gobo icons]
Ch11 GOBO	0-14 15-29 30-44 45-59 60-74 75-89 90-109 110-127 128-255 [Gobo icons]
Ch12 GOBO Automatic	0 63 64 128 129 255 [Gobo icons]
Ch13 Prism	0 31 32 255 [Prism icons]
Ch14 Prism Automatic	0 Stop Long Short [Prism icons]
Ch15 Atomization	0 255
Ch16 zoom	0 255
Ch17 Focus	0 255
Ch18 Focus Fine	0 255
Ch19	NOP
Ch20 Reset	255 Later 2s System Reset

## TECHNICAL PARAMETER:

VOLTAGE: AC100- 240V 50/60Hz

LIGHT SOURCE: 250W ENGINE LED

POWER CONSUMPTION: 300W

RATED LIFE: 30,000~500,000hours

BEAM ANGLE(ZOOM): 3° -38°

1 COLOR WHEEL: 9 colors+open, half color effect,

bi-directional rainbow effect at variable speed

1 ROTATING GOBO WHEEL: 7 rotating gobos+open,

bi-directionally rotating at variable speed

1 FIX GOBO WHEEL: 9 fix gobos+open,

bi-directionally rotating at variable speed

1 PRISM WHEEL: 4-facet prism, bi-directionally rotating,

at variable speed

FOCUS: Linearly adjustable

DIMMER: 0~100% linearly adjustable

WASH: 0~100% adjustable

STROBE: 0.5~20 flash per second, speed adjustable

PAN AND TILT:Smooth, automatic Pan & Tilt

position correction, speed adjustable

RANGE: Pan-540° ,Tilt-270°

VECTOR MODE: Color+GOBO+Prism+XY Vector

CONTROL PROTOCOL: DMX 512, 3 pin interface

CHANNELS: 16/20CH

FIXTURE DIMENSION: L295×W205×H555(mm)

PACKING DIMENSION: L380×W320×H600(mm)

NET WEIGHT: 12.5KG

GROSS WEIGHT: 14.5KG

photo 2

Address	DMX Ctrl	✓
WorkMode	Auto Run	
Display	Sound Ctrl	
Test	M/S choose	OFF
Advance	Lamp On	OFF
Status	Channel Mode	sample
Escape		

### 5.Set display

Light support 2 language, rotation display, Enter page as shown in photo 3 set parameter following:

Language: Select display as simplified Chinese or English.

Screen Saver: when panel is idle(these is no operation in 10 second), displayer will enter saver status. When set as 'mode 1', saver status is close display, as 'mode 2' saver status will display DMX address code(DMX MODE) or display LOGO (AUTO RUN or SOUND CTRL). As 'OFF', keep light up displayer and show main menu.

Screen Rotation: rotate displayer.

Touch enable: Disable or enable touch function, when disable, use encoder to operate light and set parameter.

Touch adjust: adjust touch function, normally, not enter this item.

photo 3

Address	Language	中文
WorkMode	Screen saver	mode 1
Display	Screen rotation	OFF
Test	Touch Enable	ON
Advance	Touch adjust	
Status		
Escape		

## 6. Test light

Enter the page as shown in photo 4, Light will into test mode, in this mode, the light does not receive the data for DMX controller.:

PAN: range for 0 to 255;  
 TILT: range for 0 to 255;  
 FOCUS: range for 0 to 255;  
 COLOR: range for 0 to 255;  
 GOBO: range for 0 to 255;  
 PRISM: range for 0 to 255;  
 FROST: range for 0 to 255;;  
 STROBE: range for 0 to 255;.

photo 4

Address	PAN	000
WorkMode	TILT	000
Display	FOCUS	000
Test	COLOR	000
Advance	GOBO	000
Status	PRISM	000
Escape	FROST	000
	STROBE	000

## 7. Set light run parameter

Enter the page as shown in photo5 , set the parameter of light:

Pan Invert: Reverse PAN move.

Tilt Invert: Reverse TILT mover.

Rectify enable: set as 'OFF', PAN or TILT will disable position rectify function. As 'ON', when PAN or TILT lose steps, light will rectify auto.

Pan Offset: Set PAN original position.

Tilt Offset: Set TILT original position.

Lamp up when: Select lamp on mode, includes 3 mode: power on, after reset done and manual;

Factory setting: restore all parameter to factory setting.

photo 5

Address	PAN Inset	OFF
WorkMode	TILT Inset	OFF
Display	Rectify Enable	ON
Test	PAN Offset	008
Advance	TILT Offset	020
Status	Lamp on when	pwr on
Escape	Factory Setting	

## 8. View status

Enter the page as shown in photo6 :

View light current status, version;

DMX Clr: Click to clear all DMX data to '0'.

SysRst: Click to reset light.

photo 6

Address	Work Mode	DMX ...
WrokMode	Address	001
Display	Version	B5R.1.1 16n
Test	Elapse	000H 04M
Advance	Tatol	00000H 04M
Status	<input type="button" value="DMX Clr"/> <input type="button" value="SysRst"/>	
Escape		