

# Thunder M50 IP

## User Manual



**Guangzhou Mitek Light Co.,LTD**

Email: [info@miteklight.com](mailto:info@miteklight.com)

Website: [www.miteklight.com](http://www.miteklight.com)

Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

## TECHNICAL PARAMETERS

### Light source

Power Voltage: AC 100-240V, 50/60Hz

Power Consumption: 1000W

Light Sources: 50\*20W RGBW 4in1 High brightness LED

### Optical

Color Mixing: RGBL Color Mixing

CTO:2700-10000K DMX Diffuser

CRI: Ra≥85

Light source life: 50000 hours

Beam angle: 25°/45°

### Controls

DMX Channel: 13/33CHs

Control Modes: DMX512, Auto, Master-Slave, Music

Display: Illuminated graphic LCD

Protocol: Art-Net, DMX-512, RDM

RDM: Bidirectional communication

Display: LCD Display

### Effect

Dimmer: 0-100% linear dimmer

### Construction

Tilt Movement : 185°

Cooling: Temperature controlled, overheating protection

Construction

DMX In/Out socket: 3-pin XLR waterproof in/out Power Socket: Waterproof powercon In

Art-Net In/Out socket

Protection Rating: IP65

### Weight&Dimension

Product size: 40.4 \* 20.2 \* 35cm

Net Weight: 15kg

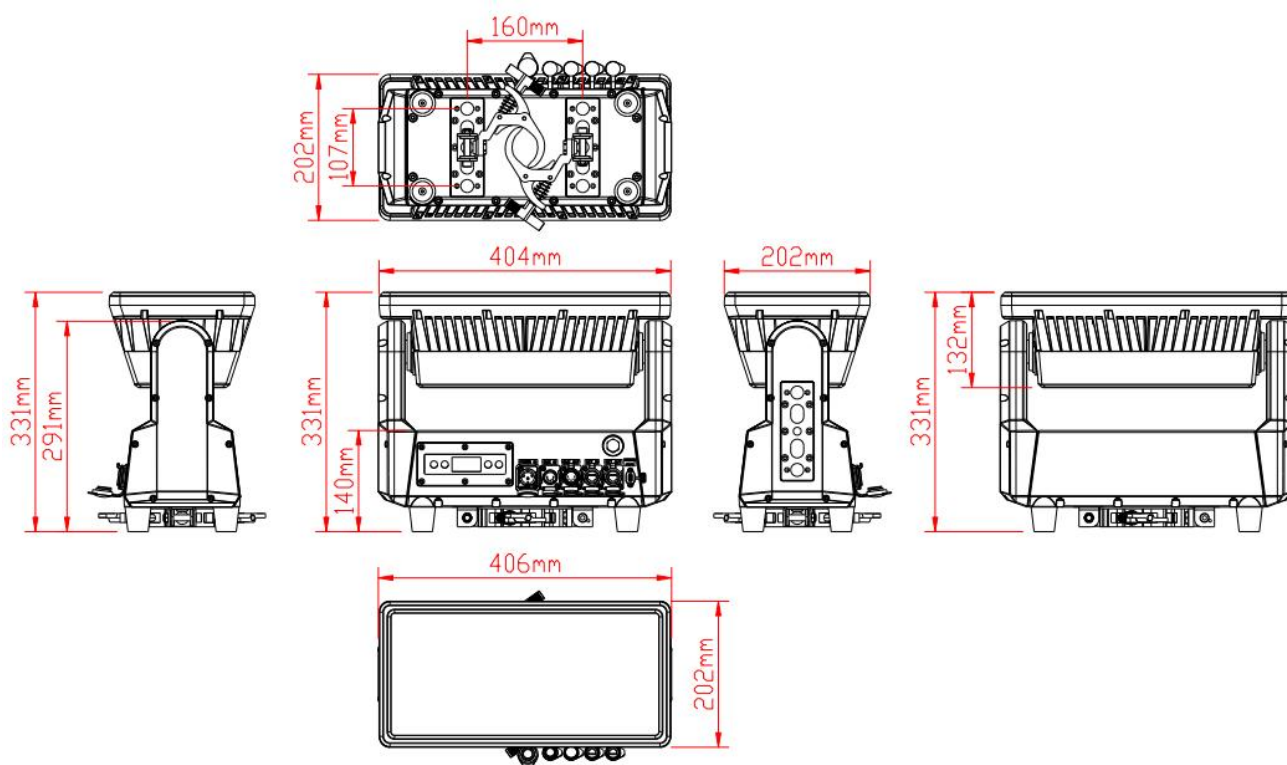
Carton packaging:50\*25\*44cm (1in1)

Gross Weight: 17kg

Flycase packaging: 117\*51\*62cm(4in1)

Gross weight: 87kg

## SIZE DRAWING

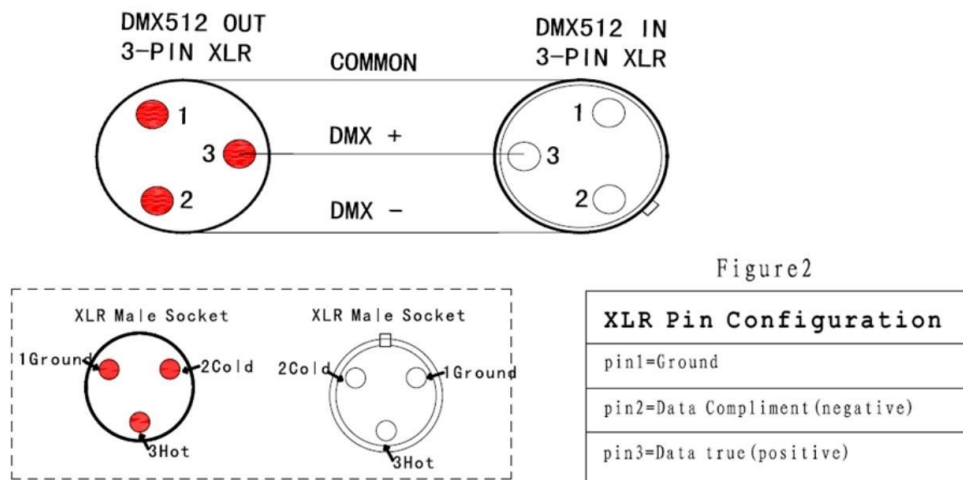


## LUX Data

5M Distance		
Color	Without Frost(Lux)	Frost(Lux)
R	1620Lm	197Lm
G	2400Lm	264Lm
B	391Lm	40.5Lm
W	3180Lm	378Lm
Full On	6320Lm	764Lm
10M Distance		
Color	Without Frost(Lux)	Frost(Lux)
R	375Lm	58.9Lm
G	616Lm	82.3Lm
B	102Lm	13.7Lm
W	825Lm	112Lm
Full On	1650Lm	224Lm

## How to Control The Device

The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. connect several lights together, dmx in and dmx out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)



## Display:

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

Set DMX Address Code

1. Press **"Menu"** to "Set DMX Address", and press **"ENTER"** keys to enter into
2. Show "Set DMX Address DMX Address:001", Press the **"UP"** and **"DOWN"** keys to amended
3. Press **"ENTER"** keys to save and Exit, Press the **"MENU"** Keys does not save and Exit
4. Functions setting via LCD display panel as below:

Options	Instructions	
Protocol	DMX512	Receive dmx signal
	AUTO DMX512	Automatic dmx and network signals
	Art-Net	Art-Net
	sACN	sACN
	AUTO RUN	Auto Effect
DMX Address	001-512	Press "OK" to enter the editing state. Select the hundred digit and press the Up and Down keys to change the address code. Press "OK" again to select the ten edit. Press the "OK" key again to select a bit for editing. Press again to exit the editing state
DMX Channel	13CH/33CH	Channel Mode
Static	Tilt	Tilt adjustable
	Red	Red brightness adjust
	Green	Green brightness adjust
	Blue	Blue brightness adjust
	Lemon	Lemon brightness adjust
Tilt Calibration	Adjust the reset position of the tilt motor to make up for the error on the hardware installation. The adjustment range is -128 to +127, and +0 indicates that there is no adjustment.	

Options	Instructions	
Tilt Reversal	Yes/No	Tilt Reversal movement
Dimmer Mode	Off	
	Mode 1	
	Mode 2	
	Mode 3	
Fan Mode	Auto	Fan Auto
	Open	Fan open
Display Reversal	Reversal	Display Reversal
Backlight	2 Minutes	The screen goes black for 2 minutes
	30 Seconds	The screen goes black for 30 seconds
	10 Seconds	The screen goes black for 10 seconds
	Always on	The screen keep on
Language	Chinese/English	Chinese and English switching
Key lock	Open/Off	The key lock opens and closes
Art-Net Setting	domain	Domain setting
	IP	IP setting
	subnet	Subnet setting
Info	LED temperature	Displays led temperature
	System error	The system error information is displayed
Factory Set		Press the <b>OK</b> key twice to restore factory Settings

## DMX Channel Table

### DMX 512 13CHs

CH	Function	Value	Effect
1	Tilt	000-255	Tilt
2	Tilt Fine	000-255	Tilt Fine
3	Dimmer	000-255	0-100% linear dimmer
4	Strobe	0-003	Close
		4-200	Strobe speed
		201-255	Random strobe
5	Red	000-255	Brightness from dark to bright
6	Green	000-255	Brightness from dark to bright
7	Blue	000-255	Brightness from dark to bright
8	Lemon	000-255	Brightness from dark to bright
9	CTO	000-009	None
		010-255	2700-10000K Every 3 values 1 color temperature
10	Marco	000-009	None
		010-049	Mixing colors
		50-255	Effects
		201-255	Color combination
11	Speed	0-255	Marco speed slow to fast
12	Reset	000-005	None
		006-255	Reset after 5s
13	Frost	000-255	DMX Frost

## DMX 512 33CHs

CH	Function	Value	Effect
1	Tilt	000-255	Tilt
2	Tilt Fine	000-255	Tilt Fine
3	Dimmer	000-255	0-100% linear dimmer
4	Strobe	0-003	Close
		4-200	Strobe speed
		201-255	Random strobe
5	Red	000-255	Brightness from dark to bright
6	Green	000-255	Brightness from dark to bright
7	Blue	000-255	Brightness from dark to bright
8	Lemon	000-255	Brightness from dark to bright
9	CTO	000-009	None
		010-255	2700-10000K Every 3 values 1 color temperature
10	Marco	000-009	None
		010-049	Mixing colors
		50-255	Effects
		201-255	Color combination
11	Speed	0-255	Marco speed slow to fast
12	Reset	000-005	None
		006-255	Reset after 5s
13	Frost	000-255	DMX Frost
14	Red Group 1	000-255	Brightness from dark to bright
15	Green Group 1	000-255	Brightness from dark to bright
16	Blue Group 1	000-255	Brightness from dark to bright
17	Lemon Group 2	000-255	Brightness from dark to bright
18	Red Group 2	000-255	Brightness from dark to bright
19	Green Group 2	000-255	Brightness from dark to bright
20	Blue Group 2	000-255	Brightness from dark to bright
21	Lemon Group 2	000-255	Brightness from dark to bright
22	Red Group 3	000-255	Brightness from dark to bright
23	Green Group 3	000-255	Brightness from dark to bright
24	Blue Group 3	000-255	Brightness from dark to bright
25	Lemon Group 3	000-255	Brightness from dark to bright
26	Red Group 4	000-255	Brightness from dark to bright
27	Green Group 4	000-255	Brightness from dark to bright
28	Blue Group 4	000-255	Brightness from dark to bright
29	Lemon Group 4	000-255	Brightness from dark to bright
30	Red Group 5	000-255	Brightness from dark to bright
31	Green Group 5	000-255	Brightness from dark to bright
32	Blue Group 5	000-255	Brightness from dark to bright
33	Lemon Group 5	000-255	Brightness from dark to bright

## Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

- a. The unit does not work/ no light and the fan does not work
  1. Check the connection of power and main fuse.
  2. Measure the mains voltage on the main connector.
  3. Check the power on LED.
- b. Not responding to DMX controller
  1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
  2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
  3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
  4. Try to use another DMX controller.
  5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

## Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

## REMARK

The product has perfect performance and integrity packing.

All users should be strictly comply with the warning and operating instructions as stated.

Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.