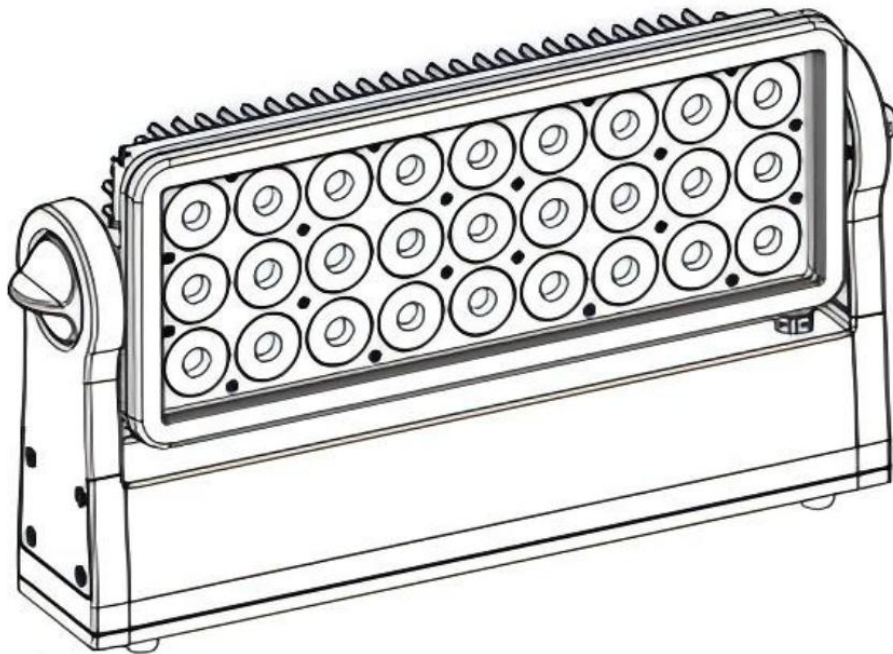


Thunder P27 IP

User Manual



Guangzhou Mitek Light Co.,LTD

Email: info@miteklight.com

Website: www.miteklight.com

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

TECHNICAL PARAMETERS

Light source

Voltage & frequency: 100~240VAC , 50~60Hz

Light Source : 350W RGBW LED

Luminous Flux : 14800Lm (25°)

Color Temperature : 2400K~8000K

CRI : Ra \geq 90,R9 \geq 90

Optical

Beam Angle : 8° /15° /25° /45°

Tilt : Manual rotation of 130°

Controls

Control mode: DMX512/Wired RDM/W-DMX

DMX Channel: 4CH/7CH/8CH

Display: OLED display with 4 touch buttons

Renovate rate: 600Hz/1200Hz/2000Hz/4000Hz/6000Hz/25KHz

Power connection : Seetronic,IP65 PowerCon input/output, \leq 6 sets in series @230V

Signal connection: Seetronic,IP65 XLR 3-Pin signal cables input/output, \leq 32 in series

Power rating: 350W@230V

Power factor : 0.95/230V

Effect

Color system: RGBW mix

Pixel matrix : Integral control

Strobe : 0~20Hz

Dimmer : 3 dimmer curves,0~100% dimming

Construction

Protect grade: IP65

Working environment : -20~45C

Heat dissipation system: Die-cast aluminum, black (color customizable)

Install: Standing on the ground, vertical hanging, side hanging

Weight&Dimension

Product Size: 465*80.3*239.8mm

Package: 538*320*180mm

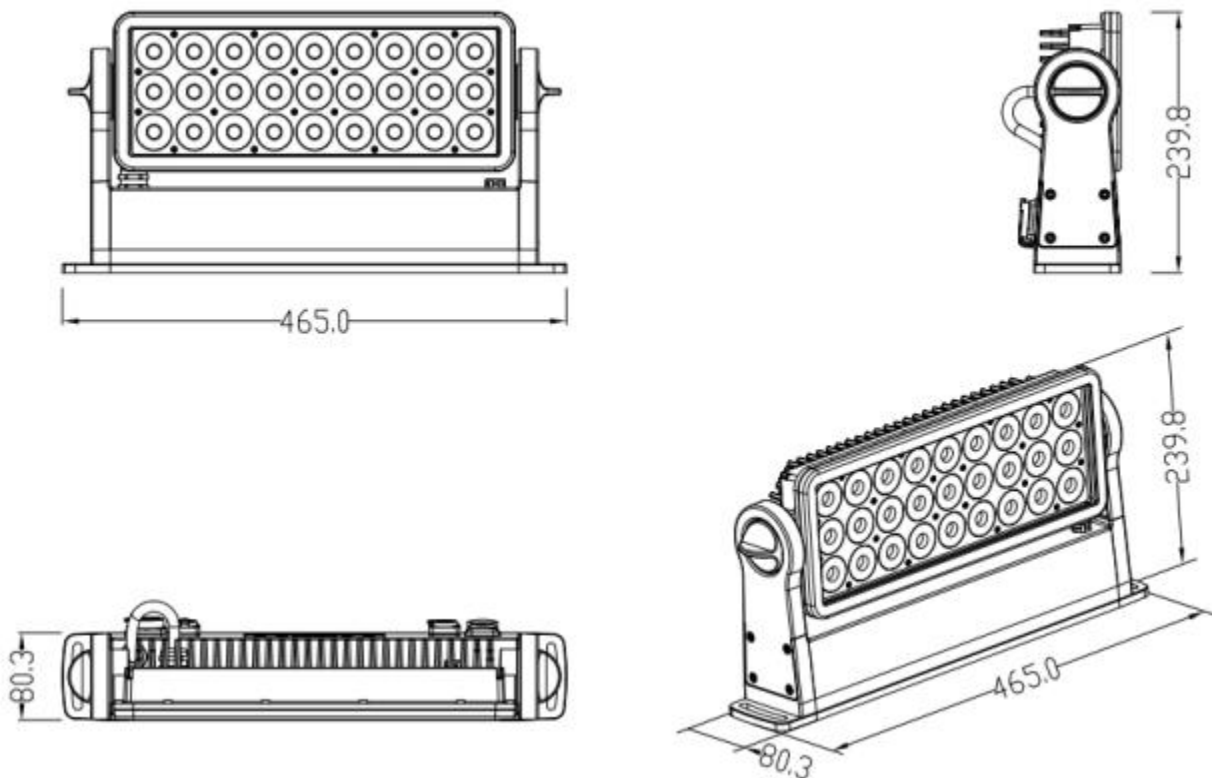
Weight: N.W.: 6.6 kg; G.W.: 7.62Kg

Accessory

Standard: EU IP65 Power cord 1PCS; Manual 1PCS

Optional : Atomization: (20° /30° /40° /10x60° /30x60° atomization suit)/ Base bracket / Barndoor

SIZE DRAWING



Safety instructions



All products are well packed prior shipping, please use the fixtures as to the manual. Machine failure due to human causes is not covered in the warranty.

Caution

When unpacking and before disposing of the carton check there is no transportation damage before using the light.

Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The projector is for indoor and outdoor use, IP65.

Do not install the fixtures onto inflammable surfaces directly.



The fixture is only intended for installation, operation and maintenance by qualified personnel. Do not project the beam onto inflammable surfaces, minimum distance is 3meter. 3m

Avoid direct exposure to the light from the lamp. The light is harmful to the eye.

Do not attempt to dismantle and/or modify the projector in any way.

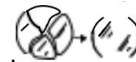
Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the fixture.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards. Do not connect this device to any other types of dimmer apparatus.

The projector should always be installed with a secondary safety fixing. A safety cord is supplied for this; it should be attached as shown in “installing the projector” section.

Shields and lens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.

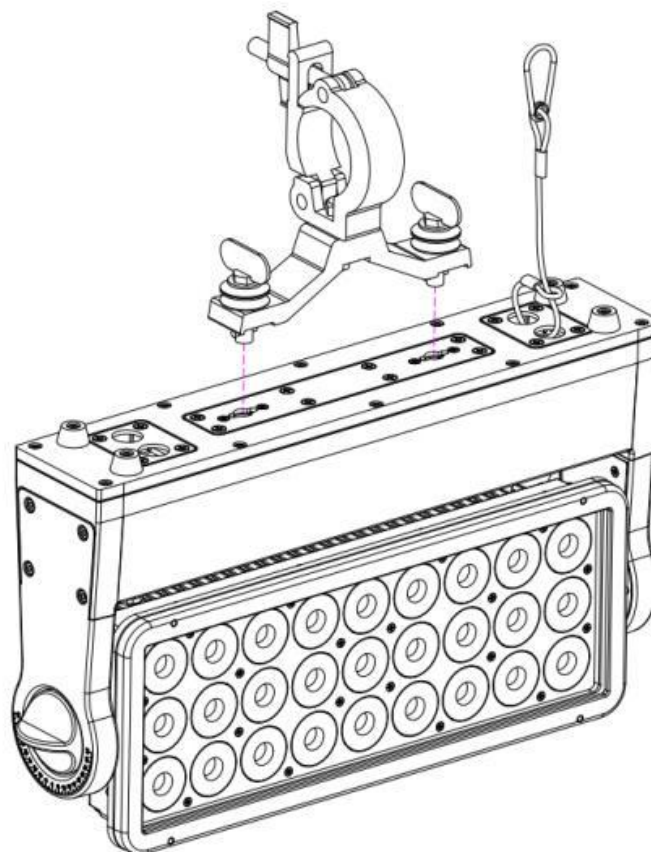


Exterior surface temperatures of the luminaire after 5 minutes operation is 45C, when steady state is achieved 70C There is no user serviceable parts inside the projector, do not open the housing and never operate the fixture with the covers removed.

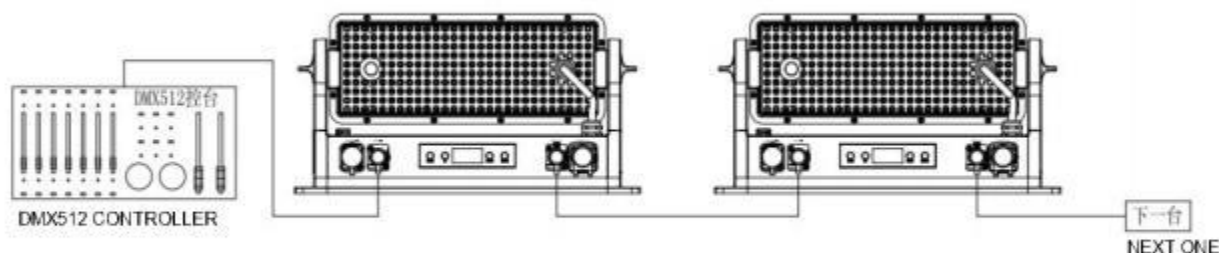
If you have any questions, don't hesitate to consult your dealer or manufacturer.

Always disconnection from Power before the device's installation, cleaning and maintenance.

FIXTURE STRUCTURE AND INSTALLATION



Signal cables connection



Signal connection instructions



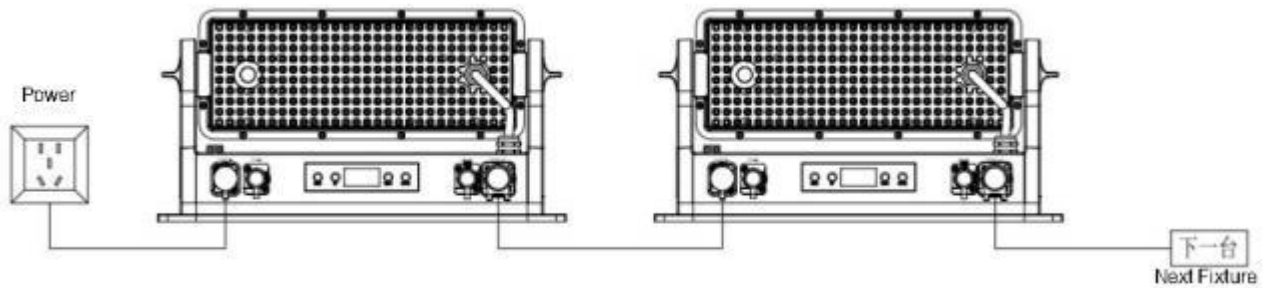
- To reduce signal errors and avoid signal weakening and interference during transmission, one resistance of 120 Ohm (0.25W) can be used to link the pin2 and pin3 of the DMX output terminal of the last fixture.
- Connect the fixtures with XLR signal cable, connect one by one as DMX INPUT –DMX OUTPUT—DMX INPUT...and so on.
The signal cables can only be connected in series, nor parallel.
Because the DMX512 signal transmission speed is very fast, when the signal cables is damaged, the welding is broken and bad connect, it will affect the signal transmission, leading to the system closed.
- When some of the fixtures power are disconnected, the connection of DMX cables output and input is bypass, so as to maintain the connection of the DMX cables.
- Each fixture has an address code to receive signal from the console.
- The terminal of the DMX512 system needs to be with a terminal equipment to reduce errors in signal transmission.

DMX Address Code Setting

Channels	Address code	The 1 st fixture	The 2 nd fixture	The 3 rd fixture	The 4 th fixture
4CH	001-004	001	005	009	013
7CH	001-007	001	008	015	022
8CH	001-008	001	009	016	023

(Referring to the figure above) More fixtures from the 4th set; address code according to the DMX channel, and so on

Power Connection



POWER IN



POWER OUT

Using Power in/out connector

Connect the power cord hand in hand

Attention: Due to power reason ,one 1.5 square wire power cable can connect not more than 6 sets (230V)



Caution

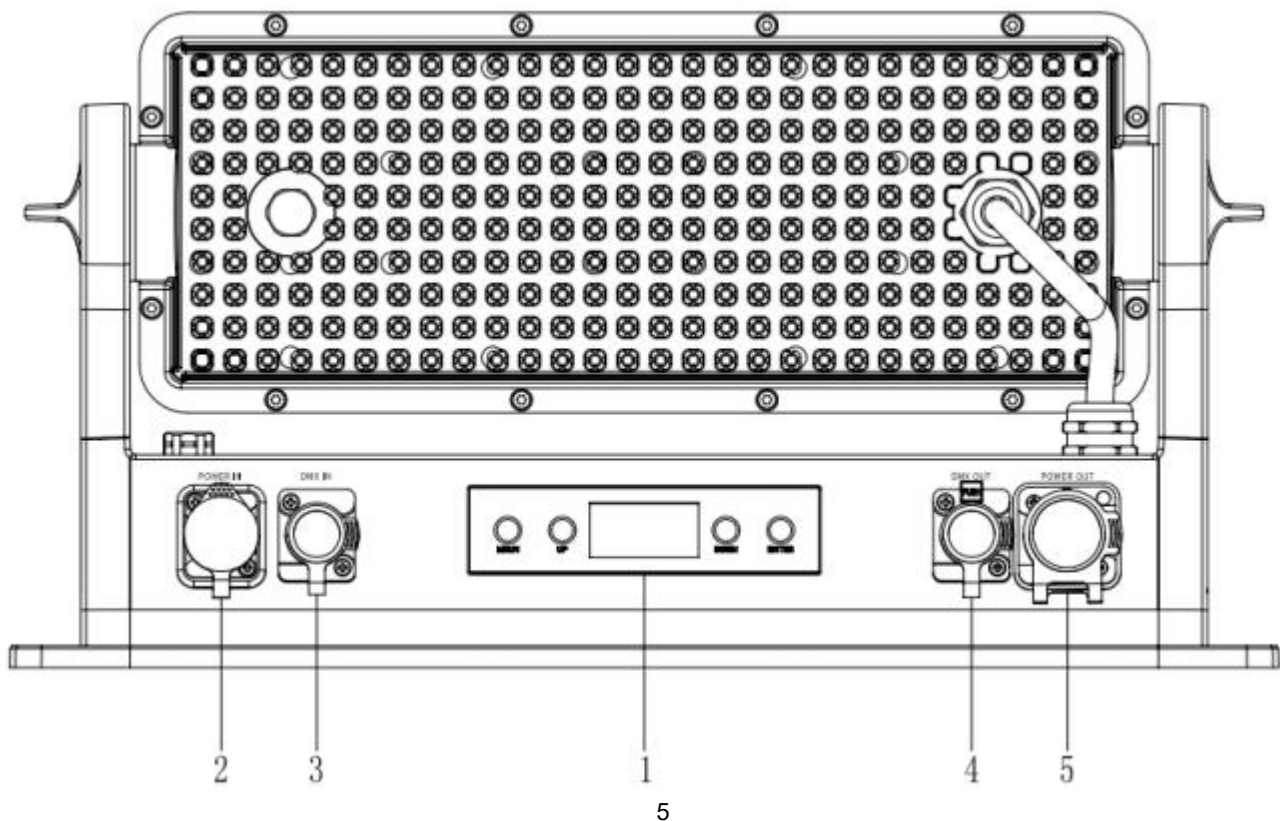
Do not connect too many fixtures or overload through single power cord.

Do not use the damaged power cord of the insulation layer, and do not put the power cord on other wires

Unplug the power cord when the fixture is not in use or cleaning.

Do not vigorously unplug or drag the power cord directly.

Control Panel



1. Panel operation button: MEUN、UP、DOWN、ENTER
2. POWER IN: Waterproof POWER cable Input Voltage: 100-240V 50/60HZ
3. DMX IN: 3-pin DMX waterproof signal cable input
4. DMX OUT: 3-pin DMX waterproof signal cable output
5. Power OUT: Waterproof POWER cable output Voltage: 100-240V 50/60HZ

Panel operation function operation is as follows:

Name	Description	Function
MENU	MENU CHOOSING	MENU Operation
UP	Shift. to the previous	The parameter increase
DOWN	Shift. to the Next	The parameter decrease
ENTER	Save your settings	Confirm the selected settings

Press button **UP** or **DOWN** if you want to browse through the various Setup Options.

Press button **ENTER** to save your settings or enter the next menu.

Press button **UP** or **DOWN** to shift.

Press button **Menu** will return to the upper menu one by one.

Operation Menu

The Pass word of entering Main Menu: 8888

Level 1	Level 2	Description
DMX Address	001-512	Set DMX address
	cancel	
	Enter	
DMX Channel Mode	4 Channel Mode	
	7 Channel Mode	
	8 Channel Mode	
Dimmer Mode	Dimmer Mode 1	
	Dimmer Mode 2	
	Dimmer Mode 3	
Dimmer Curve	Dimmer Curve 1	
	Dimmer Curve 2	
	Dimmer Curve 3	
	Dimmer Curve 4	
LED Frequency	600Hz	
	1200Hz	
	2000Hz	
	4000Hz	
	6000Hz	

	25KHz	
Manual Color	Red	0-255
	Green	0-255
	Blue	0-255
	Amber	0-255
Auto program	Auto Color	
	Auto Fade	
Language(语言)	English	
	Chinese	
Display	Normal	
	Reverse	
Backlight	ON	
	30S	
Fixture test	Red	
	Green	
	Blue	
	White	
Factory Settings	NO	
	YES	
System Info	RDM UID	RDM UID
	Version	Software Version Number
	DMX Chanel	Currently used mode
	Run Time	00:00:00 Total usage time
	User Time	00:00 The time of use
	Temperature	Current Operating Temperature

Remarks:

1. Only one fixture can be set to host in one signal cable, remove DMX control signal when using host function
2. In the synchronous control of multiple fixtures parameters can be transmitted from the master including: DMX mode, display setting, operation mode (user memory data included); All fixtures accepting parameters will automatically be set to slave mode.

DMX CHANNEL LIST

4 Channel

Channel	Function	DMX Value	DMX Channel Value
1	Red	0-255	0-100%
2	Green	0-255	0-100%
3	Blue	0-255	0-100%
4	White	0-255	0-100%

7 Channel

Channel	Function	DMX Value	DMX Channel Value	
1	Dimmer	0-255	0-100%	
2	Strobe	0-255	0-100%	
3	Red	0-255	0-100%	
4	Green	0-255	0-100%	
5	Blue	0-255	0-100%	
6	White	0-255	0-100%	
7	Color Temperature	0-255	0-100%	Default DMX value 1-4/0.4%-1.6%(RGBW controllable)

8 Channel

Channel	Function	DMX Value	DMX Channel Value	
1	Dimmer	0-255	0-100%	
2	Strobe	0-255	0-100%	
3	Red	0-255	0-100%	
4	Green	0-255	0-100%	
5	Blue	0-255	0-100%	
6	White	0-255	0-100%	
7	Color Temperature	0-255	0-100%	Default DMX value 1-4/0.4%-1.6% (RGBW controllable)
8	Color Macro	0-255	0-100%	

Channel priority: dimming> built-in program call > user program call>ARGBW dimming >HSV dimming> Macro

Instruction> Color Temperature

Maintenance

Maintenance

To ensure the reliability of the projector it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic color filters should also be regularly cleaned to maintain an optimum light output.

Do NOT use any type of solvent on dichroic color filters.

Cleaning frequency depends on the environment in which the fixture operates: damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. A soft cloth and typical glass cleaning products should be used in cleaning. It is recommended to clean the external optics at least once every 20 days and clean the internal optics at least once every 30 / 60 days.

Do not use any organic solvent, e.g. alcohol, to clean the reflector mirror, dichroic color filters or housing of the apparatus.

Trouble Shooting

PROBLEM	ACTION
The fixture wont switch on properly	<ul style="list-style-type: none">➤ power cord connection is not normal➤ the switching power supply is damaged or the connection is not normal, professional qualified technician needed to carry out maintenance and repair➤ control board connection is not normal, professional qualified technician needed to carry out maintenance and repair
The fixture switch on , but LED not bright and not controlled	<ul style="list-style-type: none">➤ LED board connection is not normal , professional qualified technician needed to carry out maintenance and repair
Switch on and light normally, but not controlled by controller	<ul style="list-style-type: none">➤ check the DMX starting address code setting is correct or not , Check the XLR signal line is damaged or not
The fixture is dim and the brightness drops sharply	<ul style="list-style-type: none">➤ The fixtures temperature is too high, please take necessary ventilation and heat dissipation measures

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.