

XLED 4019 PR-8124

This product manual contains important information about the safe installation and use of this product. Please read and follow these instructions carefully before installing and using the product and keep this manual in a safe place for future reference.

PR LIGHTING LTD.
<http://www.pr-lighting.com>

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ACCESSORIES

The following items are supplied with the projector and please check:

Name	Quantity	Unit	Remark
G Clamp	2	Pc	
XLR Cable	1	Pc	With plug and socket
Safety cord	1	Pc	
User Manual	0	Pc	QR Code

Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of the manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer

The manual is subject to change without prior notice.

Note: For the products made by Guangzhou PR lighting Ltd, the warranty for the whole product is one year starting from the delivery date but the light source is not within the warranty.

1. SAFETY AND WARNINGS



NOTE

Before a projector's installation, power-on, operation and maintenance, please carefully read the safety information hereinafter!

The following safety signs are used in the user manual.

Warning	User Manual	Electrical shock	Goggles	Protective Gloves	Flames	High Temperature



- When unpacking , check if there is transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use it.
- The manufacture is not responsible for loss caused by the user not following the manual or changing the projector as he/she likes
- Please be noted that the damage caused by changing the projector at will is not warranted.
- Do not hesitate to contact the dealer or the manufacturer if any questions or advice.
- If some LED lamps are damaged or deform because of heat, it should be replaced.



- The projector is for indoor use only, IP20.
- Use only in dry locations. Keep this unit away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids.
- The projector should be kept away from high temperature, fire, electrical surge, vibration and strong light while being operated
- The projector is only intended for installation, operation and maintenance by qualified personnel. And the operation must strictly follow the procedures in the manual
- No repairable parts in the projector and do not open covers for maintenance by yourself.



- Don't look straightly into the light sources especially for epileptics, otherwise eyes will be burned
- Do not connect this device to any type of dimmer pack.
- If the light source, lens and screen protective cover of the a projector have obvious damage, i.e., to the extent that it hurts the performance like cracking or deformation, please stop using it and replace them with the original parts, otherwise its performance will be compromised.
- For the location of a projector, it shouldn't be seen in the distance of less than 4 meters.



- Before operation, please confirm that all covers(housing) are on and screws tightened. It's forbidden to use a projector while its covers(housing)are off .
- Keep the light source clean and do not touch it with bare hands.
- While operating it, wear protective items like goggle and gloves.



- Any electrical connection must be carried out by a qualified person .
- Before installation, please confirm the voltage supplied matches what is required for a projector.
- Each projector must be properly earthed and installed as per related electrical standards.
- Do not use power cord with its insulator damaged and connect the power cord with other cables.
- If a projector is not used or under cleaning,, please hold its plug and unplug it. Do not unplug it forcefully or by pulling the power cable.
- All power cords must conform to related safety and regulations.
- While being operated, if a projector is not waterproof and dust-proof, it should not be under rains or in humidity to avoid being short.

•Do not switch on and off a projector constantly in very short intervals, otherwise its light source's and other electrical parts' life will be shortened .



•There are safety cord holes at the bottom of the base of a projector. In view of safety, please run the safety cord supplied through the safety cord holes for safety support.

•Before any installation, maintenance and cleaning work, please ensure a projector is disconnected from power mains.

The light source in the fixture should be replaced by the manufacturer or its service agents or qualified persons.



•While being in stable working state under normal ambient temperature, the temperature of the surface of the metallic housing of a projector including heat sink will reach 55°C.

•While its LED lamps are stricken for the first time, there will be smoke and strange smell. It's normal and does not mean a projector has some defects.

•While a projector running, do not touch the metallic housing to avoid being burned.



•Do not mount a projector directly on inflammable surface.

•Do not project the beam straightly on combustible items and the minimum distance between it and illuminated items is 10m.

•A projector should be installed with good ventilation and the minimum distance between it and walls is 50cm. At the same time, please ensure the fans and air inlets and outlets are workable.

•Do not let the front lens expose to sunlight or other strong light sources at any angle, otherwise the focused beam inside can result in fire potentially.



• The product meets The General Technical Requirements and Standards for Recycle and Use Of Expired Appliance and Electronic Products.

• When the product meets disposal standards and needs to be disposed, a client needs to dispose and recycle it.

2. INSTRUCTIONS

•CLEANING AND MAINTENANCE

Under normal running, the projector's protective device should be checked periodically, for example, if the power fuse is blown up or not. If it does, replace it with a new fuse with same ratings. Please be noted the new and old ones are of same ratings.

The projector has over-temperature protective device. If the temperature is too high, the protective device will be triggered to shut the projector off automatically. Please check the cooling components periodically including cooling fans, heat sink or other cooling parts. Please check if the fans run normally or fan shield is blocked by dust. Ensure the air inlets/outlets are clear. The cooling fans must be cleaned very 15 days.

The accumulation of oil, smoke and dust on the lens, reflectors and coated filters will compromise the light output. Cleaning a projector is very necessary to ensure a reliable use of it. Internal lens, flat glass, reflector and coated filters need to be cleaned periodically to optimize light output.

For any waterproof fixture, it's forbidden to dismantle it unless it's necessary to replace its internal components and confirmed by professional technicians. For waterproof fixtures, keep them clean if without fans, otherwise please refer to the above procedures for cleaning.

Cleaning frequency is to be decided by operations and its environment. Use soft cloth and normal detergent for glass for cleaning work. It's advised external optical system be cleaned every 20days and internal optical systems every 30/60days. Keep lens clean and do not touch optical parts with bare hands.



- Before any maintenance and cleaning, please ensure the project is off the power
- Only qualified person is allowed to do maintenance

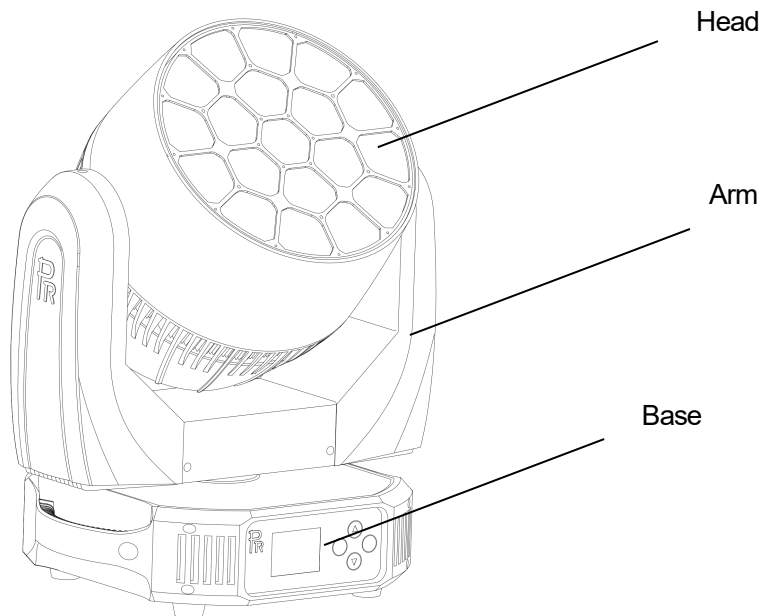


- To avoid internal damage, sun light or other light mustn't penetrate into the projector via front lens whether it runs or not
- Do not use alcohol or other organic solvent to clean the housing to avoid damage.
- Do not use any solvent with chemical elements to clean color filters.

.TROUBLESHOOTING

PROBLEM	ACTION
A projector can't be switched on	<ul style="list-style-type: none"> ➤ Check if the fuse is burned ➤ Check if the power cord is connected well ➤ Check if the switching power supply is bad or not connected well. A professional technician is required for the repair ➤ Check if the control board is connected well. A professional technician is required for the repair
A projector can be switched on , but the LED lamp's brightness can't be controlled	<ul style="list-style-type: none"> ➤ Check if the LED driver board is connected well. A professional technician is required for the repair
A projector can be switched on normally, but not controlled by the DMX controller	<ul style="list-style-type: none"> ➤ Make sure that its start address is right ➤ Replace or repair the XLR signal cable.
The beam is not bright and its brightness decreases sharply	<ul style="list-style-type: none"> ➤ Make sure the fans are working well or fans and their shields are not blocked by dust. ➤ Make sure that the internal optics are clean.
A project image appears to have a halo	<ul style="list-style-type: none"> ➤ Carefully clean the LED lamp, optical lenses and other components.
Heavily Defective Beam	<ul style="list-style-type: none"> ➤ Check if lens are in good condition(not cracked) ➤ Clean dust or grease on the lens.

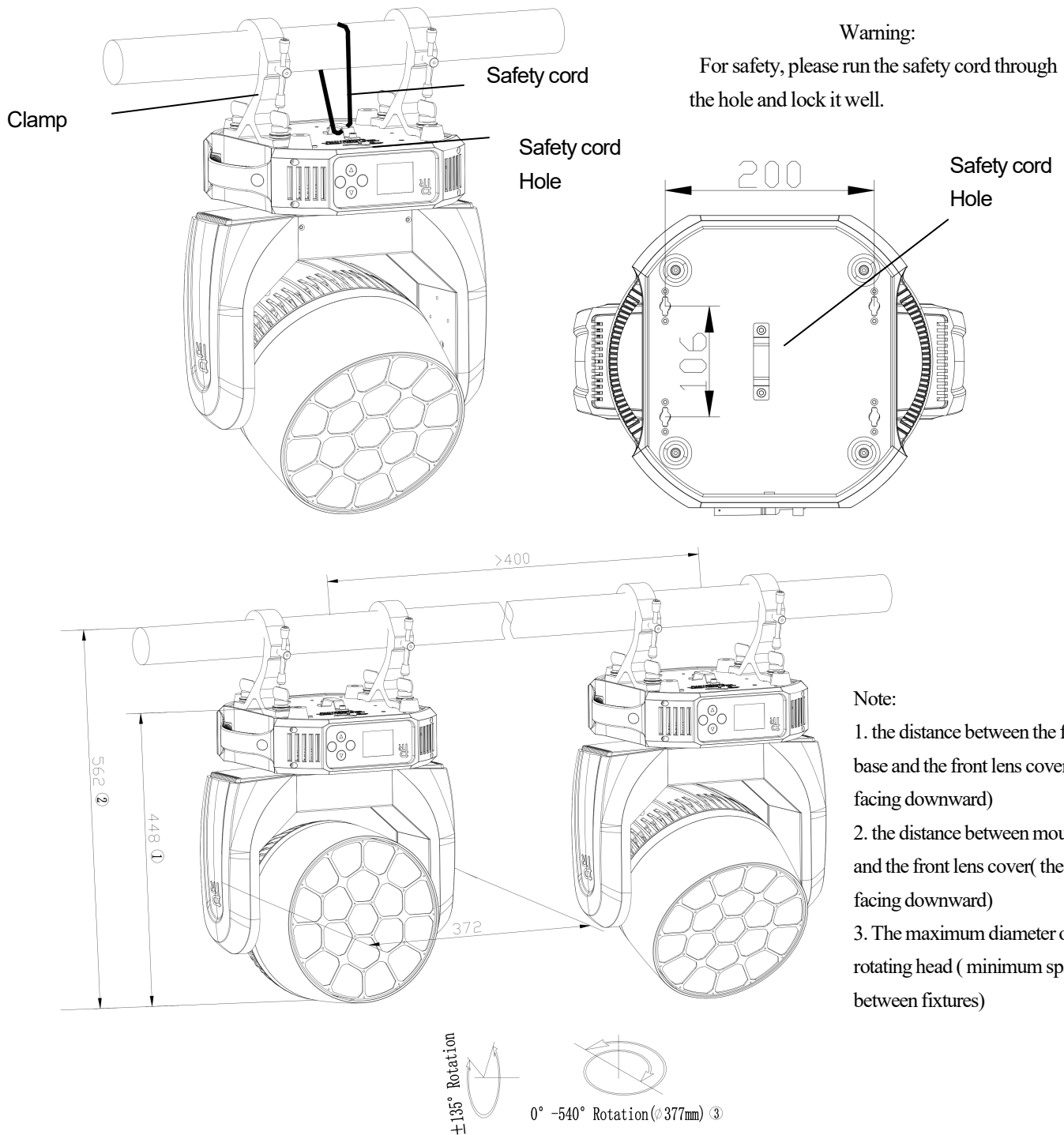
3. APPEARANCE



4. INSTALLATION

•RIGGING

Before moving a projector, Please lock Pan and Tilt. Before its operation, please unlock them. It's forbidden to run a projector with power while it is locked



Take 2 clamps and 1 the safety cord out from the package and mount 2 clamp on the **BOTTOM** of fixture with 4 retainers attached to the clamp. Hang the fixture on the steel truss and fasten the retainers attached to the clamp. Always ensure that the location that you are going to mount the unit is secure and is strong enough to support the weight of the unit (See the **WARNING** as shown above) **To pass SAFETY CORD through the SAFETY HOLE on the back cover of the base of the fixture for safety!** Always ensure that the unit is firmly anchored to avoid vibration and slipping whilst functioning.



WARNING:

- The projector **MUST** be lifted or carried by the **HANDLES** instead of clamps.
- For safety the safety cord should afford 10 times the Projector's weight.

• POWER CONNECTION

Connect the power cord as follows:

L (live) =brown

E (earth) =yellow/green

N (neutral) =blue

Before power connection, please ensure the power supplied must match what the nameplate says. It is recommended that each projector be connected with power separately so that they may be individually switched on and off.

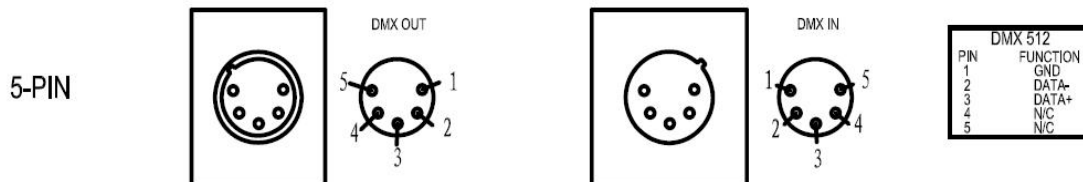
Note: If projectors are connected in series, please connect POWERIN port of the 1st projector with the Power Mains, then connect its POWER OUT with POWER IN of the 2nd projector, and so on till all fixtures are connected. If the voltage supplied is 200V-240V, the maximum projectors connected is 8pcs, if it is 100V-120V, the maximum is 4pcs. The diameter of the cores of the wires for the Power in/out cables must be equal or bigger than 2.5mm².



•The earth wire(yellow/green) must be connected to the ground. And electrical connection must be in accordance with the standards concerned.

•If any questions about the electrical installation, do not continue but consult a qualified electrician.

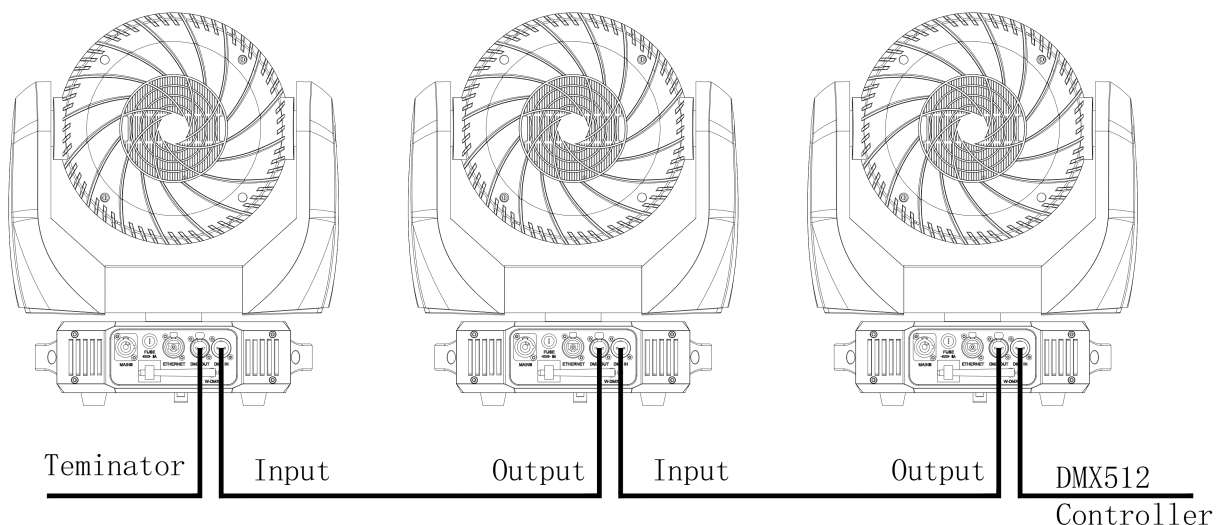
•DMX CONTROL CONNECTION



Connection between controller and projector and between one projector and another must be made with a twin-screened cable, with each wire having at least a 0.5mm in diameter. Connection to and from the projector is via cannon 5 pin (which are included with the projector) or 5 pin XLR plugs and sockets. The XLR's are connected as shown in the figure above.

Note: care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. XLR plugs and sockets mustn't be connected in any way other than mentioned in the above figure. The projector accepts digital control signals in protocol DMX512 (1990).

Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.

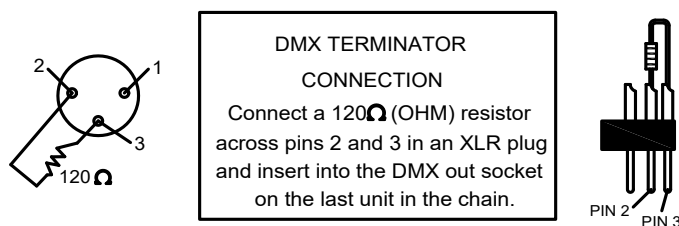


•DMX TERMINATOR

In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents

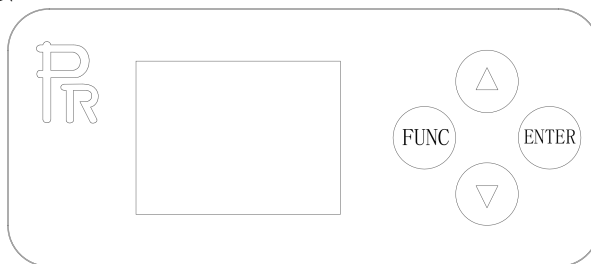
electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



5. SETUP AND CONFIGURATION

•FRONT PANEL OPERATION



Fixture's address and function code configuration can be set conveniently via Touch Key and LCD display. Press button **ENTER** more than 3 seconds to unlock panel. LED display shows the fixture's function menu. Each Option of the main menu has its own sub-menu. Each menu stands for specified function of the fixture, please see the details in the following:

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

Press button **ENTER** to save your settings or enter the sub-menus.

Press button **UP** or **DOWN** to change the parameters (increase or decrease the numbers)

Press button **FUNC**, it will return to the upper menu one by one. If the button not pressed, the system will go back to display status automatically.

•DMX START ADDRESS

If many fixtures are controlled by the controller, each fixture should be set with a start address to receive signals sent by the controller and respond to it. The fixture have 3 DMX modes. There are 10-channel short mode, 18-channle standard mode and 20-channel extended mode, For example standard mode has 31 channels, so set the No. 1 Fixture's address 001, No. 2 Fixture's address 032, No. 3 Fixture's address 063 and so on.

Press button **ENTER** more than 3 seconds to unlock panel and **DMX Address** is displayed meaning it has entered into menus .

Press **ENTER** and the DMX address will be displayed while flashing;

Press button **UP** or **DOWN**, you can set the address;

Press button **ENTER** to confirm and at the same time it stops flashing and enter into upper menu meaning the address has been saved; when powered on next time, it will show the latest number you saved.

Press button **FUNC**, it will return to the upper menu one by one.

•DMX WIRELESS CONTROL

The projector has wireless control function with wireless receiver module and antenna for remote control.

The setup of it is below:

1. Enter into the projector's menu. Select the menu "Config Settigns" via the bottoms of **UP** and **DOWN**
2. Select **DMX control Mode----** **Wireless First** (Note: do not select **XLR ONLY**), then wireless indication in the front panel will be on, meaning wireless control function is activated.

Only after the projector is linked with a transmitter, can it receive wireless signal sent by the transmitter. If unlinking it, Press "Enter" for the menu of Unlink Wireless under the upper level menu of Config Settigns .

•STAND-ALONE MODE

Operate the projector without connecting with a controller, enable the master mode through the operation panel, the projector will run in Stand-Alone mode automatically.

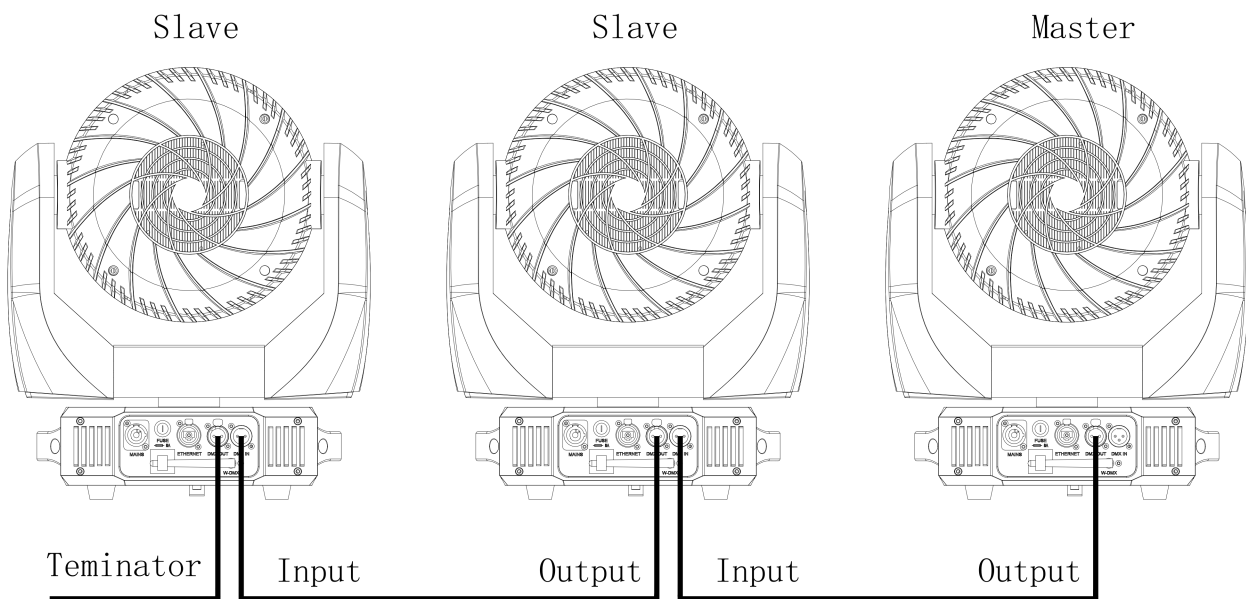
DMX address can be set at any number within 512.

•MASTER/SLAVE MODE

Many projectors can run synchronously in the Master/Slave mode by linking them with each other. First, connect the first fixture's DMX output to the second fixture's DMX input using XLR-XLR control cable and then connect the second fixture's DMX output to the third fixture's DMX input, and so on until all projector are connected in this way. Eventually connect the last fixture's DMX output to a DMX terminator. Set 1st projector as the master and others are Slaves.

Start Addresses of all Slaves are 001; Operation mode of the Master can be set any mode for a Master' and Slaves' operation mode can be set accordingly.

After Powered on, the group will run in Master/Slave Mode



● Color temperatures and color macros

There are 7 color temperature macros and 89 color macros included in LEE standard color chart. Color temperature macros:

2700K,3000K,3500K,4000K,4500K,5000K,5700K. Under macro channel, any desired color temperature or color macro can be selected.

● Dimmer curves and frequencies

There are 4 gamma curves: gamma curve 2.0,gamma curve 2.2,gamma curve 2.4,gamma curve 2.6,line.

There are 8 LED refresh rates : 1200Hz,2400Hz,4800Hz,10000Hz,12000Hz,15000Hz,20000Hz,25000Hz

There are fast, medium and slow dimmer speeds

Set them via control panel:

1. Push the OK key for more than 3s to unlock the control panel. After it unlocked, push ► key to enter the main menus. Select Option Settings
2. After selecting Dimmer Settings, select any of Gamma Curve, LED Refresh Rate and Dimmer Speed for any settings

● Fan modes

Standard and theatre modes. Theatre mode is quiet mode.

Set it via control panel:

1. Push the OK key for more than 3s to unlock the control panel. After it unlocked, push ► key to enter the main menus. Select Option Settings
2. After selecting Fan Setting, select either of Standard and Theatre modes.

6. OPERATION MENU

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL
Address	DMX Address	1-489(Short mode) 1-482 (Standard mode) 1-472(Extended mode)		
	IP Address	Default IP Address	2.X.X.X/10.X.X.X	
		Custom IP Address	X.X.X.X	
	Sub Net Mask	X.X.X.X		
	ArtNet Universe	0-255		
	sACN Universe	1-63999		
Reset	Total Reset	Really Reset?	Confirm/Cancel	
	Pan&Tilt Reset	Really Reset?	Confirm/Cancel	
	Zoom Reset	Really Reset?	Confirm/Cancel	
Config Settings	DMX Channel Mode	Short Mode 24CH		
		Standard Mode 31CH		
		Extended Mode 41CH		
		View Selected Mode	Strobe	
	Signal Select	XLR Only		
		XLR First		
		Wireless Only		
		Wireless First		
		Wireless In/XLR Out		
		ArtNet Only		
		ArtNet In/XLR Out		
		sACN Only		
		sACN In/XLR Out		
	Loss of DMX	Off		
		On		
		Hold Last Value		
		Custom		
		User Memory 1		
	Display Config	Display Mode	Off After Delay	
			On Always	
		Display Invert	Invert OFF	
			Invert ON	
			Invert Auto	
		Language Setting	English	
			Chinese	
		Touch Calibration		
	Temperature Unit	Celsius Degree		
		Fahrenheit Degree		
	Un-Link Wireless	Really Un-Link?	Confirm/Cancel	

	Factory Defaults	Restore Defaults?	Confirm/Cancel	
Option Settings	Pan/Tilt Settings	Pan DMX Invert	OFF/ON	
		Tilt DMX Invert	OFF/ON	
		Pan Tilt Swap	OFF/ON	
		XY Feedback	OFF/ON	
		Pan/Tilt Mode	speed/Time	
	Invert Settings	Zoom Invert	OFF/ON	
	Dimmer Settings	Gamma Curve	Gamma 2.0/2.2/2.4/2.6/Line	
		LED Refresh Rate	1200/2400/4800/10000/12000/15000/20000/25000Hz	
		Dimmer Speed	Fast/Medium/Slow Speed	
		Color Calibration	OFF/ON	
		Color Optimize	OFF/ON	
	Fan Settings	Standard/Theatre		
Information	View DMX Values			
	Lamp Hours	Lamp Hours=xxxh Reset Lamp Hours		
	Total Hours	Total Hours=xxxh		
	Temperature	Display Board XX°C/F		
		Pan Tilt Board XX°C/F		
		LED XX°C/F		
	Software Version	Display Board	System= XXX Boot=XXX	
		Pan Board	System= XXX Boot=XXX	
		LED Board	System= XXX Boot=XXX	
	Electronic SN	Electronic SN=XXX		
	RDM Device Label	PR-8124 ANSI E1.20 RDM		
	Fan Status	LED Fan F1		
		Power Fan F2		
		Basic Fan F3		
Service	Manual Effect Control	Strobe XXX		
		Dimmer XXX		
		...		
	Factory Test		...	
Operation Mode	DMX Mode	Change Operation Mode?	Confirm/Cancel	
	Master Mode	Preset Memory	Change Operation Mode?	Confirm/Cancel
		User Memory 1	Change Operation Mode?	
		User Memory 2	Change Operation Mode?	
	Stand-Alone Mode	Preset Memory	Change Operation Mode?	
		User Memory 1	Change Operation Mode?	
		User Memory 2	Change Operation Mode?	
	Static Scene	Change Operation Mode?		

User Memories	Edit User Memory	Edit User Memory 1	Scene XX (1~200 Scenes)	Strobe XXX
				Dimmer XXX
				...
		Edit User Memory 2		Delay Time XXX
				Delay Unit
				Link To Step XXX
		Edit Static Scene	Strobe XXX	
			Dimmer XXX	
			...	
	Init User Memory	Reset User Memory 1	Reset User Memory?	Input Password123
		Reset User Memory 2	Reset User Memory?	Input Password123
		Reset Static Scene	Reset Static Scene?	Input Password123

7. DMX PROTOCOL

Short mode	Standard mode	Extended mode	Function	DMX Value	Description
1	1	1	Strobe	000-007	No strobe
				008-127	Strobe from slow to fast
				128-135	No strobe
				136-177	Fast close slow open
				178-185	No strobe
				186-227	Fast open slow close
				228-255	No strobe
2	2	2	Dimmer	000-255	Linear dimmer(0-100%)
		3	Dimmer Fine	000-255	Linear dimmer(0-100%) in 16 bit
	3	4	CTO	000-001	No
				002-255	Linear CTO (1800 – 10000K)
	4	5	Macro (Calibration mode closed)	000-007	No
				008-009	Color Temperature 2700K
				010-011	Color Temperature 3000K
				012-013	Color Temperature 3500K
				014-015	Color Temperature 4000K
				016-017	Color Temperature 4500K
				018-019	Color Temperature 5000K
				020-021	Color Temperature 5700K
				022-023	Color Macro1
				024-025	Color Macro2
				026-027	Color Macro3
				028-029	Color Macro4
				030-031	Color Macro5
				032-033	Color Macro6
				034-035	Color Macro7
				036-037	Color Macro8

				038-039	Color Macro9
				040-041	Color Macro10
				042-043	Color Macro11
				044-045	Color Macro12
				046-047	Color Macro13
				048-409	Color Macro14
				050-051	Color Macro15
				052-053	Color Macro16
				054-055	Color Macro17
				056-057	Color Macro18
				058-059	Color Macro19
				060-061	Color Macro20
				062-063	Color Macro21
				064-065	Color Macro22
				066-067	Color Macro23
				068-069	LEE 004 (Medium Bastard Amber)
				070-071	LEE 010 (Medium Yellow)
				072-073	LEE 019 (Fire)
				074-075	LEE 026 (Bright Red)
				076-077	LEE 058 (Lavender)
				078-079	LEE 068 (Sky Blue)
				080-081	LEE 071 (Tokyo Blue)
				082-083	LEE 079 (Just Blue)
				084-085	LEE 088 (Lime Green)
				086-087	LEE 090 (Dark Yellow Green)
				088-089	LEE 100 (Spring Yellow)
				090-091	LEE 101 (Yellow)
				092-093	LEE 102 (Light Amber)
				094-095	LEE 103 (Straw)
				096-097	Lee 104 (Deep Amber)
				098-099	LEE 105 (Orange)
				100-101	LEE 106 (Primary Red)
				102-103	LEE 111 (Dark Pink)
				104-105	LEE 115 (Peacock Blue)
				106-107	LEE 116 (Medium Blue-Green)
				108-109	LEE 117 (Steel Blue)
				110-111	LEE 118 (Light Blue)
				112-113	LEE 119(Deep Blue)
				114-115	LEE 120 (Dark Blue)
				116-117	LEE 121 (LEE Green)
				118-119	LEE 128 (Bright Pink)
				120-121	LEE 131 (Marine Blue)
				122-123	LEE 132 (Medium Blue)
				124-125	LEE 134 (Golden Amber)

				126-127	LEE 135 (Deep Golden Amber)
				128-129	LEE 136 (Pale Lavender)
				130-131	LEE 137 (Special Lavender)
				132-133	LEE 138 (Pale Green)
				134-135	LEE 139 (Primary Green)
				136-137	LEE 141 (Bright Blue)
				138-139	LEE 147 (Apricot)
				140-141	LEE 148 (Bright Rose)
				142-143	LEE 152 (Pale Gold)
				144-145	LEE 154 (Pale Rose)
				146-147	LEE 157 (Pink)
				148-149	LEE 158 (Deep Orange)
				150-151	LEE 162 (Bastard Amber)
				152-153	LEE 164 (Flame Red)
				154-155	LEE 165 (Daylight Blue)
				156-157	LEE 169 (Lilac Tint)
				158-159	LEE 170 (Deep Lavender)
				160-161	LEE 172 (Lagoon Blue)
				162-163	LEE 179 (Chrome Orange)
				164-165	LEE 180 (Dark Lavender)
				166-167	LEE 181 (Congo Blue)
				168-169	LEE 197 (Alice Blue)
				170-171	LEE 201 (Full C.T. Blue)
				172-173	LEE 202 (Half C.T. Blue)
				174-175	LEE 203 (Quarter C.T. Blue)
				176-177	LEE 204 (Full C.T. Orange)
				178-179	LEE 205 (Half C.T. Orange)
				180-181	LEE 206 (Quarter C.T. Orange)
				182-183	LEE 247 (LEE Minus Green)
				184-185	LEE 248 (Half Minus Green)
				186-187	LEE 281 (Three Quarter C.T. Blue)
				188-189	LEE 285 (Three Quarter C.T. Orange)
				190-191	LEE 352 (Glacier Blue)
				192-193	LEE 353 (Lighter Blue)
				194-195	LEE 715 (Cabana Blue)
				196-197	LEE 778 (Millennium Gold)
				198-199	LEE 793 (Vanity Fair)
				200-255	Color Mixing Fade in Macros Note: under calibration mode, while DMX value between 22 and 255, it's color fade(red→green→blue→red)
	5	6	Macro speed	000-255	Color mixing fade in macros from slow to fast
3	6	7	Red1	000-255	Linear adjustment(0-100%)
4	7	8	Green1	000-255	Linear adjustment(0-100%)











5	8	9	Blue1	000-255	Linear adjustment(0-100%)
6	9	10	White1	000-255	Linear adjustment(0-100%)
3	6	11	Red2	000-255	Linear adjustment(0-100%)
4	7	12	Green2	000-255	Linear adjustment(0-100%)
5	8	13	Blue2	000-255	Linear adjustment(0-100%)
6	9	14	White2	000-255	Linear adjustment(0-100%)
3	6	15	Red3	000-255	Linear adjustment(0-100%)
4	7	16	Green3	000-255	Linear adjustment(0-100%)
5	8	17	Blue3	000-255	Linear adjustment(0-100%)
6	9	18	White3	000-255	Linear adjustment(0-100%)
	10	19	Hue	000-255	
	11	20	Saturation	000-255	
7	12	21	Zoom	000-255	Beam angle from small to big
		22	Zoom Fine	000-255	Zoom in 16 bit
8	13	23	Pan	000-255	0-540degrees
	14	24	Pan Fine	000-255	In 16 bit
9	15	25	Tilt	000-255	0-270 degrees
	16	26	Tilt Fine	000-255	In 16 bit
10	17	27	PAN/Tilt Speed	000-255	Pan and Tilt speed from fast to slow
11	18	28	Macros	000-008	No effects
				009-255	N types of effects If the effect's front and background colors are not on, the color is the default. If the effect's front and background colors are on, the color is user-defined. (The DMX channels for front and background colors are hereinafter) While the effect is on, the color dimmer for areas(1-4) is invalid, but the total dimmer is still effective.
12	19	29	Fcolor Dim	000-255	Total front color dimmer (The channel should be on for user memory)
13	20	30	Bcolor Dim	000-255	Total Background colors Dimmer (The channel should be on for user memory)
14	21	31	Macros Speed	000-255	From fast to slow
15	22	32	Macros Fade	000-255	No fade to lengthened fade
16	23	33	Fcolor R	000-255	Front red color dimmer
17	24	34	Fcolor G	000-255	Front green color dimmer
18	25	35	Fcolor B	000-255	Front blue color dimmer
19	26	36	Fcolor W	000-255	Front white color dimmer
20	27	37	Bcolor R	000-255	Background red color dimmer
21	28	38	Bcolor G	000-255	Background green color dimmer
22	29	39	Bcolor B	000-255	Background blue color dimmer
23	30	40	Bcolor W	000-255	Background white color dimmer
24	31	41	Function	0-19	Reserved

				To activate the following functions, stay at the DMX value for more than 5s
				20-24 LCD display on
				25-29 LCD Display Off
				30-46 Reserved
				47-48 Fan Standard mode
				49-50 Fan Theatre mode
				51-52 Fast dimmer speed
				53-54 Medium dimmer speed
				55-56 Slow dimmer speed
				57-58 Gamma curve 2.0
				59-60 Gamma curve 2.2
				61-62 Gamma curve 2.4
				63-64 Gamma curve 2.6
				65-66 Linear curve
				67-68 LED refresh rate 1200Hz
				69-70 LED refresh rate 2400Hz
				71-72 LED refresh rate 4800Hz
				73-74 LED refresh rate 10000Hz
				75-76 LED refresh rate 12000Hz
				77-78 LED refresh rate 15000Hz
				79-80 LED refresh rate 20000Hz
				81-82 LED refresh rate 25000Hz
				83-89 Reserved
				90-94 Pan and Tilt Speed mode
				95-99 Pan and Tilt time mode
				100-139 Reserved
				140-149 Pan and tilt reset
				150-179 Reserved
				180-189 Zoom reset
				190-199 Reserved
				200-209 Total reset
				210-239 Reserved
				240-242 Color calibration off
				243-245 Color calibration on
				246-255 Reserved

Remarks:

Priority sequences: Animation effect>color temperature>hue>color macro>color effect> dimmer of single color of RGBW

8. SIGNS OF THE TOUCH SCREEN

	Config Settings		Option Settings
	Chinese/English		Information
	Error Messages		Service
	Address		Operation Mode
	Reset		User Memories

9. TECHNICAL DATA

ELECTRIC PARAMETERS

Rate voltage :100V~240V AC, 50/60Hz

Rate power :900W @ 220V AC

Current at maximum : 4.0A @ 220V AC

Power factor : PF>0.9

THE SPECIFICATIONS OF THE LIGHT SOURCE

Brand: 40W, RGBW IN ONE

Qty: 19pcs

Ra : Optional Ra \geq 90

Rated life: 50000hrs

HEAD MOVEMENT

Pan: 540° (16 bit control)

Tilt: 240° (16 bit control)

Pan and Tilt invertible and swappable with auto-positioning function

COLORS

RGBW linear color mixing with built-in macros

Color Temperature macros: optional 2700K、3000K、3500K、4000K、4500K、5000K、5700K

Color Macros: 89 color options included in standard color chart

DIMMER

Electronic dimmer, 0-100% linear (16Bit control)

3 dimmer speeds

5 dimmer curves

Dimmer frequency 1.2K~25K adjustable for high speed 4K video cameras

COLOR TEMPERATURE

Color Temperature 1800K-10000K , linear control

STROBE

Electronic strobe, 0.3-25 F.P.S. , with built-in pulse strobe

LENS ANGLE

Beam Angle(1/2 peak) $\theta_{1/2}$: 4°~40°

Field Angle(1/10 Peak) $\theta_{1/10}$: 7°~60°

FAN MODE

Standard mode and theater modes. Theater mode is quiet mode

CONTROL

International Standard DMX512 signal, 5 pin DMX512 interfaces

RDM protocol

24 channels in short mode, 31 channels in standard mode, and 41 channels in extended mode

Master/slave synchronized mode

Stand-alone mode, Preset mode, Single Scene mode

DMX 512 Wireless control

ArtNet and sACN(optional)

OTHER FUNCTIONS

Color touch display, English/Chinese menus, Display auto-lock while standby to avoid unintended touch

Pan and Tilt speeds adjustable;

Pan and Tilt invertible and swappable;

Over temperature protection

Fixture time and DMX 512 channel value displayed

Software versions displayed, display invertible

Sensor diagnostic system;

Intelligent fan cooling system;

Input signal insulated ;

Firmware upgrade via DMX cable ;

LED ring control function.

Smart color management system (optional)

HOUSING

High temperature ABS, IP20

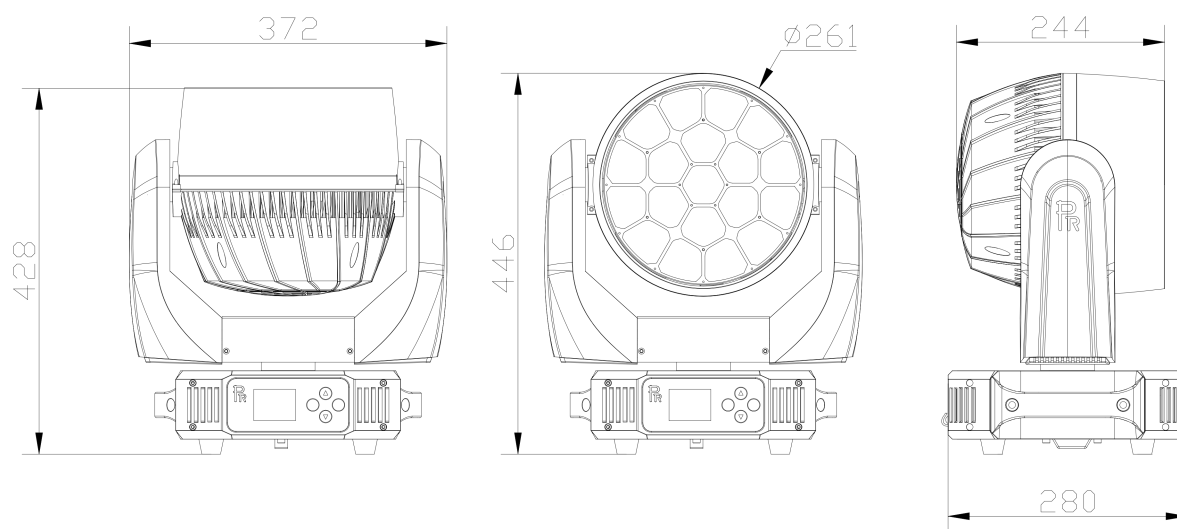
WORKING TEMPERATURE

Ambient temperature 45°C at maximum

WEIGHT

13.2 Kg

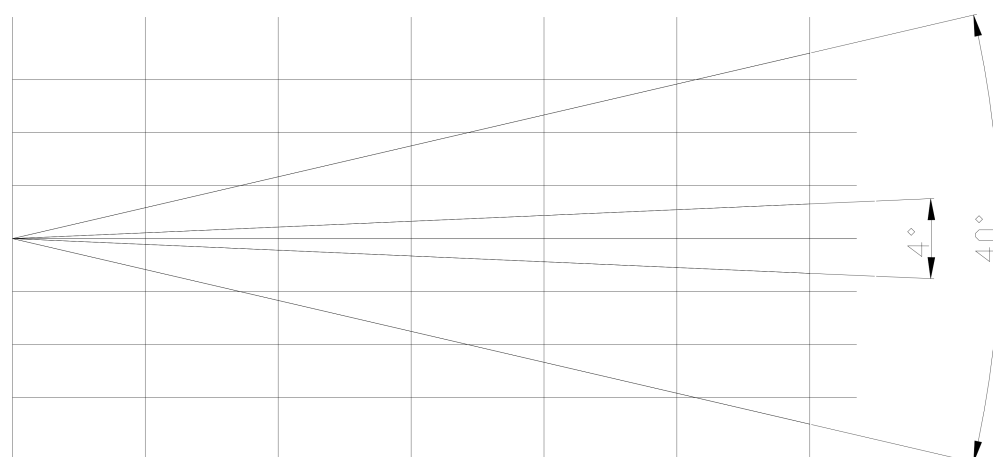
SIZES:



LIGHT OUTPUT

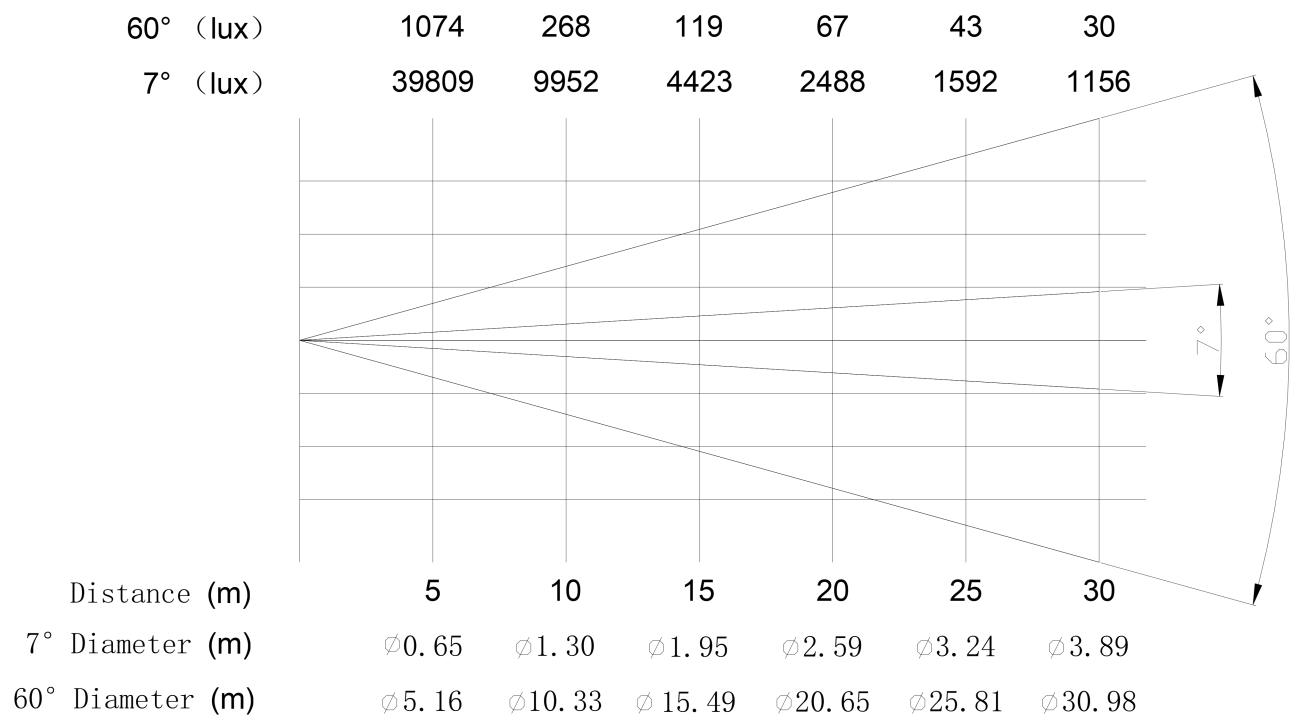
Beam angle

40° lux	1098	274	122	69	44	30
4° lux	38017	9504	4224	2376	1521	1056

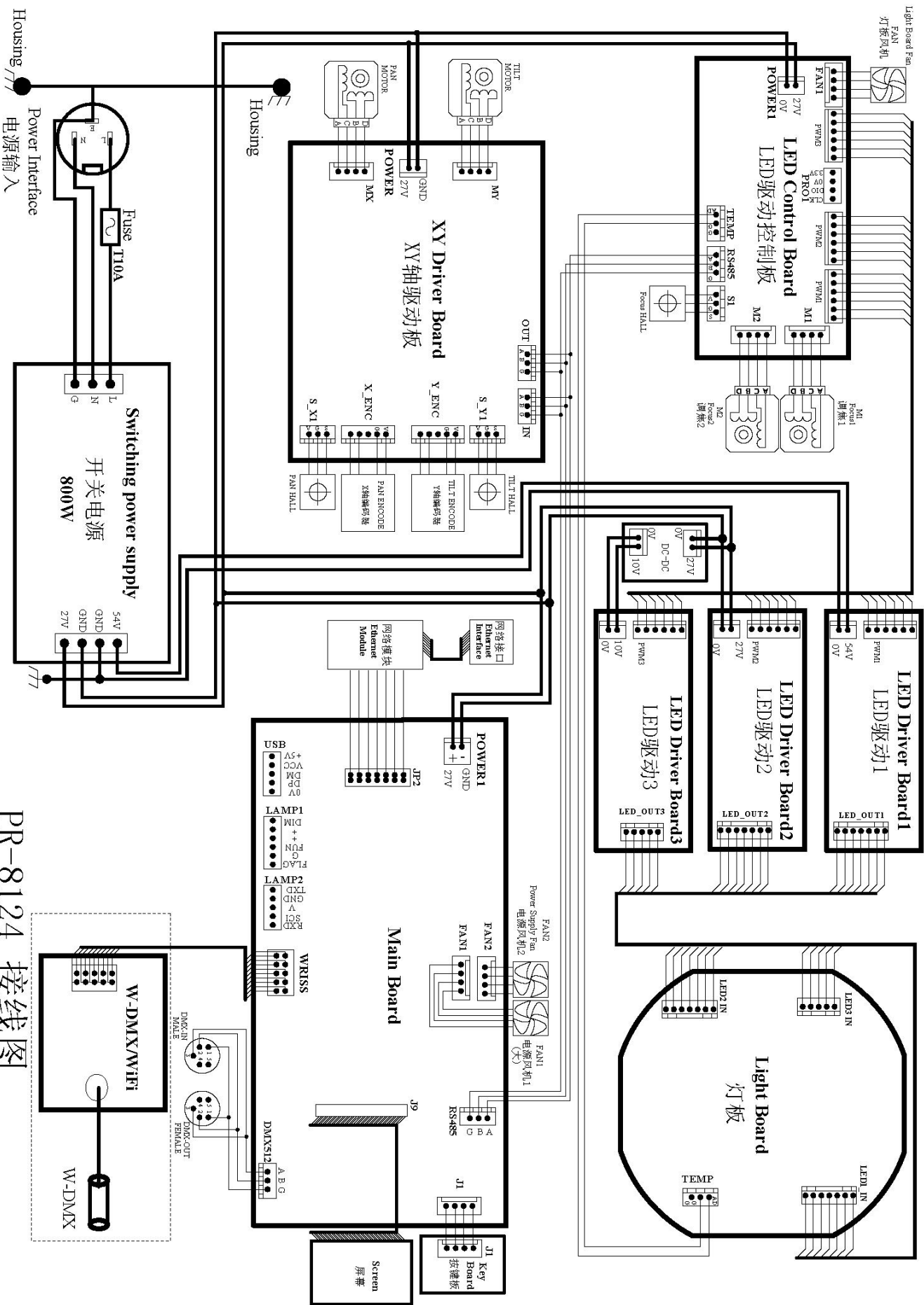


Distance (m)	5	10	15	20	25	30
4° Diameter (m)	Ø 0.4	Ø 0.79	Ø 1.19	Ø 1.58	Ø 1.98	Ø 2.37
40° Diameter (m)	Ø 3.59	Ø 7.18	Ø 10.76	Ø 14.35	Ø 17.94	Ø 21.53

Field angle



10. CIRCUIT DIAGRAM



PR-8124 接线图

11. COMPONENT ORDER CODES

NAME	PART NO.	QUANTITY	REMARK
PAN AND TILT MOTORS	030040174A	2	
ZOOM MOTOR	030040309A	2	
POWER SUPPLY FAN	030060122	1	
BASE FAN	030060118	1	
HEAD FAN	030060130	1	
SWITCHING POWER SUPPLY	192010240	1	

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Old Version:20241119
New Version:20250729