

PR-6000 (Wash 1400W)

PR-2925

The user manual contains important information about the safe installation and use of a projector. Please read and follow these instructions carefully and keep the manual in a safe place for future reference.

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

INDEX

1. SAFETY AND WARNINGS.....	3
2. INSTRUCTIONS.....	4
3. APPEARANCE.....	5
...	
4. INSTALLATION.....	5
5. SETUP AND CONFIGURATION.....	8
6. OPERATION MENU.....	10
7. DMX PROTOCOL.....	12
8. SIGNS ON THE TOUCH SCREEN.....	18
9. ERROR MESSAGE.....	18
10. TECHNICAL DATA.....	19
11. CIRCUIT.....	23
DIAGRAM.....	
12. COMPONENT ORDER CODES.....	24
APPENDIX.....	25
...	

ACCESSORIES

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

Name	Quantity	Unit	Remark
Clamp	2	Pc	
XLR Connector	1	Set	Male and female
Safety cord	2	Pc	
User manual	1	Pc	

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.

Any future technical change in the user manual won't be with any 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 a lamp is damaged or deforms 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 a projector to any type of dimmer pack.
- If the lamp, 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 installation location of a projector, it shouldn't be seen in the distance of less than 4 meters for a long time.



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



- Any electrical connection must be carried out by a qualified person .
- Before installation, please confirm the voltage supplied matches what is required for the 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 the projector is not used or under cleaning,, please hold the 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, the projector should not be under rains or in humidity.
 - Do not switch on and off the projector constantly in very short intervals, otherwise the 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 the projector is disconnected from power mains.



- After stable operation under normal situation , its temperature is 170°C.
- While the lamp is stricken for the first time, there will be smoke and strange smell. It's normal and does not mean the projector has some defects.
- While it running, don't touch the metal housing to avoid being burned!



- Do not mount the projector directly on inflammable surface.
- Do not project the beam straightly on combustible items and the minimum distance between the projector and illuminated items is 5m
- A projector should be installed with good ventilation and the minimum distance between the projector 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 under sunlight or other strong light sources at any angle, otherwise the danger of fire can be caused by the focused beam by the lens inside a projector.

2. INSTRUCTIONS

•CLEANING AND MAINTENANCE

If a projector can't start, Please check if the fuse is blown up. If it does, replace it with a new fuse with same ratings. And the projector has over-temperature protective device. If the temperature is too high, the protective device will be triggered to shut the projector off. When it happens, please check if the fans run normally or fan shield is blocked by dust. After the issue is solved, restart the projector.

The accumulation of oil, smoke and dust on the lens will compromise the light output. Cleaning a projector is very necessary to ensure a reliable use of it. Cooling fans need to be cleaned every 15days. Internal lens, reflector and hot mirror need to be cleaned periodically to optimize light output.

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
- During maintenance and before maintenance, the projector must be off power.



- 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 or hot mirror.
- Hot mirror should be cleaned every 3 days and coated with

•LUBRICATION

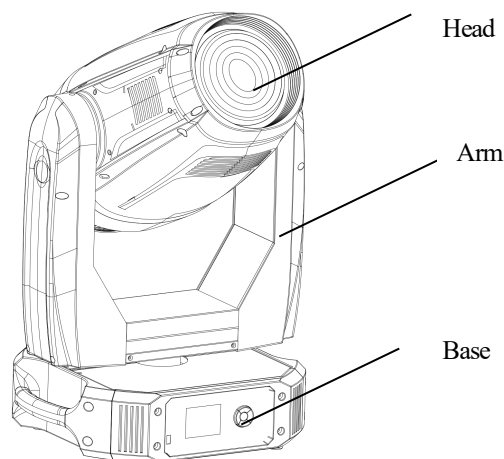
To ensure smooth movement of gobos and zoom and focus lens, it's advised rotators' bearings and 2 sliding bars for zoom and focus

lens be lubricated every 2 months. High quality and high temperature lubricant/grease is advised..

●TROUBLESHOOTING

PROBLEM	ACTION
The projector doesn't switch on	<ul style="list-style-type: none">➤ Check the fuse on the power socket.➤ Check the lamp.
The lamp is on but the projector doesn't respond to the controller	<ul style="list-style-type: none">➤ Make sure that the fixture's start address is right➤ Replace or repair the XLR signal cable.
The projector functions intermittently	<ul style="list-style-type: none">➤ Make sure the fan is working well or fans and their shields are not blocked
Beam appears dim, Low in brightness	<ul style="list-style-type: none">➤ Make sure the lamp is within its lifespan➤ Remove dust or grease from the lenses.
The project image appears to have a halo	<ul style="list-style-type: none">➤ Carefully clean the 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.

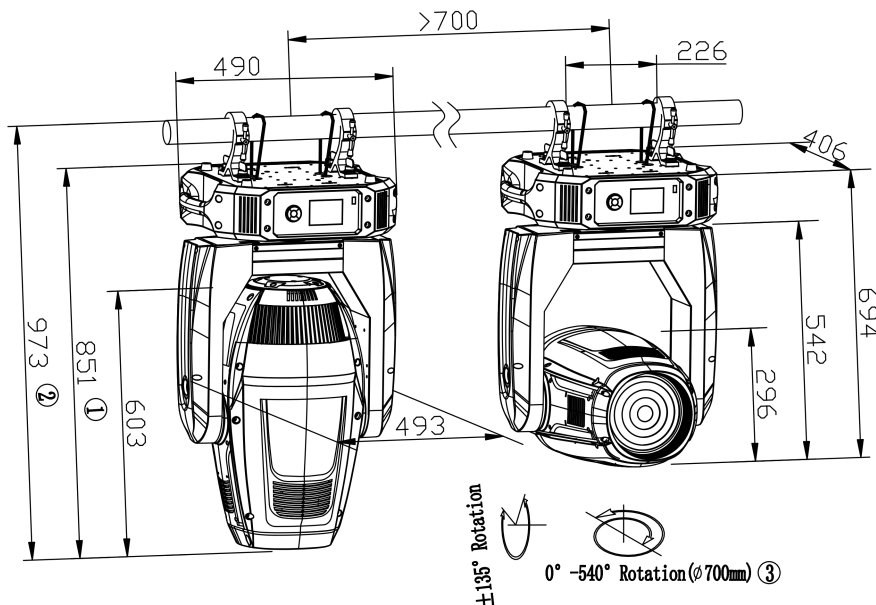
3.APPEARANCE



4.INSTALLATION

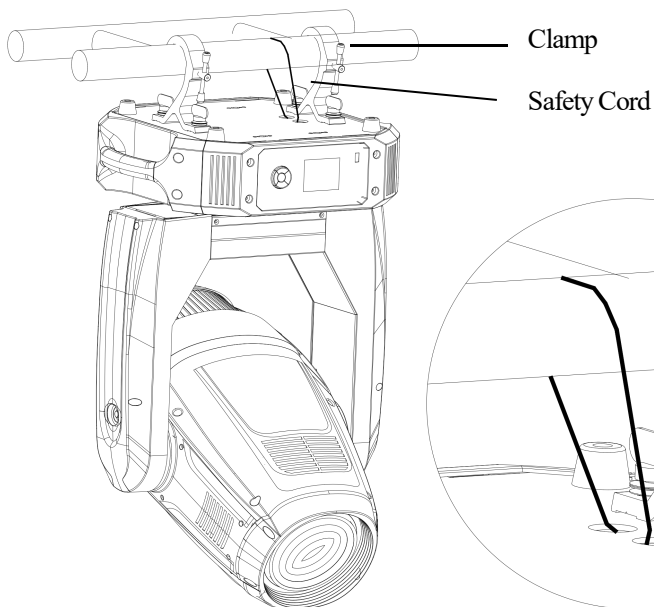
.RIGGING

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



Note:

1. the distance between the foot of the base and the front lens cover (the head facing downward)
2. the distance between mounting truss and the front lens cover (the head facing downward)
3. The maximum diameter of the rotating head (minimum spacing between fixtures)



Warning!

Please run the safety cord through 4 safety cord holes for safety

Take 2 clamps and the safety cord out from the package and mount 2 clamps on the underside of fixture with 2 retainers attached to each clamp. Hang the fixture on the structure and fasten the screws attached to each clamp. (See the **WARNING** on the underside of the base as shown above) **To pass the SAFETY CORD through the HOLES for safety!** Always ensure that the projector is firmly anchored to avoid vibration and slipping whilst functioning. Always ensure that the structure that you are going to mount the projector to is secure and strong enough to support the weight of the unit.



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:

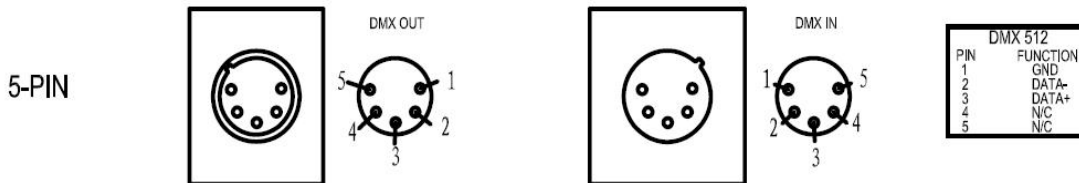
- L (live) = brown
- E (earth) = yellow/green
- N (neutral) = blue

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.



.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.

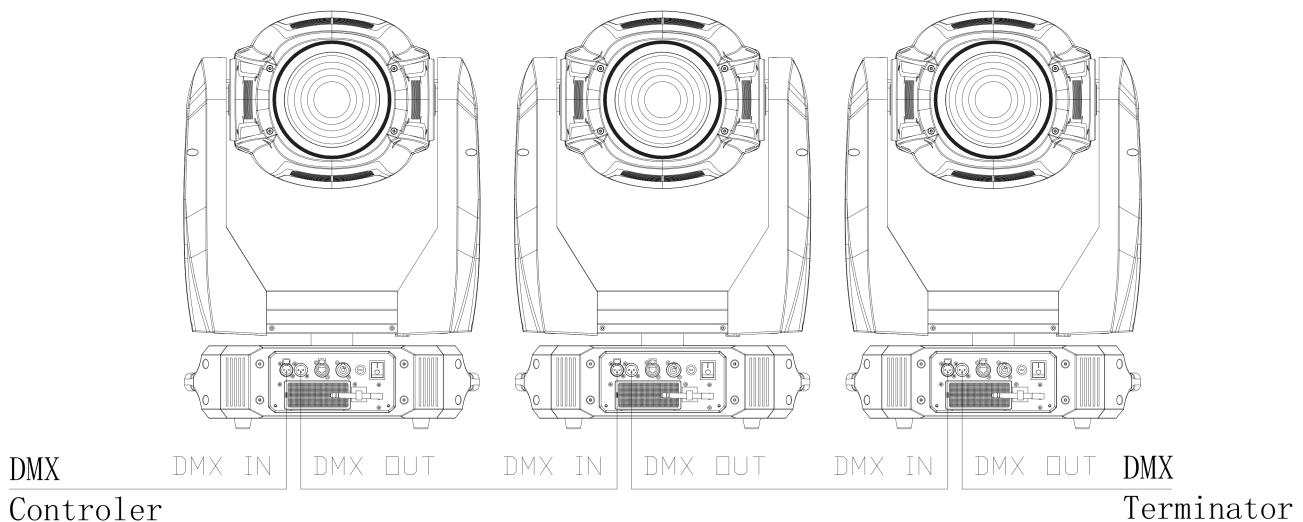
•DMX CONTROL CONNECTION:



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 Fixture accepts digital control signals in protocol DMX512 (1990).

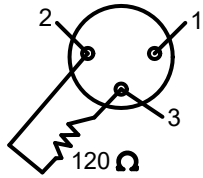
Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.



•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.

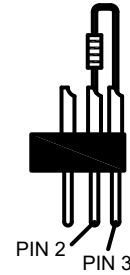
The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



DMX TERMINATOR

CONNECTION

Connect a 120Ω(OHM) resistor across pins 2 and 3 in an XLR plug and insert into the DMX out socket on the last unit in the chain.



.ALIGNMENT/INSTALLATION/REPLACEMENT OF A LAMP

Before installation/replacement/alignment of a lamp, disconnect the unit from the power and let it cool first.

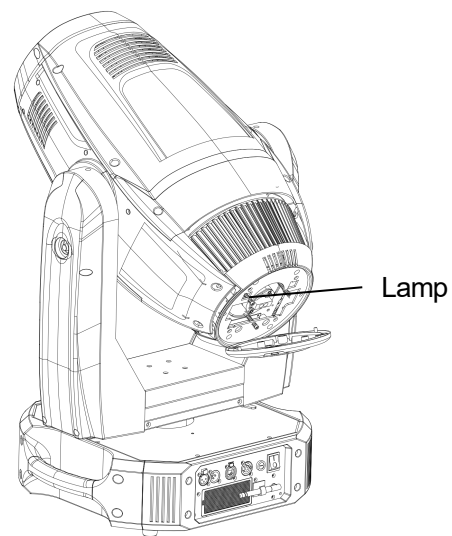
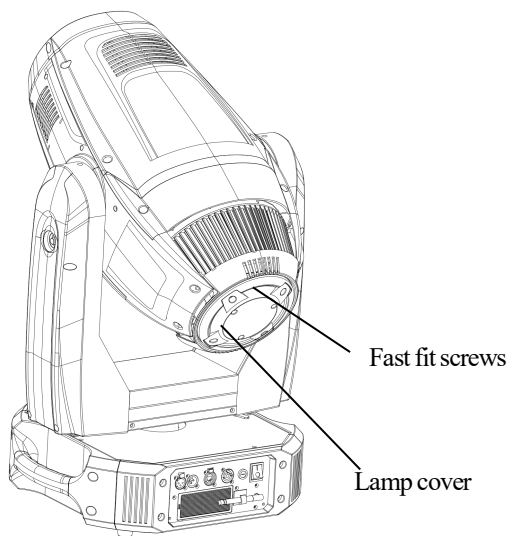
Lock Tilt in the figure below and open the lamp cover after its 4 screws are loosened.

After removal of the lamp cover, take out the lamp while the 2 screws at both ends of the lamp are loosened.

Insert a new lamp. Note: while placing a new lamp, do not touch the burner of the lamp with bare hands, otherwise the light output will be compromised.

Fasten the 4 fast-fit screws after the lamp cover is on

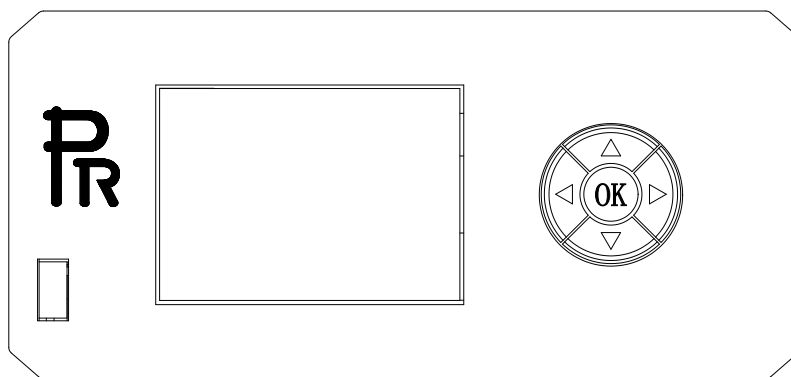
Important: The unit uses high voltage discharge lamp with external igniter(). While using the lamp, please carefully read "INSTRUCTIONS" packed with the lamp.



- Don't touch the internal surface of the reflector and the burner of the lamp with bare hands so as not to impair the beam output. While lamp's installation, do not damage the metal wire around the burner.
- Please read "Instructions " enclosed with the lamp
- Do operate the projector while adjusting the lamp

5.SETUP AND CONFIGURATION

.FRONT PANEL OPERATION



The projector configuration can be set conveniently via push buttons and color touch screen.

To browse through or change the projector's settings, touch the white area of the touch screen or press OK button for more than 3s(Only powered by the battery, pressing the OK button) to unlock the screen, then press key to enter the projector's function menus. Each main menu has its sub-menus. And each menu stands for special function. For the details, please see the following 6th point "Operation Menu":

1. At the page to set the fixture's functions, press , , , keys or their respective icons to select the functions desired.
2. While at 2nd, 3rd and 4th level of menus, the key is for ESCAPE, but key won't work, and key is used for ENTER. Press key to save the changes or enter into the sub menus. Press or keys to change the numbers(minus or plus). Or touch the option needed for change.

Shortcut keys: After the Function Menu is entered into, there are all options for the functions on the top of the screen. On the right there are 3 shortcut keys like , Lamp Control and English/Chinese.

• DMX START ADDRESS

Each projector must be given a DMX start address so that the correct projector responds to the correct control signals. This DMX start address is the channel number from which the projector starts to "listen" to the digital control information being sent out from the controller. The projector has 3 DMX modes. There are standard mode, short mode and extended mode. For example standard mode has 23channels, so set the No. 1 projector's address 001, No. 2 projector's address 024, No. 3 projector's address 047, No. 4 projector's address 070, and so on.

Switch on the Projector. Press key more than 3 seconds to unlock panel, then press key to enter into the fixture's operation menus.

Select DMX Address icon and press OK key or touch the icon directly on the display and select DMX address at the 2nd level menu for the address setting.

Press or keys or touch <, > displayed for the DMX address desired.

Press OK key to confirm.

Press the key to go back to the upper level menu.

• DMX WIRELESS CONTROL

The wireless control is optional. If fitted with wireless DMX module and the antenna, the fixture can achieve remote control and do as commanded.

The setup of it is below:

1. Press for more than 3s to unlock the control panel, then press key to enter into the operation menu and select "Config Settings".
2. Select "Wireless First" or "Wireless Only" from the menu of "Signal Select".

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 Un-link Wireless under the upper level menu of Config Settigns, then the fixture is unlinked with the

wireless transmitter.

•STAND-ALONE MODE

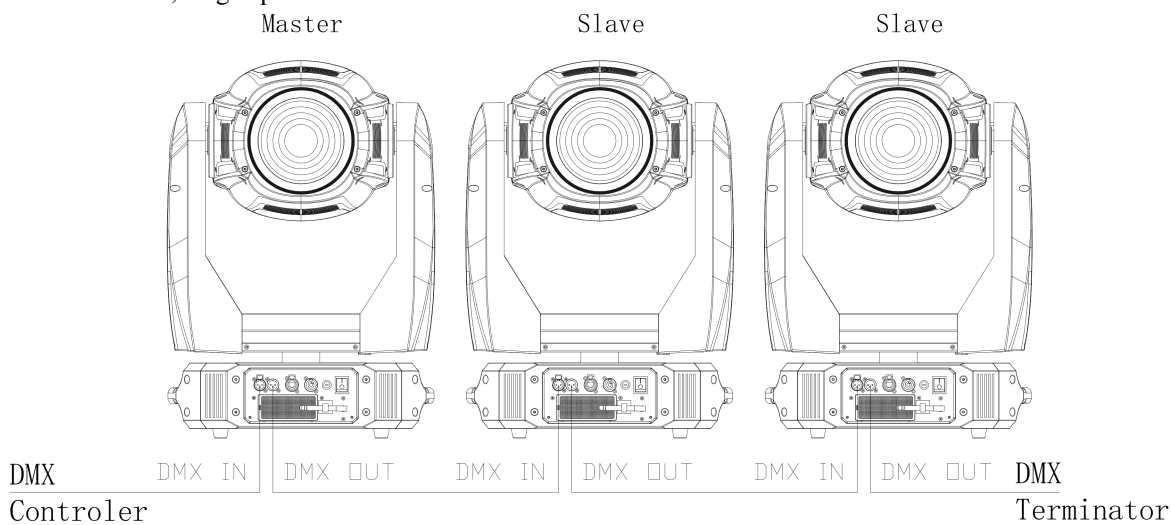
Operate the projector without connecting with a controller, enable the master mode through the operation panel, the projector will run in Stand-Alone mode automatically.
DMX address can be set at any number within 512.

•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



6.OPERATION MENU

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL
Address	DMX 地址 DMX Address	1-495 (Short Mode) 1-490 (Standard Mode) 1-486 (Extended Mode)		
	IP Address	Default IP Address Custom IP Address	2.X.X.X/10.X.X.X X.X.X.X	
	SubNet Mask	X.X.X.X		
	ArtNet Universe	0-255		
	sACN Universe	1-63999		
Reset	Total Reset	Really Reset?		
	Pan&Tilt Reset	Really Reset?		
	Colour System Reset	Really Reset?		
	Zo.Fo.Fr. Reset	Really Reset?		
Config Settings	DMX Channel Mode	Short Mode 18CH		
		Standard Mode 23CH		
		Extended Mode 27CH		
		View Selected Mode		
	Lamp Control	Lamp Control	OFF/ON	
		On By Power On	OFF/ON	
		Control By DMX	OFF/ON	
		Lamp Power	1200/1400	
	Signal Select	XLR Only		
		XLR First		
		Wireless Only		

		Wireless First		
		Wireless In/XLR Out		
		ARTNET Only		
		ARTNET/XLR Out		
		sACN Only		
		sACN In /XLR Out		
	Loss of DMX	Normal time out		
		Hold Last Value		
	Display Config	Display Mode	Off/After Delay	
			On Always	
		Display Invert	Invert OFF	
			Invert ON	
			Invert Auto	
		Language Setting	English	
			Chinese	
		Touch Calibration	Input Password123	
	Temperature Unit	Celsius Degree		
		Fahrenheit Degree		
	Un-Link Wireless	Really Un-Link?		
	Factory Defaults	Restore Defaults?		
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	Dimmer Invert	OFF/ ON	
		Zoom Invert	OFF/ ON	
		CMY Invert	OFF/ ON	
		CTO Invert	OFF/ ON	
	Dimmer Curve	Linear/ Square Law		
	Defaults	Restore Defaults?		
Information	View DMX Values			
	Lamp Hours	Reset Lamp Hours		
	Total Hours			
	Temperature	Display Board XX°C/F		
		Pan and Tilt XX°C/F		
		Driver Board 1 XX°C/F		
		Driver Board 2 XX°C/F		
		Driver Board 3 XX°C/F		
		Fan Board XX°C/F		
		Head Sensor XX°C/F		
	Software Version	Display Board	System= XXX Boot=XXX	
		Pan and Tilt	System= XXX Boot=XXX	
		Driver Board 1	System= XXX	

			Boot=XXX	
		Driver Board 2	System= XXX Boot=XXX	
		Driver Board 3	System= XXX Boot=XXX	
		Fan Board	System= XXX Boot=XXX	
	Electronic SN	Electronic SN= *****		
	RDM Device Label	RDM Device Label ANSI E1.20 RDM Version X.X		
	Fan Status	Base Fan Ballast Fan Lamp T Fan1 CMY Fan1 Strobe Fan Front Fan1 Front Fan2 Side Fan 1 Side Fan 2 Lamp R Fan1 Lamp R Fan2		
	XY Encoder			
	Lamp Fan Error			
Service	Manual Effect Control	Strobe XXX		
		DimmerXXX		
		...		
	Factory Test			
Operation Mode	DMX Mode	Change Operation Mode?		
	Master Mode	Preset Memory	Change Operation Mode?	
		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 /Edit User Memory 2	Scene XX (1~200 Scenes)	Strobe XXX
				Dimmer XXX
				...
		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	Description	Decimal low	Decimal High
1	1	1	Strobe		

			Close (The lamp's power changes into 1200W 5 seconds after strobe blades close.)	0	10
			Open	11	25
			Strobe from slow to fast	26	225
			Strobe macros (Strobe at random from fast to slow)	226	246
			Open	247	255
2	2	2	Dimmer		
			Close	0	0
			Linear dimmer (0-100%)	1	255
	3	3	Dimmer in 16 bit		
			Dimmer in 16 bit adjustment	0	255
3	4	4	CYM macros		
			The following functions will disable CMY, CTO, color wheel1 and color wheel2		
			No function	0	7
			Color macro1	8	9
			Color macro2	10	11
			Color macro3	12	13
			Color macro4	14	15
			Color macro5	16	17
			Color macro6	18	19
			Color macro7	20	21
			Color macro8	22	23
			Color macro9	24	25
			Color macro10	26	27
			Color macro11	28	29
			Color macro12	30	31
			Color macro13	32	33
			Color macro14	34	35
			Color macro15	36	37
			Color macro16	38	39
			Color macro17	40	41
			Color macro18	42	43
			Color macro19	44	45
			Color macro20	46	47
			Color macro21	48	49
			Color macro22	50	51
			Color macro23	52	53
			Color macro24	54	55
			Color macro25	56	57
			Color macro26	58	59
			Color macro27	60	61
			Color macro28	62	63
			Color macro29	64	65

Color macro30	66	67
Color macro31	68	69
Color macro32	70	71
Color macro33	72	73
Color macro34	74	75
Color macro35	76	77
Color macro36	78	79
Color macro37	80	81
Color macro38	82	83
Color macro39	84	85
Color macro40	86	87
Color macro41	88	89
Color macro42	90	91
Color macro43	92	93
Color macro44	94	95
Color macro45	96	97
Color macro46	98	99
Color macro47	100	101
Color macro48	102	103
Color macro49	104	105
Color macro50	106	107
Color macro51	108	109
Color macro52	110	111
Color macro53	112	113
Color macro54	114	115
Color macro55	116	117
Color macro56	118	119
Color macro57	120	121
Color macro58	122	123
Color macro59	124	125
Color macro60	126	127
Color macro61	128	129
Color macro62	130	131
Color macro63	132	133
Color macro64	134	135
Color macro65	136	137
Color macro66	138	139
Color macro67	140	141
Color macro68	142	143
Color macro69	144	145
Color macro70	146	147
Color macro71	148	149
Color macro72	150	151
Color macro73	152	153

			Color macro74	154	155
			Color macro75	156	157
			Color macro76	158	159
			Color macro77	160	161
			Color macro78	162	163
			Color macro79	164	165
			Color macro80	166	167
			Color macro81	168	169
			Color macro82	170	171
			Color macro83	172	173
			Color macro84	174	175
			Color macro85	176	177
			Color macro86	178	179
			Color macro87	180	181
			Color macro88	182	183
			Color macro89	184	185
			Color macro90	186	187
			Color macro91	188	189
			Color macro92	190	191
			Color macro93	192	193
			Color macro94	194	195
			Color macro95	196	197
			Color macro96	198	199
			CMY color mixing fade from slow toast	200	255
4	5	5	Cyan		
			Cyan (Linear 0-100%)	0	255
		6	Cyan in 16 bit		
			Cyan 16 bit adjustment	0	255
5	6	7	Yellow		
			Yellow (Linear 0-100%)	0	255
		8	Yellow in 16 bit		
			Yellow 16bit adjustment	0	255
6	7	9	Magenta		
			Magenta (Linear 0-100%)	0	255
		10	Magenta in 16bit		
			Magenta 16 bit adjustment	0	255
7	8	11	CTO		
			Linear CTO from high t low	0	255
		12	CTO in 16 bit		
			CTO 16 bit adjustment	0	255
8	9	13	Color wheel1		
			Continuous positioning		
			Indexing 0-360°	0	63
			Positioning		

			White /Color1(Red)	64	67
			Color 1(Red)	68	71
			Color1(Red)/Color2(Yellow)	72	75
			Color2(Yellow)	76	79
			Color2(Yellow)/Color3(Blue)	80	83
			Color3(Blue)	84	87
			Color3(Blue)/Color4(Green)	88	91
			Color4(Green)	92	95
			Color4(Green)/Color5(Pink)	96	99
			Color5(Pink)	100	103
			Color5(Pink)/Color6(Orange)	104	107
			Color6(Orange)	108	111
			Color6(Orange)/ Color7(UV)	112	115
			Color7(UV)	116	119
			Color7(UV)/Open	120	123
			Open	124	127
			Clockwise rainbow effect from slow to fast	128	191
			Anti-clockwise rainbow effect from slow to fast	192	255
	10	14	Color wheel1 in 16bit		
			Color wheel 1 continuous positioning , 16bit adjustment	0	255
9	11	15	Color wheel2		
			Continuous positioning	0	15
			Indexing 0-360°	0	63
			Positioning		
			White /Color1(Deep Red)	64	67
			Color 1(Deep Red)	68	71
			Color1(Deep Red)/Color2(Deep Magenta)	72	75
			Color2(Deep Magenta)	76	79
			Color2(Deep Magenta)/Color3(Light Magenta)	80	83
			Color3(Light Magenta)	84	87
			Color3(Light Magenta)/Color4(Light Yellow)	88	91
			Color4(Light Yellow)	92	95
			Color4(Light Yellow)/Color5(Light Green)	96	99
			Color5(Light Green)	100	103
			Color5(Light Green)/Color6(Deep Cyan)	104	107
			Color6(Deep Cyan)	108	111
			Color6(Deep Cyan)/ Color7(Light Cyan)	112	115
			Color7(Light Cyan)	116	119
			Color7(Light Cyan)/Open	120	123
			Open	124	127
			Clockwise rotation from slow to fast	128	191
			Anti-clockwise rotation from slow to fast	192	255
	12	16	Color wheel2 in 16bit		
			Color wheel2 continuous positioning , 16bit adjustment	0	255

10	13	17	Frost		
			Linear frost 0-100%	0	255
11	14	18	Focus		
			Linear Focus		
	15	19	Focus in 16 bit		
			Focus 16 bit adjustment		
12	16	20	Zoom		
			Linear Zoom	0	255
	17	21	Zoom in 16 bit		
			Zoom 16 bit adjustment	0	255
13	18	22	Pan		
			Pan movement	0	255
14	19	23	Pan in 16 bit		
			Pan movement in 16 bit	0	255
15	20	24	Tilt		
			Tilt movement	0	255
16	21	25	Tilt in 16 bit		
			Tilt movement in 16 bit	0	255
17	22	26	Pan & Tilt speed		
			Time mode	0	1
			Speed mode (speed from fast to slow)	2	255
18	23	27	Special function		
			No function	0	4
			Reserved	5	19
			The following function must stay in the DMX range for more than 5s to activate it		
			2.The lamp can be turned off 5minutes after it is on, And the lamp can be turned on 5 minutes after it is off.		
			3.to turn on or turn off the lamp, keep lamp control-DMX control signal as ON		
			Display on	20	24
			Display off	25	29
			Reserved	30	34
			Lamp power 1200W	35	39
			Lamp power 1400W	40	44
			Reserved	45	89
			Pan and tilt speed mode	90	94
			Pan and tilt time mode	95	99
			Reserved	100	129
			Lamp on	130	139
			Pan and tilt reset	140	149
			Color system reset	150	159
			Reserved	160	169
			Dimmer/ strobe reset	170	179

			Zoom	180	189
			Reserved	190	199
			Total reset	200	209
			Reserved	210	229
			Lamp off	230	239
			Reserved	240	255












Remark:

1. The projector can't be turned on within 5 minutes after the lamp-off.



2. Fan error can cause lamp-off.

3. "Speed Mode" means Pan and Tilt will move from Point A to Point B at their respective maximum speeds. "Time Mode" means both Pan and Tilt will arrive at designated point at the same time. It's advised Time Mode be used if the projector runs circles or in oblique lines.

8.SIGNS ON THE TOUCH SCREEN

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

9.ERROR MESSAGE

The system can detect some errors during the reset, if  displayed, touch  to view the error.
The error messages are as follows:

Name	Type	Correction
Pan	Timeout/magnet Sensor/Encoder	Check if wiring, positioning parts and motors are normal
Tilt	Timeout/magnet Sensor/Encoder	Check if wiring, positioning parts and motors are normal
Cyan	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
Yellow	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
Magenta	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
CTO	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
Color Wheel 1	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
Color Wheel 2	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
Dimmer	Timeout	Check if wiring and power supply are normal

Focus	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
Zoom	Timeout/magnet Sensor	Check if wiring, positioning parts and motors are normal
Lamp Fan1	Error	Check if fan and its wiring are normal
Lamp Fan2	Error	Check if fan and its wiring are normal
Head Fan1	Error	Check if fan and its wiring are normal
Strobe Fan	Error	Check if fan and its wiring are normal
Head Fan2	Error	Check if fan and its wiring are normal
CMY Fan	Error	Check if fan and its wiring are normal
Base Fan	Error	Check if fan and its wiring are normal
Pan and Tilt Board	Error	Check if signal wire and power supply are normal
Driver Board 1	Error	Check if signal wire and power supply are normal
Driver Board 2	Error	Check if signal wire and power supply are normal
Driver Board 3	Error	Check if signal wire and power supply are normal
Fan Board	Error	Check if signal wire and power supply are normal
Lamp on	Timeout	Check if the lamp is damaged
Lamp Life	Timeout /Warning	
Lamp Off[Fan Error]	Error	Check if all fans are normal
Time IC	Error	

10. TECHNICAL DATA

ELECTRIC PARAMETERS

Input voltage 200V~240V AC, 50/60Hz

Input power 1800W@220V

Power factor: PF>0.95

THE SPECIFICATIONS OF THE LIGHT SOURCE(WITH 1400W BALLAST AND IGNITER)

OSRAM	lok-it 1400/PS
Color temperature	6000K
CRI	>90
lamp stand	single ended
rated life	750hrs

COLORS

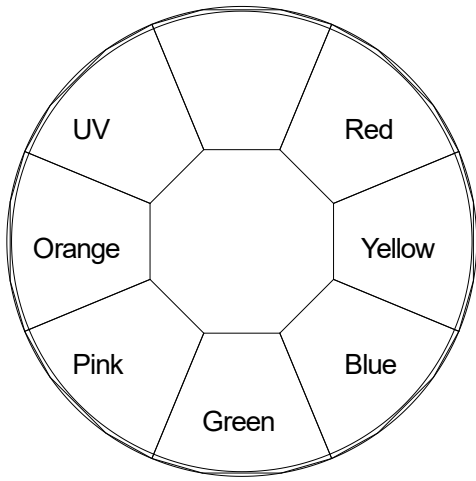
CMY linear mixing system with macros

2color wheels: 7colors+ Open, Half Color effect,

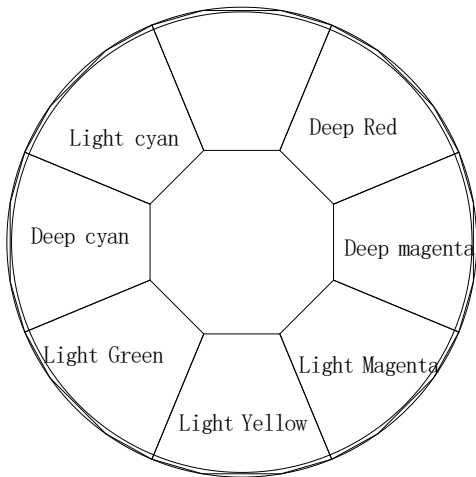
Rainbow effect with bi-directional and variable speeds,

Stepping/linear color changing

Color wheel1



Color wheel2



CTO

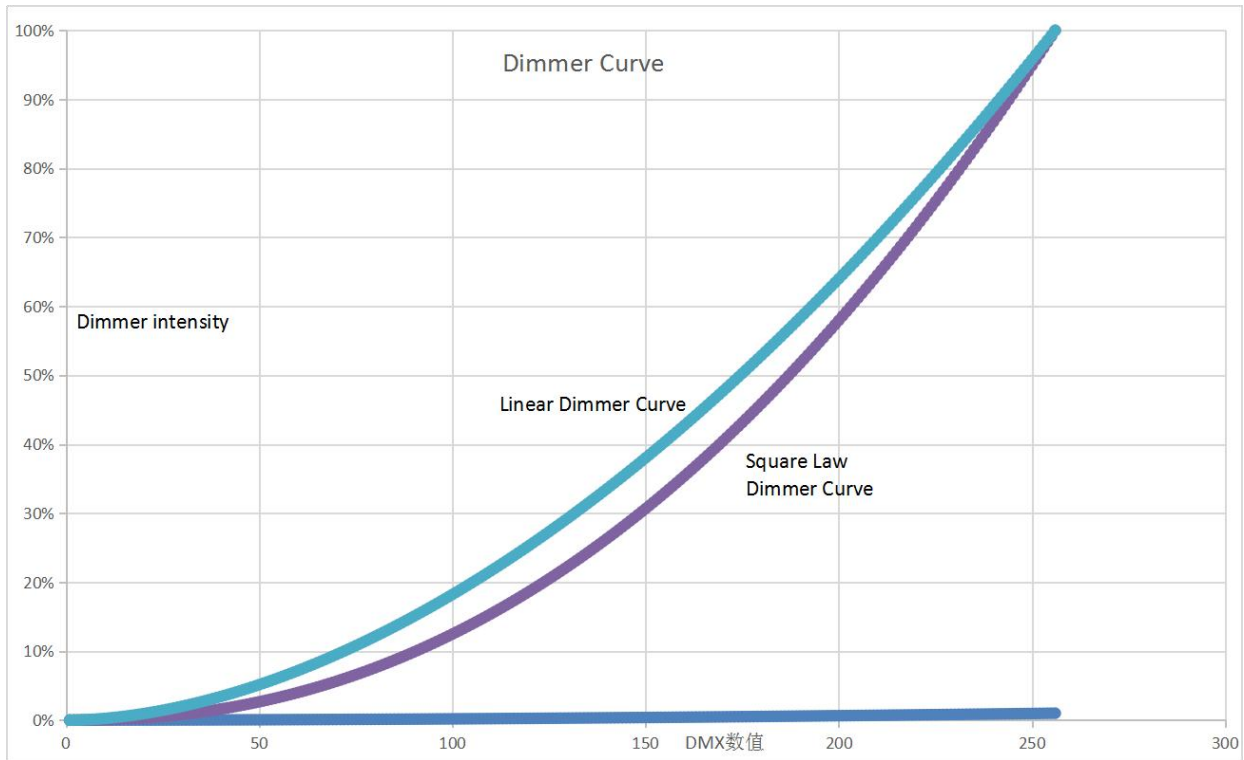
0-100% linear CTO

ZOOM

DMX linear zoom

DIMMER

0-100% linear dimmer



STROBE

Double shutter blades, 0.3~25 F.P.S

HEAD MOVEMENT

Pan 540°, Tilt 270° with auto position correction

BEAM ANGLE

Linear zoom 10°~ 60°with 16 bit function

CONTROL

DMX512, 5 pin interfaces

RDM control protocol

18channels in short mode, 23channels in standard mode and 27channels in extended mode

Self-test mode

OTHER FUNCTION

Adjustable Pan & Tilt speed

Lamp and Total hours displayed

Touch screen English and Chinese Display with Contrast and brightness adjustable

Energy saving ballast

Built-in sensor diagnostic system

Input signal isolation

Modular Structure for easy maintenance

Ethernet Interface

DMX512 wireless receiver

DMX512 Transmitter (Optional)

ArtNet and sACN (Optional)

HOUSING

High temperature ABS, IP20

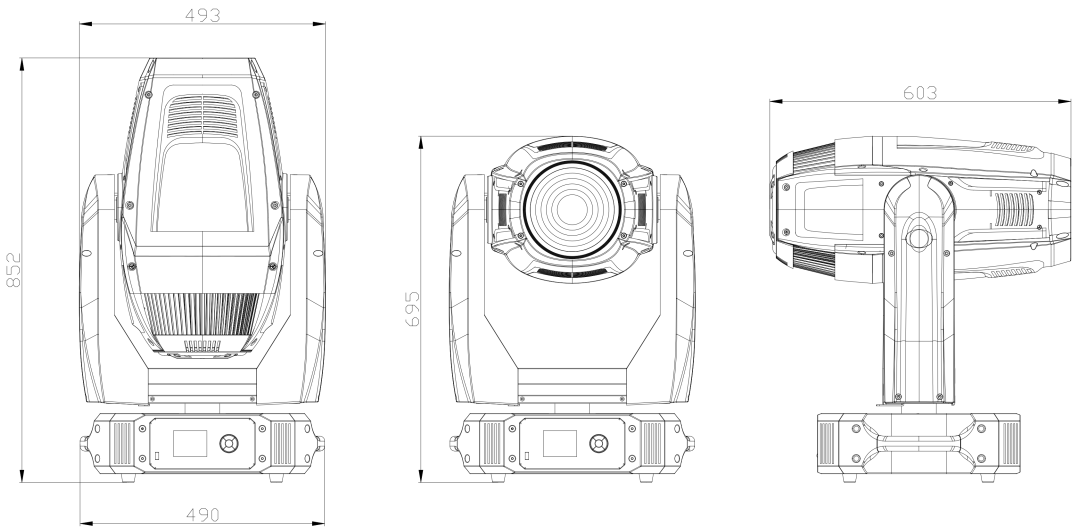
NET WEIGHT

44Kg

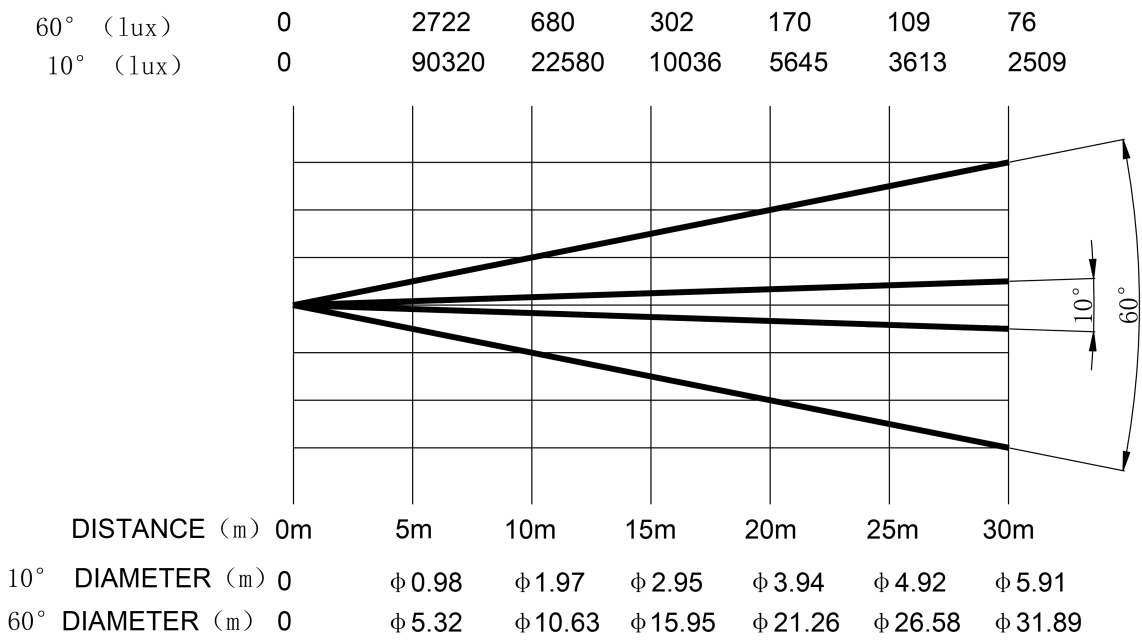
OPERATION TEMPERATURE

Ambient temperature at maximum: 40°C

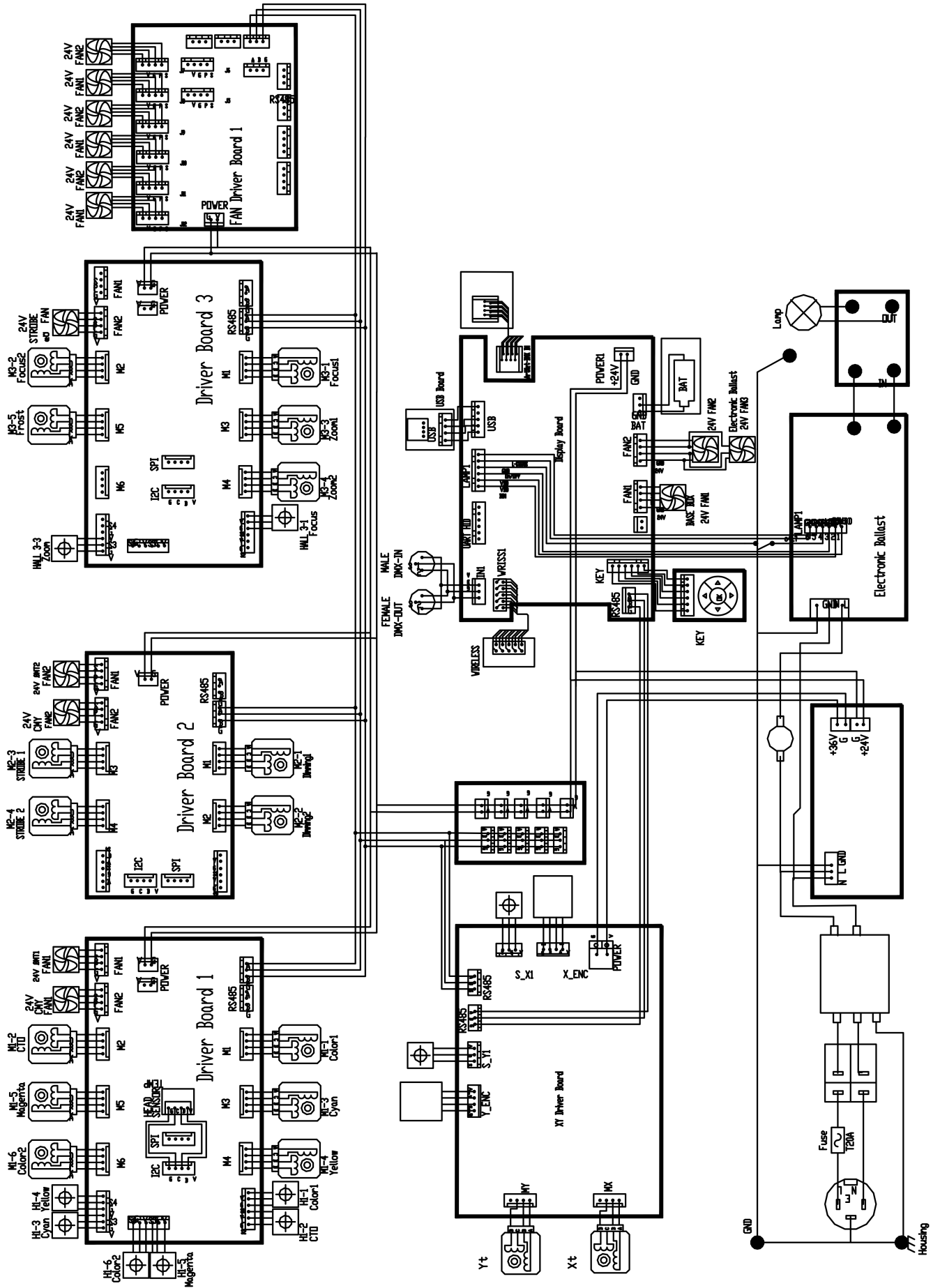
SIZES:



LIGHT OUTPUT:



11.CIRCUITDIAGRAM



12.COMPONENT ORDER CODES

NAME	CODE NUMBER	QTY	REMARKS
POWER SWITCH	230020689	1	
POWER FILTER	193020014	1	
THERMAL SWITCH	190010206	1	
ELECTRONIC BALLAST (1400W)	040070140	1	
LAMP (OSRAM 1400W)	100070047	1	
IGNITER (1400W)	040090066	1	
TILT BELT	290151205	1	
PAN BELT	290151207	1	
LAMP FAN	030060117	2	
HEAD FAN	030060119	2	
CHAMBER FAN	030060119	2	
STROBE FAN	030060117	1	
CMY FAN	030060119	2	
SIDE FAN	030060119	2	
BASE FAN	030060122	2	
BALLAST FAN	030069005	1	
FOCUS MOTOR	030040073	2	
ZOOM MOTOR	030040073	2	
PAN MOTOR	030040262	1	
TILT MOTOR	030040262	1	
STROBE MOTOR	030040214	2	
COLOR WHEEL MOTOR	030040214	2	
FROST MOTOR	030040248	1	
CMY MOTOR	030040114A	3	
CTO MOTOR	030040114A	1	
DIMMER MOTOR	030040093	2	

Appendix: SOME ITEMS REQUIRING ATTENTION AS FOR THE USE OF DISCHARGE LAMP

For the effective extension of the lifespan of discharge lamp, some factors impacting its lifespan are specially listed below, based on manufacturing technology and working mechanism of discharge lamps., physical attributions of the lamps including lamp striking theory(ignited by focused high voltage—highly pressurized air broken down and burning—lamp on at high temperature with thermal protection— stable running) and lamp off theory(lamp off power —lamp off at high temperature and thermal protection-highly pressurized air vaporizing evenly—completion of lamp off.

1. The sequence of lamp striking: Power on→lamp striking by controller(advised not to strike lamp via power on), the sequence of lamp off: lamp off by controller→mains power shut off (advised not to turn off lamp by shutting off mains power)
2. Within 1 min after lamp striking, it shouldn't re-strike it frequently. ONLY more than 10 min after the projector is cooled after lamp off, can the lamp be re-stricken again.
3. Within 5 min after lamp striking, it can't be turned off. During the lamp striking process, it's forbidden to turn off lamp via shutting off mains power, but via controller. More than 5 min after the projector is cooled after lamp off, can the mains power be shut off.
4. The projector is advised not to point to the same point for long time, i.e., it shouldn't be used for long time at a fixed angle.
5. The projector is advised not to use double colors for long time, i.e., it shouldn't use 2 or more colors for long time.
6. The projector is advised not to keep shutters closed while lamp on for long time, i.e., it should be less than 1 hr after shutters closed after lamp on.
7. It is advised not to use lamp half power function for long time.

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PR lighting will try its best to offer accurate and overall information about a product's technical data. Any changes won't be notified if necessary. Patented Products.
Counterfeiting Will be Prosecuted!

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