

XRLED 1600-W BWS PR-8193

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

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ACCESSORIES

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

Name	Quantity	Unit	Remark
XLR connectors	1	Set	Male and female
Safety cord	1	Pc	
User manual	0	Pc	QR Code
Power cord	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.

Note: For the products made by Guangzhou PR lighting Ltd, the warranty for the whole product is one year starting from the

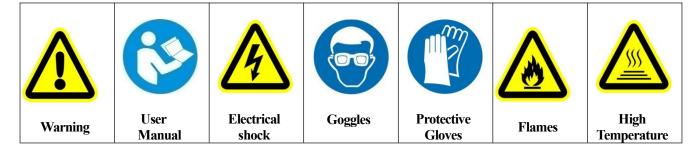
1. SAFETY AND WARNINGS



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.





- 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.



- 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.
- •lens and other optical parts shall be replaced immediately if they have deformed or been damaged, otherwise the light output will be compromised.
- For the location of a lighting fixture, 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 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 ambient temperature, the temperature of the external surface of the housing of the LED lighting fixture (the surface of the heat sink) is 75°C after the stable running.
- •While the LED is lit for the first time, there will be smoke and strange smell. It's normal and does not mean the projector has some defects.
- •While projector running, do not touch the metal housing with bare hand, otherwise get burned.
- Under normal ambient conditions, the housing's temperature should be less than 75°C.



- •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 10m.
- •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.
- •To avoid sunlight or other light penetrating into the head via the front lens, resulting in high temperature internally causing damages to the projector. Before power-off, please use Tilt channel to move the head and make it facing downward.



- 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

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 sunlight or other light penetrating into the head via the front lens, resulting in high temperature internally causing damages to the projector. Before power-off, please use Tilt channel to move the head and make it facing downward.
 - •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.

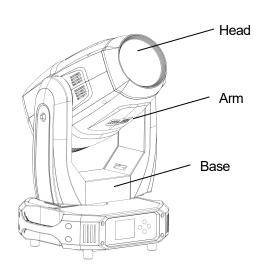
.LUBRICATION

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
	Check if the fuse is burned
	Check if the power cord is connected well
The projector can't be switched on	Check if the switching power supply is bad or not connected well. A
The projector can't be switched on	professional technician is required for the repair
	Check if the control board is connected well. A professional technician
	is required for the repair
The projector can be switched on, but the LED	Check if the LED driver board is connected well. A professional
lamp's brightness can't be controlled	technician is required for the repair
The projector can be switched on normally, but	Make sure that the fixture's start address is right
not controlled by the DMX controller	Replace or repair the XLR signal cable.
The beam is not bright and its brightness	Make sure the fans are working well or fans and their shields are not blocked
decreases sharply	by dust.
decreases sharpry	Make sure that the internal optics is clean.
The project image appears to have a halo	Carefully clean the LED lamp, optical lenses and other components.
Heavily Defective Beam	➤ Check if lens are in good condition(not cracked)
Treavily Defective Death	Clean dust or grease on the lens.

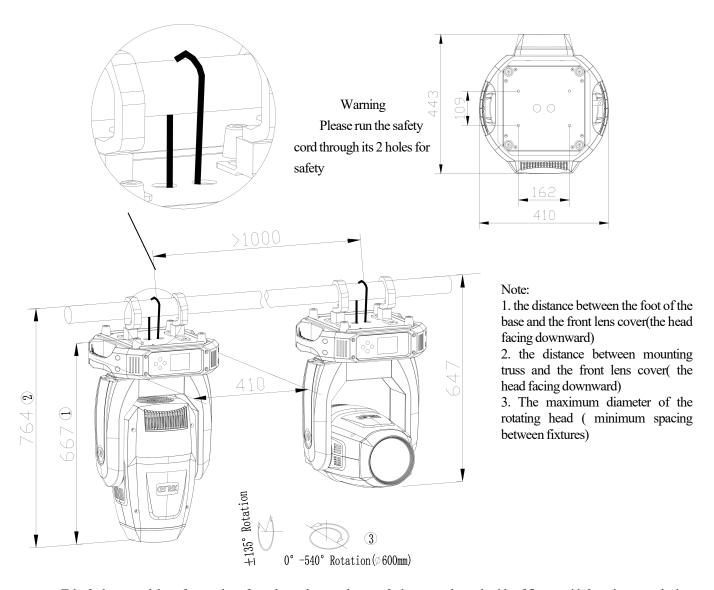
3. APPEARANCE



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 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 <u>WARNING</u> on the underside of the base as shown above) <u>To pass the SAFETY CORD through the HOLES for safety!</u> 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 a projector.



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

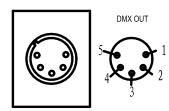
Before power connection, please ensure the power supplied must match what the nameplate says. It is recommended that each projector be connected with power separately so that they may be individually switched on and off.

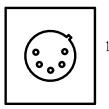


•The earth wire(yellow/green) must be connected to the ground. And electrical connection must be in accordance with the standards concerned.

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

5-PIN





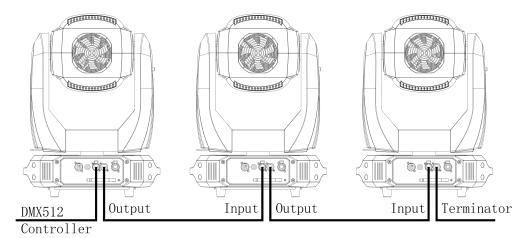




Connection between controller and projector and between one projector and another must be made with a twin-screened cable, with each wire having at least a 0.5mm in diameter. Connection to and from the projector is via cannon 5 pin (which are included with the projector) or 5 pin XLR plugs and sockets. 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 XR330BWS 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.

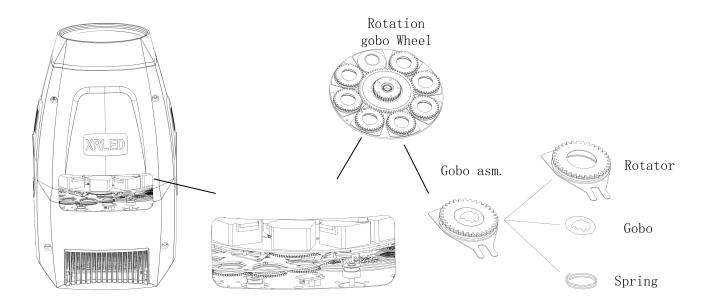
The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



DMX TERMINATOR
CONNECTION
Connect a 120**Ω** (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.



GOBO REPLACEMENT



Open the head cover after locking the Tilt and loosening 6 fast-fit screws of the cover and the structures as illustrated by the above figures will be seen.

For the rotating gobos: Take out the rotators by hand and remove the spring and gobo. Place a new gobo into the rotator and put back the spring. Ensure the spring is in the narrower side of the rotator, i.e. inner circle of the rotator, and flatten it. At last, use proper tool to compress the spring and with the help of the other hand place the rotator back to its original place in the wheel.

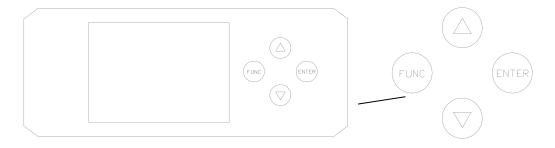
Note: Do not touch the color filter and gobos by hand. Clean and soft paper or cloth must be between hands and gobos or color filters. Tighten the 6 fast-fit screws after the head cover is on. Unlock the Tilt.



DANGER!

Before replacement of gobos, the projector must be off the power.

5. SETUP AND CONFIGURATION • FRONT PANEL OPERATION



The configuration and start address of a projector can be set conveniently via touch buttons..

To browse through or change the projector 's settings, press ENTER button for more than 3s(Only powered by the battery, press the ENTER button) to unlock the screen , then press \blacktriangledown button 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 6^{th} point "Operation Menu"::

- 1. At the page to set the fixture's functions, press FUNC, ENTER, ▲ , ▼ buttons to select the functions desired.
- 2. While at 2nd,3rd and 4th level of menus, the FUNC button is for ESCAPE, and ENTER button is for confirmation, Press ENTER

button to save the changes or enter into the sub menus. Press or buttons to change the numbers (minus or plus).

Push the FUNC button to go back to the upper level menu. Otherwise, the system will go back to initial status.

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 36 channels, so set the No. 1 projector's address 001, No. 2 projector's address 037, No. 3 projector's address 073, and so on.

The detailed operation:

- 1. Enter the menus of a projector and press ▲ or ▼ button to locate the function desired. Press ENTER button to enter DMX settings.
- Select DMX ADDRESS and press ▲ or ▼ button to set the value desired.
 Then press ENTER button to confirm and press the FUNC button to go back to the upper level menu.

•DMX WIRELESS CONTROL

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

The detailed setup:

- 1. Enter the menu and press ▲ or ▼ button to select the function desired. Press ENTER button to enter "Config Settings".
- 2. Select "Wireless First" from the menu of "Signal Select". (Note: Do not select XLR ONLY). Then "W-DMX" LED indication on the control panel in the base will be on, meaning the wireless function is activated.

Only after the projector is linked with a wireless 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.

.FAN SPEED MODES

It has standard and theater modes. Theater mode is quiet mode.

Its setups are as follows:

- 1. Hold the "ENTER" button for more than 3s to unlock the control panel and then push volume button to enter into the menus and select "Option Settings".
- 2. Select either of Standard and theater modes after the menu of Fan Settings.

•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.

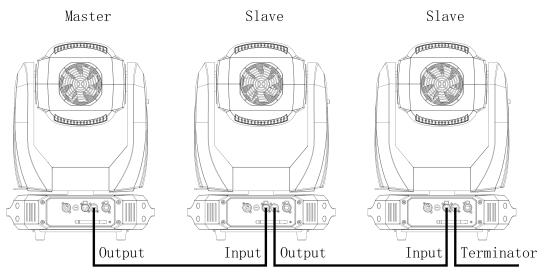
DMX address can be set at any number within 512.

•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 $1^{\rm st}$ 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



•TO SET UP COLOR TEMPERATURE AND COLOR MACRO

A projector has 7 color temperature macros and 89 standard color macros. Color temperatures are for respective 2700K,3000K,3500K,4000K,4500K,5000K and 5700K. Under the DMX channel of CMY macro, color macro and its color temperature macro can be selected.

•TO SET UP DIMMER CURVE AND LED REFRESH FREQUENCY

A projector has 5 dimmer curves: gamma 2.0, gamma 2.2, gamma 2.4 and gamma 2.6 and linear curve .

It has 8 LED refresh frequency: LED refresh frequency 1200Hz, LED refresh frequency 2400Hz, LED refresh frequency 4800Hz, LED refresh frequency 10000Hz, LED refresh frequency 12000Hz, LED refresh frequency 15000Hz, LED refresh frequency 20000Hz and LED refresh frequency 25000Hz.

It has fast, medium and slow dimmer speeds.

Its setups are as follows:

- Hold the ENTER button for more than 3s to unlock the control panel and then press
 ▼button to enter the menus and select "Option Settings".
- 2. Select "Dimmer Settings" and select any mode of gamma curve /LED frequency /dimmer speed for adjustment.

•PROJECTOR TYPE

It has 3 modes of moving head light, fixed focus profile light and zoom profile light.

For moving head light: linear zoom 5°-60°, standard fan mode;

For fixed focus profile light, it has 6 beam angles: 5° , 10° , 19° , 26° , 36° , 60° . After the beam angle selected, zoom lens can't move and the light spot can be focused via focus lens;

For zoom profile light, it has 3 bean angle ranges: 5-15°、15-35°、35-60°. If the beam angle range selected, zoom lens can move in the exact range accordingly and the light spot be focused via focus lens.

For fixed focus profile light and zoom profile light, it can enter into quiet theater mode automatically.

The setups are as follows:

- 1. Hold ENTER button for more than 3s to unlock control panel. After unlocking the control panel, push ▼ button to enter into operation menus and select "Options Settings"
- Select the projector type after entering into the menu of "Light Type"

•AUTO-FOCUS SETUP

A projector has auto-focus function for the distance ranges of 5m,10m,15m and 20m respectively. While any of Iris, Fixed gobo wheel and Rotating Gobo Wheel is in use, Auto-Focus channel for specified distance can automatically focus the image. Then use Auto-Focus Calibration channel to fine tune the focused image. Priority sequence: Rotating gobo wheel>Fixed gobo wheel>Iris.

•BRIGHTNESS CALIBRATION

For brightness calibration function, a controller can be used on the projectors in a DMX chain or a projector be done individually. After running for some time, the projectors need to be recalibrated in brightness for conformity with the help of LED brightness calibration channel via controller. The function has the following characteristics:

- 1. LED brightness calibration channel has 50 levels for adjustment with each level meaning power consumption decreases by 1%.
- 2. Calibration can be done on projectors in a DMX chain or a single one. After calibration done on a lot of projectors in a DMX chain, it can be done individually also if needed.
- 3. To avoid erroneous operation, after the fader of a DMX controller is at proper place for LED BRIGHTNESS CALIBRATION channel, the fader for channel of LED BRIGHTNESS CALIBRATION CONFIRMATION channel should be at right DMX value range to save parameters. The calibration is completed after the desired parameters are stored into the projectors.

•CRI MODE

It has HIGH CRI MODE and select it via DMX controller to activate it. The mode ensures high CRI optical effect.

6. OPERATION MENU

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL
	DMX Address	1-482 (short mode) 1-477 (STD mode) 1-472 (Extended mode)		
Address	IP Address	Default IP Address	2.X.X.X/10.X.X.X	
		Custom IP Address	X.X.X.X	
	SubNet Mask	X.X.X.X		
	ArtNet Universe	0-255		
	sACN Universe	1-63999		
	Total Reset	Really Reset?	Confirm or Cancel	
	Pan&Tilt Reset	Really Reset?	Confirm or Cancel	
Reset	Colour System Reset	Really Reset?	Confirm or Cancel	
	Gobo Reset	Really Reset?	Confirm or Cancel	
	Fo. Zo. Fr. Pr. Reset	Really Reset?	Confirm or Cancel	
	Other Reset	Really Reset?	Confirm or Cancel	
		Short 31CH		
	DMX Channel Mode	Standard 36CH		
	Diviz Chamer viode	Extended 41CH		
		View Selected Mode	.Ch.01 Strobe	
		XLR Only		
		XLR First		
		Wireless Only		
		Wireless First		
		Wireless In/XLR Out		
		ArtNet Only		
		ArtNet In/XLR Out		
	Signal Select	sACN Only		
G. C		sACN In/XLR Out		
Config Settings		Normal time out		
Seurigs	Loss of DMX	Hold Last Value		
	Display Config	Display Mode	Off After Delay	

			On Always	
			Invert OFF	
		Display Invert	Invert ON	
			Invert Auto	
		Language Setting	English Chinese	
	T	Celsius Degree		
	Temperature Unit	Fahrenheit Degree		
	Un-Link Wireless	Really Un-Link?	Confirm or Cancel	
	Factory Defaults	Restore Defaults?	Confirm or Cancel	
		Pan DMX Invert	OFF/ON	
		Tilt DMX Invert	OFF/ON	
	Pan/Tilt Settings	Pan Tilt Swap	OFF/ON	
	8	XY Feedback	OFF/ON	
		Pan/Tilt mode	Speed/Time	
		Gamma Curve	2.0/2.2/2.4/2.6/line	
	Dimmer Settings	Gamina Curve	1200/2400/4800/10000/12000/15000/2	
		LED Refresh rate	0000/25000Hz	
-		Dimmer speed	Fast/Medium/Slow Speed	
	Fan Settings	Standard/Theatre		
	Light Type	Moving Head 5-60		
Option		Profile 35-60		
Settings		Profile 15-35		
		Profile 5-15		
		Profile 60		
		Profile 36		
		Profile 26		
		Profile 19		
		Profile 10		
		Profile 5		
		Iris Invert	ON/OFF	
	Invert Settings	Zoom Invert	ON/OFF	
	mven bennigs	CYM Invert	ON/OFF	
		CTO Invert	ON/OFF	
	Defaults	Restore Defaults?	Confirm/Cancel	
	View DMX Values	Channel Value Strobe XXX Dimmer XXX		
	Lamp Hours	Reset Lamp Hours		
	Total Hours	Total Hours=XXX H		
		Display Board XX°C/F		
		Pan and Tilt Board XX°C/F		
		Driver Board 1 XX°C/F		
	Temperature	Driver Board 2 XX°C/F		
		Driver Board 3 XX°C/F		
IC.		Fan Board XX°C/F		
intormation		Led Sensor°C/F		
		Display Board	System=XXX Boot=XXX	
	Software Version	D 4-4-5		
		Pan and Tilt Board	-	
Information	Temperature	Display Board XX°C/F Pan and Tilt Board 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 Led Sensor°C/F Display Board Pan and Tilt Board	System= XXX Boot=XXX System= XXX Boot=XXX	

		Driver Board 1	System=XXX	
			Boot=XXX System=XXX	
		Driver Board 2	Boot=XXX	
		Driver Board 3	System=XXX Boot=XXX	
		Fan Board	System=XXX Boot=XXX	
	Electronic SN	XXXXXX		
	RDM Device Label	XRLED 1600-W BWS		
	RDIVI Device Labei	ANSI E1.20 RDM		
		Power Fan XXX		
		Base Fan XXX		
		Intake Fan1 XXX		
	Fan Status	Intake Fan2 XXX		
	ran Status	Gobo Fan XXX		
		Exhaust Fan XXX		
		LED Fan XXX		
		LDriver Fan XXX		
	Manual Effect Control	Strobe XXX		
		Dimmer XXX		
Service	Factory Test			
	DMX Mode	Change Operation Mode	Confirm/Cancel	
	Master Mode	Preset Memory	Change Operation Mode?	Confirm/Cancel
		User Memory 1	Change Operation Mode?	
Operation		User Memory 2	Change Operation Mode?	
Mode		Preset Memory	Change Operation Mode?	
	Stand-Alone Mode	User Memory 1	Change Operation Mode?	
		User Memory 2	Change Operation Mode?	
	Static Scene	Change Operation Mode?		
				Strobe XXX
		Edit User Memory 1		Dimmer XXX
		/ /	Scene XX	 D 1 T' VVV
	Edit Hoon Monager	Edit User Memory 2	(1~200Scenes)	Delay Time XXX Delay Unit
	Edit User Memory			Link To Step XXX
User			Strobe XXX	Zani 10 Sup 11111
User Memories		Edit Static Scene	Dimmer XXX	
		Reset User Memory 1	Reset User Memory?	Input Password123
	Init User Memory	Reset User Memory 2	Reset User Memory?	Input Password123
		Reset Static Scene	Reset Static Scene?	Input Password123

Note: signs on the touch screen

(i)	Config Settings		Option Settings
	Address		Information
A	Error Messages	S	Service
5	Reset	8	Operation Mode
	User Memories		

7. DMX CHART

Short mode	Standard mode	Extended Mode	Function	Decimal low	Decimal high
1110410	IIIoue	112040	Strobe	1011	
,			Close	0	
1	1	1	Pulse strobe speed from slow to fast	1	127
			Strobe from slow to fast	128	255
			Dimmer		
2	2	2	Close	0	0
			Linear dimming (0-100%)	1	255
	2	3	Dimmer Fine		
3	3	3	Dimmer in 16 bit	0	255
			CMY Macro		
			Disable CMY and CTO before the following functions		
			No function	0	7
			Color Temperature 2700K	8	9
			Color Temperature 3000K	10	11
			Color Temperature 3500K	12	13
			Color Temperature 4000K	14	15
			Color Temperature 4500K	16	17
3		4	Color Temperature 5000K	18	19
3	4	4	Color Temperature 5700K	20	21
			Color Macro 1	22	23
			Color Macro 2	24	25
			Color Macro 3	26	27
			Color Macro 4	28	29
			Color Macro 5	30	31
			Color Macro 6	32	33
			Color Macro 7	34	35
			Color Macro 8	36	37

		·
Color Macro 9	38	39
Color Macro 10	40	41
Color Macro 11	42	43
Color Macro 12	44	45
Color Macro 13	46	47
Color Macro 14	48	49
Color Macro 15	50	51
Color Macro 16	52	53
Color Macro 17	54	55
Color Macro 18	56	57
Color Macro 19	58	59
Color Macro 20	60	61
Color Macro 21	62	63
Color Macro 22	64	65
Color Macro 23	66	67
LEE 004 (Medium Bastard Amber)	68	69
LEE 010 (Medium Yellow)	70	71
LEE 019 (Fire)	72	73
LEE 026 (Bright Red)	74	75
LEE 058 (Lavender)	76	77
LEE 068 (Sky Blue)	78	79
LEE 071 (Tokyo Blue)	80	81
LEE 079 (Just Blue)	82	83
LEE 088 (Lime Green)	84	85
LEE 090 (Dark Yellow Green)	86	87
LEE 100 (Spring Yellow)	88	89
LEE 101 (Yellow)	90	91
LEE 102 (Light Amber)	92	93
LEE 103 (Straw)	94	95
Lee 104 (Deep Amber)	96	97
LEE 105 (Orange)	98	99
LEE 106 (Primary Red)	100	101
LEE 111 (Dark Pink)	102	103
LEE 115 (Peacock Blue)	104	105
LEE 116 (Medium Blue-Green)	106	107
LEE 117 (Steel Blue)	108	109
LEE 118 (Light Blue)	110	111
LEE 119(Deep Blue)	112	113
LEE 120 (Dark Blue)	114	115
LEE 121 (LEE Green)	116	117
LEE 128 (Bright Pink)	118	119
LEE 131 (Marine Blue)	120	121
LEE 132 (Medium Blue)	122	123
LEE 134 (Golden Amber)	124	125

Left 136 (Pale Lavender)				LEE 135 (Deep Golden Amber)	126	127
LEE 137 (Special Lavender)				LEE 136 (Pale Lavender)	128	129
L.E. 138 (Pulse Green)				· · · · · · · · · · · · · · · · · · ·	130	131
LEE 141 (Bright Blue)				LEE 138 (Pale Green)	132	133
LEE 147 (Apricol)				LEE 139 (Primary Green)	134	135
LEE 148 (Bright Rose)				LEE 141 (Bright Blue)	136	137
LEE 152 (Pale Gold)				LEE 147 (Apricot)	138	139
LEE 154 (Pale Rose)				LEE 148 (Bright Rose)	140	141
LEE 157 (Pink)				LEE 152 (Pale Gold)	142	143
LEE 158 (Deep Orange)				LEE 154 (Pale Rose)	144	145
LEE 162 (Bastard Amber) 150 151 LEE 164 (Flame Red) 152 153 LEE 165 (Daylight Blue) 154 155 LEE 169 (Lifac Tint) 156 157 LEE 170 (Deep Lavender) 158 159 LEE 172 (Lagoon Blue) 160 161 LEE 179 (Chrome Orange) 162 163 LEE 180 (Dark Lavender) 164 165 LEE 181 (Congo Blue) 166 167 LEE 197 (Alice Blue) 168 169 LEE 201 (Half C.T. Blue) 170 171 LEE 202 (Half C.T. Blue) 174 175 LEE 203 (Quarter C.T. Blue) 174 175 LEE 204 (Half C.T. Orange) 176 177 LEE 205 (Half C.T. Orange) 178 179 LEE 205 (Half C.T. Orange) 180 181 LEE 247 (LEE Minus Green) 182 183 LEE 248 (Three Quarter C.T. Drange) 188 189 LEE 285 (Three Quarter C.T. Orange) 188 189 LEE 285 (Three Quarter C.T. Orange) 190 191 LEE 275 (Cabana Blue) 190 191 LEE 775 (Cabana Blue) 194 195 LEE 778 (Millennium Gold) 196 197 LEE 793 (Vannity Fair) 198 199 CMY color mixing from slow to fast 200 255 Cyan (linear 0-100%) 0 255 Cyan (inear 0-100%) 0 255 Cyan in 16 Bit 0 255 Cyan in 16 Bit 0 255 Cyal (valor in 16 Bit) 0 255				LEE 157 (Pink)	146	147
LEE 164 (Flame Red)				LEE 158 (Deep Orange)	148	149
LEE 165 (Daylight Blue)				LEE 162 (Bastard Amber)	150	151
LEE 169 (Lilac Tint)				LEE 164 (Flame Red)	152	153
LEE 170 (Deep Lavender)				LEE 165 (Daylight Blue)	154	155
LEE 172 (Lagoon Blue)				LEE 169 (Lilac Tint)	156	157
LEE 179 (Chrome Orange) 162 163 LEE 180 (Dark Lavender) 164 165 LEE 181 (Congo Blue) 166 167 LEE 197 (Alice Blue) 168 169 LEE 201 (Full C.T. Blue) 170 171 LEE 202 (Half C.T. Blue) 172 173 LEE 203 (Quarter C.T. Blue) 174 175 LEE 204 (Full C.T. Orange) 176 177 LEE 205 (Half C.T. Orange) 178 179 LEE 206 (Quarter C.T. Orange) 180 181 LEE 247 (LEE Minus Green) 182 183 LEE 248 (Half Minus Green) 184 185 LEE 248 (Three Quarter C.T. Blue) 186 187 LEE 285 (Three Quarter C.T. Orange) 188 189 LEE 285 (Glacier Blue) 190 191 LEE 353 (Lighter Blue) 192 193 LEE 715 (Cabana Blue) 194 195 LEE 78 (Millennium Gold) 196 197 LEE 793 (Vanity Fair) 198 199 CMY color mixing from slow to fast 200 255 Cyan				LEE 170 (Deep Lavender)	158	159
LEE 180 (Dark Lavender)				LEE 172 (Lagoon Blue)	160	161
LEE 181 (Congo Blue)				LEE 179 (Chrome Orange)	162	163
LEE 197 (Alice Blue)				LEE 180 (Dark Lavender)	164	165
LEE 201 (Full C.T. Blue)				LEE 181 (Congo Blue)	166	167
LEE 202 (Half C.T. Blue)				LEE 197 (Alice Blue)	168	169
LEE 203 (Quarter C.T. Blue)				LEE 201 (Full C.T. Blue)	170	171
LEE 204 (Full C.T. Orange)				LEE 202 (Half C.T. Blue)	172	173
LEE 205 (Half C.T. Orange) 178 179 LEE 206 (Quarter C.T. Orange) 180 181 LEE 247 (LEE Minus Green) 182 183 LEE 248 (Half Minus Green) 184 185 LEE 281 (Three Quarter C.T. Blue) 186 187 LEE 285 (Three Quarter C.T. Orange) 188 189 LEE 352 (Glacier Blue) 190 191 LEE 353 (Lighter Blue) 192 193 LEE 715 (Cabana Blue) 194 195 LEE 778 (Millennium Gold) 196 197 LEE 793 (Vanity Fair) 198 199 CMY color mixing from slow to fast 200 255 Cyan				LEE 203 (Quarter C.T. Blue)	174	175
LEE 206 (Quarter C.T. Orange) LEE 247 (LEE Minus Green) LEE 248 (Half Minus Green) LEE 248 (Half Minus Green) LEE 248 (Half Minus Green) LEE 281 (Three Quarter C.T. Blue) LEE 285 (Three Quarter C.T. Orange) LEE 352 (Glacier Blue) LEE 353 (Lighter Blue) LEE 715 (Cabana Blue) LEE 715 (Cabana Blue) LEE 778 (Millennium Gold) LEE 778 (Millennium Gold) LEE 793 (Vanity Fair) CMY color mixing from slow to fast Cyan Cyan (linear 0~100%) Cyan Fine Cyan in 16 Bit O 255 Yellow				LEE 204 (Full C.T. Orange)	176	177
LEE 247 (LEE Minus Green) 182 183 LEE 248 (Half Minus Green) 184 185 LEE 248 (Half Minus Green) 186 187 LEE 281 (Three Quarter C.T. Blue) 186 187 LEE 285 (Three Quarter C.T. Orange) 188 189 LEE 352 (Glacier Blue) 190 191 LEE 352 (Glacier Blue) 192 193 LEE 715 (Cabana Blue) 194 195 LEE 778 (Millennium Gold) 196 197 LEE 793 (Vanity Fair) 198 199 CMY color mixing from slow to fast 200 255 Cyan Cyan (linear 0~100%) 0 255 Cyan Fine Cyan in 16 Bit 0 255 Vellow Vellow 186 187 LEE 248 (Half Minus Green) 184 185 LEE 248 (Half Minus Green) 184 LEE 248 (Half Minus Green) 184 185 LEE 248 (Half Minus Green) 184 195 LEE 352 (Glacier Blue) 194 195 LEE 352 (Glacier Blue) 194 195 LEE 248 (Half Minus Green) 188 189 LEE 248 (Half Minus Green) 194 195 LEE				LEE 205 (Half C.T. Orange)	178	179
LEE 248 (Half Minus Green) LEE 281 (Three Quarter C.T. Blue) LEE 285 (Three Quarter C.T. Orange) LEE 352 (Glacier Blue) LEE 353 (Lighter Blue) LEE 715 (Cabana Blue) LEE 715 (Cabana Blue) LEE 778 (Millennium Gold) LEE 793 (Vanity Fair) CMY color mixing from slow to fast Cyan Cyan (linear 0~100%) Cyan in 16 Bit Cyan in 16 Bit O 255 Yellow				LEE 206 (Quarter C.T. Orange)	180	181
LEE 281 (Three Quarter C.T. Blue) LEE 285 (Three Quarter C.T. Orange) LEE 352 (Glacier Blue) LEE 353 (Lighter Blue) LEE 353 (Lighter Blue) LEE 715 (Cabana Blue) LEE 715 (Cabana Blue) LEE 778 (Millennium Gold) LEE 793 (Vanity Fair) CMY color mixing from slow to fast Cyan Cyan (linear 0~100%) Cyan Fine Cyan in 16 Bit Vellow				LEE 247 (LEE Minus Green)	182	183
LEE 285 (Three Quarter C.T. Orange) LEE 352 (Glacier Blue) LEE 352 (Glacier Blue) LEE 353 (Lighter Blue) LEE 715 (Cabana Blue) LEE 715 (Cabana Blue) LEE 778 (Millennium Gold) LEE 793 (Vanity Fair) CMY color mixing from slow to fast Cyan Cyan Cyan (linear 0~100%) Cyan (linear 0~100%) Cyan in 16 Bit O 255 Yellow				LEE 248 (Half Minus Green)	184	185
LEE 352 (Glacier Blue) 190 191 LEE 353 (Lighter Blue) 192 193 LEE 715 (Cabana Blue) 194 195 LEE 778 (Millennium Gold) 196 197 LEE 793 (Vanity Fair) 198 199 CMY color mixing from slow to fast 200 255 Cyan Cyan (linear 0~100%) 0 255 Cyan Fine Cyan in 16 Bit 0 255 Yellow Yellow 190 191				LEE 281 (Three Quarter C.T. Blue)	186	187
LEE 353 (Lighter Blue) 192 193 LEE 715 (Cabana Blue) 194 195 LEE 778 (Millennium Gold) 196 197 LEE 793 (Vanity Fair) 198 199 CMY color mixing from slow to fast 200 255 Cyan Cyan (linear 0~100%) 0 255 Cyan Fine Cyan in 16 Bit 0 255 Yellow Yellow 198 199 198 199 199 198 199 200 255 255 198 199 198 199 198 199 200 255 198 199 200 255 198 199 200 255 200 255 255 255				LEE 285 (Three Quarter C.T. Orange)	188	189
LEE 715 (Cabana Blue) LEE 778 (Millennium Gold) LEE 778 (Millennium Gold) LEE 793 (Vanity Fair) CMY color mixing from slow to fast 200 255 Cyan Cyan (linear 0~100%) Cyan Fine Cyan in 16 Bit 7 Yellow				LEE 352 (Glacier Blue)	190	191
LEE 778 (Millennium Gold) 196 197 LEE 793 (Vanity Fair) 198 199 CMY color mixing from slow to fast 200 255 Cyan Cyan (linear 0~100%) 0 255 Cyan Fine Cyan in 16 Bit 0 255 Yellow Yellow Yellow				LEE 353 (Lighter Blue)	192	193
LEE 793 (Vanity Fair) 198 199 CMY color mixing from slow to fast 200 255 4				LEE 715 (Cabana Blue)	194	195
CMY color mixing from slow to fast 200 255 Cyan Cyan (linear 0~100%) 0 255 Cyan Fine Cyan in 16 Bit 0 255 Yellow				LEE 778 (Millennium Gold)	196	197
Cyan Cyan (linear 0~100%) 0 255 Cyan Fine Cyan in 16 Bit 0 255 Yellow Yellow				LEE 793 (Vanity Fair)	198	199
4 5 Cyan (linear 0~100%) 0 255 Cyan Fine Cyan in 16 Bit 0 255 Yellow				-	200	255
Cyan (linear 0~100%) 6 Cyan Fine Cyan in 16 Bit 7 Yellow 7	4	5	5			
Cyan in 16 Bit 0 255 Yellow		-	-	, ,	0	255
Cyan in 16 Bit 0 255 Yellow			6			
5 6 7					0	255
Yellow (linear 0~100%) 0 255	5	6	7			
				Yellow (linear 0~100%)	0	255

			Yellow Fine		
		8	Yellow in 16 Bit	0	255
_	_		Magenta		
6	7	9	Magenta (linear 0~100%)	0	255
			Magenta Fine		
		10	Magenta in 16 Bit	0	255
	_		СТО		
7	8	11	CTO(linear 0~100%)	0	255
			CTO Fine		
		12	CTO in 16 bit	0	255
			Color Wheel		
			Continual positioning		
			Indexing(0-360degrees)	0	63
			Positioning		
			Open/Color1 (Dark Red)	64	67
	9		Color1 (Dark Red)	68	71
			Color1 (Dark Red) / Color2(Yellow)	72	75
			Color2(Yellow)	76	79
		9 13	Color2(Yellow) / Color3(Blue)	80	83
			Color3(Blue)	84	87
			Color3(Blue)/Color4(Green)	88	91
8			Color4(Green)	92	95
			Color4(Green) / Color5(Pink)	96	99
			Color5(Pink)	100	103
			Color5(Pink) / Color6(Amber)	104	107
			Color6(Amber)	108	111
			Color 6(Amber) / Color 7(UV)	112	115
			Color 7(UV)	116	119
			Color7 (UV)/Open	120	123
			Open	124	127
			Rotation ,Clockwise from slow to fast	128	191
			Rotation, Anti-clockwise from fast to slow	192	255
			Color Wheel Fine		
	10	14	Color Wheel in 16 Bit	0	255
_			Iris		
9	11	15	Linear Iris from small to big 0-100%	0	255
			Iris Fine		
		16	Iris in 16 bit precision	0	255
			Iris Macro		
			Iris Macro disabled	0	10
1.0			Iris Macrol: from big to small with speed from slow to fast	11	74
10	12	17	Iris Macro2: from small to big with speed from slow to fast	75	138
			Iris Macro3: Iris contracts from slow to fast	139	202
			Iris Macro4(Macro1 at random) with speed from slow to fast	203	210

			Iris Macro5(Macro2 at random) with speed from slow to fast	211	218
			Iris Macro6(Macro3 at random) with speed from slow to fast	219	226
			Open	227	255
			Fixed gobo wheel	221	233
			Open	0	15
			Gobo 1	16	43
			Gobo 2	44	71
				72	99
			Gobo 3 Gobo4	100	127
11	13	18		128	151
			Rotation (clockwise From slow to Fast) Reverse Rotation (anti-clockwise From slow to Fast)	152	175
			Shake of Gobo 1 from slow to fast	176	195
			Shake of Gobo 2 from slow to fast	196	215
			Shake of Gobo 3 from slow to fast	216	235
			Shake of Gobo 4 from slow to fast	236	255
			Rotating Gobo Wheel		
	14		Open	0	15
		ł 19	Gobo1	16	29
			Gobo 2	30	43
			Gobo 3	44	57
			Gobo 4	58	71
			Gobo 5	72	85
			Gobo 6	86	99
			Gobo 7	100	113
12			Gobo 8	114	127
			Rotation (clockwise From slow to Fast)	128	151
			Reverse Rotation (anti-clockwise From slow to Fast)	152	175
			Shake of Gobo 1 from slow to fast	176	185
			Shake of Gobo 2 from slow to fast	186	195
			Shake of Gobo 3 from slow to fast	196	205
			Shake of Gobo 4 from slow to fast	206	215
			Shake of Gobo 5 from slow to fast	216	225
			Shake of Gobo 6 from slow to fast	226	235
			Shake of Gobo 7 from slow to fast	236	245
			Shake of Gobo 8 from slow to fast	246	255
			Gobo Rotation		
			Gobo Indexing(0~360 degrees)	0	128
13	15	20	Rotation (Clockwise From slow to Fast)	129	188
			Stop	189	195
			Rotation (Anti-Clockwise From slow to Fast)	196	255
			Gobo Rotation Fine		
		•	Gobo Rotation in 16 Bit	0	255
	16	21	Clockwise rotation from slow to fast	129	188
			Stop	189	195

			Anti-clockwise rotation from slow to fast	196	255
			Prism		
14 1	17	22	Open	0	16
			Prism	17	255
			Prism Rotation		
			Prism Indexing	0	127
			Stop	128	
15	18	23	Rotation(Clockwise from slow to fast)	129	191
			Stop	192	
			Rotation(Anti- Clockwise from slow to fast)	193	255
			Frost		
16	19	24	No	0	9
			Frost In(0-100%)	10	255
			Effect Wheel		
			No	0	10
17	20	25	Effect wheel in	11	20
			Effect wheel rotation from slow to fast	21	255
			Focus		
18 21		26	Linear Focus	0	255
			Focus Fine		
22		27	Focus in 16 bit precision	0	255
			Zoom		
19	23	28	Linear Zoom	0	255
	2.1		Zoom Fine		
	24	29	Zoom in 16 bit precision	0	255
			Autofocus		
			While channels for Iris, Framing module, Fixed gobo wheel		
			and Rotating Gobo Wheel are in use, the fixture has		
20			automatic focus function at some distance. Use "Autofocus		
			Calibrations" channel (21/26/31) to focus the image. Priority:		
			Rotating Gobo Wheel > Fixed Gobo Wheel > Iris		
	25	30	The following functions will disable the focus channel		
			(18/21/26) is disabled.		
			Autofocus Off	0	19
			Autofocus for 5M	20	39
			Autofocus for 10M	40	59
			Autofocus for 15M	60	79
			Autofocus for 20M	80	255
			Focus calibrations		
21	26	31	Focus calibrations up	0	127
			Focus calibrations down	128	255
22	27		Pan		
22	27	32	Pan(0°~540°)	0	255

			Pan Fine		
23	28	33	Pan in 16 bit	0	255
24 29		34	Tilt		
			Tilt(0°~270°)	0	255
25 30			Tilt Fine		
		35	Tilt in 16 bit	0	255
			Pan & Tilt Speeds		
26	21	36	Fast Mode	0	1
26	31				
			Pan & Tilt Speed from Fast to Slow	2	255
			CRI Mode		
27	32	37	Normal mode	0	127
			High CRI mode	128	255
			Power/Special Function		
			No function	0	4
			Reserved	5	19
		More than 5s in DMX values before work Graphic Display On Graphic Display Off Reserved Fan standard mode Fan theater mode Fast dimmer Medium dimmer Slow dimmer Gamma curve 2.0 Gamma curve 2.2 Gamma curve 2.4 Gamma curve 2.6 Line LED refresh rate 1200Hz LED refresh rate 2400Hz	More than 5s in DMX values before the following functions		
				20	24
				25	29
				30	46
				47	48
				49	50
				51	52
			Medium dimmer	53	54
			Slow dimmer	55	56
			Gamma curve 2.0	57	58
			Gamma curve 2.2	59	60
28	33		Gamma curve 2.4	61	62
20	33		Gamma curve 2.6	63	64
			Line	65	66
			LED refresh rate 1200Hz	67	68
			LED refresh rate 2400Hz	69	70
			LED refresh rate 4800Hz	71	72
			LED refresh rate 10000Hz	73	74
			LED refresh rate 12000Hz	75	76
			LED refresh rate 15000Hz	77	78
			LED refresh rate 20000Hz	79	80
			LED refresh rate 25000Hz	81	82
			Reserved	83	89
			Pan & Tilt Speed Mode ②	90	94
			Pan & Tilt Time Mode	95	99
			Reserved	100	129
			Reserved	130	139

			Pan & Tilt Reset	140	149
			Color wheel Reset	150	159
			Gobo Wheel Reset	160	169
			Reserved	170	179
			Zoom/Frost/Focus/Prism Reset	180	189
			Other Reset (Iris)	190	199
			Total Reset	200	209
			Reserved	210	255
			Fixture type		
		39	Select the type via menus	0	39
	34		Moving Head 5-60	40	59
			Profile 35-60	60	79
			Profile 15-35	80	99
20			Profile 5-15	100	119
29			Profile 60	120	139
			Profile 36	140	159
			Profile 26	160	179
			Profile 19	180	199
			Profile 10	200	219
			Profile 5	220	255
			LED brightness calibration 3		
30	35	40	No	0	127
			LED brightness 50%-100%, linear calibration	128	255
			LED brightness calibration confirmation		1
	36	41	Ready to store calibrated value	0	200
31			Store calibrated value in the fixture(stay in the DMX range	201	209
			for more than 5s)	201	209
			No	210	255

Remark:

- 1. Fan error can shut off light source.
- "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.
- 3. LED brightness standard with adjusting range between 50% and 100%. After completion, the desired parameters will be stored into the fixtures without repeated operations.

Procedures:

Step1: DMX value range for Channel LED brightness calibration is between 50 and 100 with according brightness range between 50% and 100%.

Step2:DMX value range for Channel LED brightness calibration confirmation is between 0 and 200. If the fader is moved between 201 and 209 and stays there for more than 5s, the desired brightness value will be stored into fixtures.

Step 3: Move the faders for DMX channels LED brightness calibration and LED brightness calibration confirmation respectively to zero.

If 100% brightness needed, move the fader for channel LED brightness calibration between 100 and 255 for Step 1 and repeat Step 2 and 3.

Under the menu, confirm Defaults/Restore default, LED brightness will go back to 100%.

8. ERROR MESSAGES

The system can detect some errors during the reset, if displayed, touch to view the error.





The error messages are as follows:	The error	messages	are as	fol	lows:
------------------------------------	-----------	----------	--------	-----	-------

Name	Туре	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	Check if wiring, positioning parts and motors are normal
Yellow	Timeout	Check if wiring, positioning parts and motors are normal
Magenta	Timeout	Check if wiring, positioning parts and motors are normal
СТО	Timeout	Check if wiring, positioning parts and motors are normal
Color Wheel	Timeout	Check if wiring, positioning parts and motors are normal
Fixed gobo wheel	Timeout	Check if wiring, positioning parts and motors are normal
Rot. Gobo Wheel	Timeout	Check if wiring, positioning parts and motors are normal
Rot. Gobo Rotation	Timeout	Check if wiring, positioning parts and motors are normal
Dimmer	Timeout	Check if wiring, positioning parts and motors are normal
Prism	Timeout	Check if wiring, positioning parts and motors are normal
Prism Rotation	Timeout	Check if wiring, positioning parts and motors are normal
Focus	Timeout	Check if wiring, positioning parts and motors are normal
Zoom	Timeout	Check if wiring, positioning parts and motors are normal
Effect wheel	Timeout	Check if wiring, positioning parts and motors are normal
Effect wheel rotation	Timeout	Check if wiring, positioning parts and motors are normal
Pan Board	Error	Check signal wire
Tilt Board	Error	Check signal wire
Driver Board 1	Error	Check signal wire
Driver Board2	Error	Check signal wire
Driver Board 3	Error	Check signal wire
Fan board	Error	Check signal wire
LED Off[Fan Error]	Error	Check if all fans are normal

9. TECHNICAL DATA ELECTRIC PARAMETERS

Input voltages: 100V~240V AC, 50/60Hz

 $\begin{tabular}{ll} Input Power: & 850W @ 220V \\ Power factor: & PF > 0.95 \\ Max. Current: & 3.9 A @ 220V \\ \end{tabular}$

LIGHT SOURCE SPECIFICATIONS

Power consumption: 700W, White LED module

Color Temperature: 8000K

Manufacturers Rated Lamp Life: >20000hour

 $CRI: Ra \ge 70$

COLORS

CMY color mixing system with macros

1 Color wheel: 7colors+Open,

Half color, bi-directional rainbow effect at variable speeds,

Stepping/linear color changing

CTO

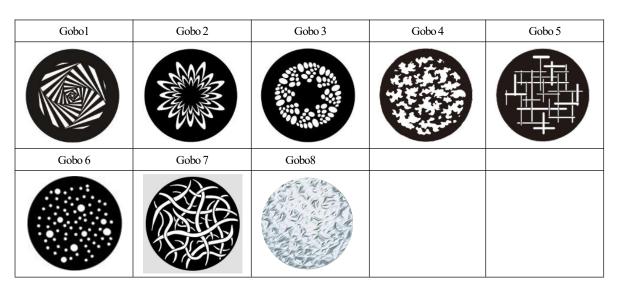
Linear CTO system(0-100%, 1800K-6500K)

ROTATING GOBO WHEEL

1 Rotating gobo wheel: 8 Rotating Gobos +Open

Bi-directionally rotatable, and shakable at variable speeds

Gobo Replaceable, Gobo diameter: Φ24mm, Gobo image diameter: Φ18mm

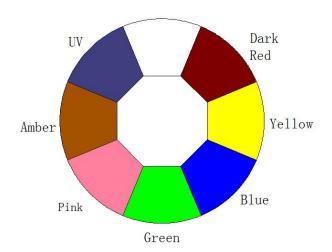


FIXED GOBO WHEEL

1 fixed gobo wheel:4 fixed Gobos +Open

Bi-directionally rotatable, and shakable at variable speeds

Di-uncctionally rotata	ioic, and snakabic at vari	aoic specus	
Gobo1	Gobo2	Gobo3	Gobo4



EFFECT WHEEL

Bi-directional rotation at variable speeds

IRIS

5-100% linear with macros

PRISM

1pc, 3-facet circular prism, bi-directional rotation at variable speeds with indexing function

FROST

1 frost filter ,0-100% linear

BEAM ANGLE

5°~60°, linear with 16 bit control

FOCUS

DMX linear with auto focus function

DIMMER

Linear electronic dimmer 0-100% with 16 bit control

3 dimmer speeds

5 dimmer curves

Dimmer frequency(1.2K-25K) good for 4K high speed video camera

STROBE

Electronic strobe 0.3~25 Hz, optional pulse, synchronized or non-synchronized strobe at slow, medium and fast speeds

HEAD MOVEMENT

Pan 540°, Tilt 270° with auto position correction and 16 bit control

ADVANCED MACROS

Color temperature macros: optional 2700K,3000K,3500K,4000K,4500K,5000K,5700K

Standard color macros: 89 color options based on standard color chart.

FIXED TYPE

Including moving head light, fixed-focus profile light, zoom profile light

Moving head light with beam angle range(5-60°)

Fixed focus profile light with beam angle options including 5°,10°,19°,26°,36°,60°

Zoom profile light with beam angle ranges including 5-15°,15-35°,35-60°

(Note: Auto quiet theater mode for fixed focus profile light and zoom profile light)

FAN MODE

Standard and theater modes. Theater mode is quiet mode

BRIGHTNESS CALIBRATION FUNCTION

With brightness calibration function to calibrate initial brightness for a single fixture or multiple ones and store brightness values into the fixtures

CRI MODE

Running at high CRI mode via DMX channel to ensure high CRI optical effect.

CONTROL

International standard DMX512 signal and RDM function

31 channels in short mode, 36 channels in standard mode, 41 channel in extended mode

Art Net protocol(optional), sACNprotocol(optional), DMX512 wireless control

Master/Slave mode

Standalone mode

Master Mode

CONTROL INTERFACE

DMX512 ports (5-pin)

Ethernet port RJ45

OTHER FUNCTIONS

Adjustable Pan & Tilt speeds

Pan and Tilt invertible and swappable

Light source's and fixture's hours displayed

LCD color Chinese/English screen, display invertible and touch keys

Intelligently controllable fans

Sensor diagnostic system

Input signal isolated

modular construction for easy maintenance

DMX channel voltages monitoring

Non-touchable magnetic sensor for positioning, signal feedback, absolute position memory, auto-positioning after power-off or DMX signal disrtuption

Firmware upgrade via DMX cable

Optional ethernet port

HOUSING

High temperature ABS, IP20

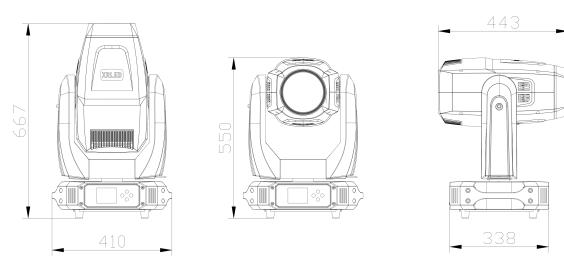
NET WEIGHT

23.6Kg

AMBIENT TEMPERATURE

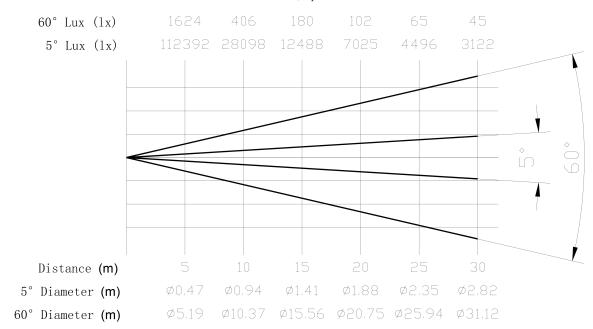
Temperature at maximum 45°C

SIZES(unit: mm)

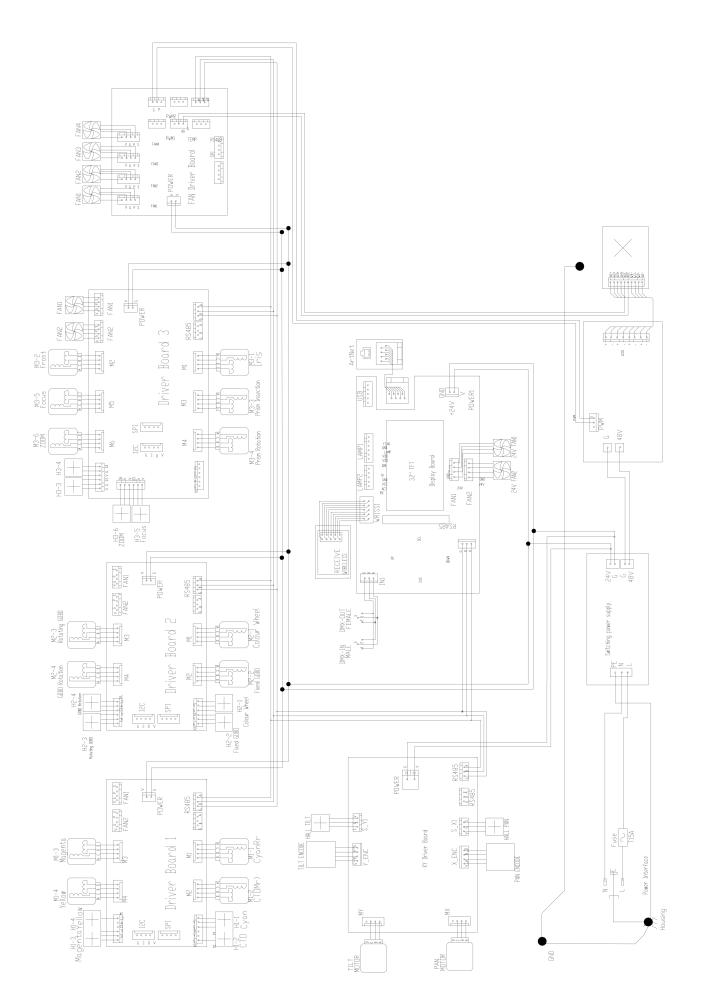


LIGHT OUTPUT





10. CIRCUIT DIAGRAM



11.COMPONENT ORDER CODES

NAME	CODE NUMBER	QTY	REMARK
SWITCHING POWER SUPPLY	192010228B	1	
LIGHT SOURCE	150020354	1	
POWER SUPPLY FAN	030060122	1	
BASE FAN	030060122	1	
LED DRIVER FAN	030060122	1	
EXHAUST FAN	030060117	1	
GOBO FAN	030060117	1	
INLET FAN 1	030060115	1	
INLET FAN 2	030060115	1	
LED FAN	030060142	1	
PAN MOTOR	030040276	1	
TILT MOTOR	030040276	1	
ZOOM MOTOR	030040217A	1	
FOCUS MOTOR	030040085A	1	
FIX GOBO WHEEL MOTOR	030040081B	1	
ROTATING GOBO WHEEL MOTOR	030040217A	1	
GOBO ROTATION MOTOR	030040219A	1	
CMY MOTOR	030040302	2	
CTO MOTOR	030040254A	2	
FROST MOTOR	030040221C	1	
COLOR WHEEL MOTOR	030040081B	1	
PRISM IN/OUT MOTOR	030040221C	1	
PRISM ROTATION MOTOR	030040289	1	
IRIS MOTOR	030040088	1	

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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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