

XR 330 Spot

PR-2350

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

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

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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 this 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.

ACCESSORIES

These items are packed together with the projector:

Name	Quantity	Unit	Remark
G clamps	2	Pcs	
XLR connector	1	Set	Without cable
Power Con	1	Set	With cable
User's manual	1	Pc	
Ω clamps	2	Pcs	Optional

SAFE USAGE OF THE PROJECTOR

When unpacking and before disposing of the carton check there is no transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The projector is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids.

The projector is not designed or intended to be mounted directly on to inflammable surfaces.



The projector is only intended for installation, operation and maintenance by qualified personnel.

The projector must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not project the beam onto inflammable surfaces, minimum distance is 3m.

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

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

Electrical connection must only be carried out by qualified personnel.

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

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

Keep the lamp clean. Do not touch the lamp glass with bare hand.

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

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

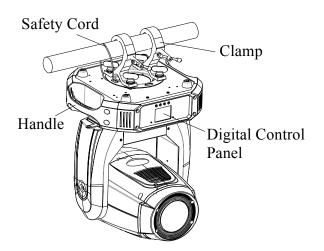
Exterior surface temperatures of the luminaire after 30 minutes operation is 45 °C, when steady state is achieved 60 °C,

There is no user serviceable parts inside the projector, do not open the housing and never operate the projector with the covers removed.

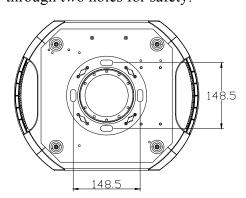
If you have any questions or suggestions, don't hesitate to consult your dealer or manufacturer

Always disconnection from Power, when the device not in use or before cleaning or any maintenance work!

INSTALL THE PROJECTOR



✓! Warning Please run the safety cord through two 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 <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 XR 330 Spot

WARNING:

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

FITTING THE LAMP

Lock the yoke before fitting/replacing /adjusting the lam just as Shown by Figure 1, after Opening the cover at the rear of the projector by loosening 8fastfit screws at both sides of the head.

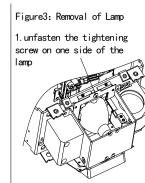
For lamp adjustment, please see the figure 2. The removal of a lamp is showed by the figure 3. Please tighten the power cord for the lamp before the installation.

Installation and removal are in reverse orders.

Note: don't touch the bulb of the new lamp with bare hands so as not to impair the beam output. Do not damage the sticking-out of the lamp. Important: Always read "Instructions for use" enclosed with the lamp.



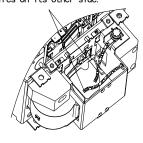
Figure2: lamp adjustment
1. open the fan after unfastening
four scews on both sides
of the fan.



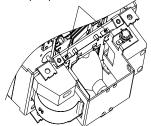




2. Take the lamp out after pushing it downward after removing two lamp wires on its other side.



3. use cross screw driver to adjust two screws to adjust the lamp's position



POWER SUPPLY-MAINS

Connect the power cord as follows:

L(live)=brown

E (earth) = yellow/green

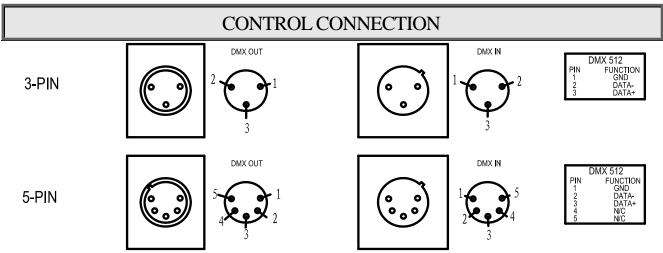
N (neutral) =blue

Before connection with mains power, make sure that the voltage and frequency marked on the rating plate of the projector match what are supplied. It is recommended that each projector be supplied separately so that they may be individually switched on and off.

Note: If several fixtures are connected in series via Power inlets and outlets of the fixtures. Connect the first fixture's POWER IN with the external power and connect its POWER OUT with the second fixture's POWER IN, and so on till all the fixtures are connected. If the supplied voltage is between 200V and 240V, the maximum number of the fixtures connected together in series is 8pcs, if between 100V and 120V, the maximum is 4 pcs. The size of the wires of the Power cord for POWER IN and OUT must be bigger or equal to 2.5mm².

IMPORTANT

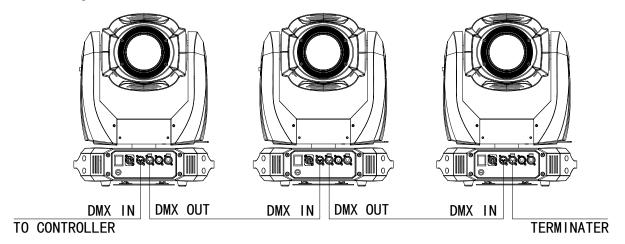
It is essential that each projector is correctly earthed(yellow/green twin wire) and the electrical installation conforms to all relevant standards.



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 XR 330 Spot 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.

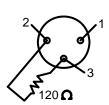


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DMX TERMINATOR

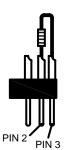
In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

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.

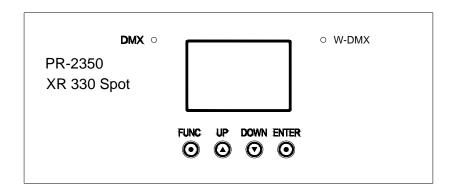


DMX TERMINATOR CONNECTION

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.



SETUP OPTIONS-PROJECTOR CONFIGURATION



Projector configuration can be set conveniently via push button and LCD display.

Launch the projector and press button ENTER for more than 5 seconds to unlock the panel, the LCD will show the function menu of the projector, each main menu has its submenus and each submenu has a specific function. For details, please see the "OPERATION MENU" section.

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

Press button ENTER to save your settings or enter the submenu.

Press button UP or DOWN to change values(plus or minus)

Press button FUNC, it will return to the upper menu. If button FUNC not pressed, the default will show display status automatically.

TO SET THE DMX START ADDRESS

Each XR 330 Spot 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 XR 330 Spot has 3 DMX modes. There are standard mode ,short mode and extended mode. For example standard mode has 25channels, so set the No. 1 projector's address 001, No. 2 projector's address 026, No. 3 projector's address 051, and so on. Launch the projector. Press button ENTER more than 5 seconds to unlock panel.

Press button ENTER to display DMX address;

Press button UP and DOWN, you can set the address;

Press button ENTER to confirm; after powered on next time, the default will be last value saved

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

STAND-ALONE MODE

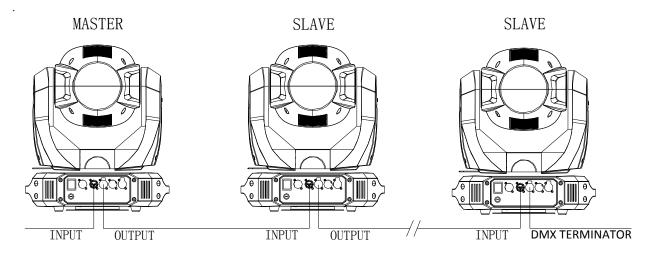
Operate the projector without connecting a controller, enable the master mode in the operation panel, the projector will run in Stand-Alone mode automatically.

MASTER/SLAVE MODE

Without using a controller, many projectors can run synchronously in the Master/Slave mode by linking them with each other. Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below. Then the first one is the master with setting options as master mode enabled, and others are slaves.

Start Address for all slaves is 001. The Master can run at any mode for the Master and Slaves run at the corresponding mode compared to the Master.

After powered on, the group will run at Master/Slave Mode.



OPERATION MENU

First Menu	Secondary Menu	Third Menu	Fourth Menu
DMX Address	XXX		
Reset	Are You Sure		
	DMX Mode (Default: Standard)	Standard Extended Short	
	Lamp Control	By Control Channel By Power On By DMX Present	
	Loss of DMX	When DMX is Lost Normal Time out	
Config Settings	2000 0. 2.112.	When DMX is Lost Hold Last value	
	Fan Operate Mode	Fan Operate Mode Normal Quieter Hot Environment	
	Factory Settings (Press button DOWN/UP/ENTER at the same time to enter the sub-menu)	Fixture Type (WARNING: Never change the fixture type or the fixture will be damaged!)	

Color research LINEAR F-Gobo Positions F-Gobo Positions F-Gobo Positions F-Gobo Positions LINEAR Pan DMX Invert		Color Positions	Color Positions STEPPED	
F-Gobo Positions		COIOI POSILIORIS		
F-Gdob Positions				
Pan DMX Invert OFF Tit DMX Invert Tit DMX Invert Tit DMX Invert ON Pan Tit Swap Pan Tit Swap OFF Pan Tit Swap ON Dimmer Invert OFF Dimmer Invert Iris Invert Iris Invert Iris Invert Iris Invert Iris Invert OFF Zoon Invert ON CMY Invert CMY Invert CMY Invert ON CMY Invert ON Defauts Pan Tit Swap ON CMY Invert OFF Defauts Pan Tit Swap ON CMY Invert OFF Defauts Pan Tit Swap ON CMY Invert OFF CMY Invert OFF CMY Invert ON Defauts Pan Tit Swap ON ON CMF Display Invert OFF CMY Invert ON Defauts Pan Tit Swap ON CMF Display Invert OFF CMY Invert ON Defauts Pan Tit Swap ON CMF CMF CMF CMN Display Invert Display Invert ON Display Invert Display In		E Caha Basitions		
Pan DMX Invert Pan DMX Invert OFF Pan DMX Invert OFF Pan DMX Invert OFF Till DMX Invert OFF Till DMX Invert ON Pan Till Swap OFF Pan Till Swap OFF Dimmer Invert OFF Dimmer Invert OFF Dimmer Invert OFF OFF Till Swap OFF Dimmer Invert OFF Dimmer Invert OFF OFF OFF Dimmer Invert OFF OFF OFF Dimmer Invert OFF OFF Dimmer Invert OFF OFF OFF Dimmer Invert OFF OFF OFF Dimmer Invert OFF OFF Dimmer Invert OFF OFF OFF Dimmer Invert OFF OFF OFF OFF OFF Dimmer Invert OFF OFF OFF OFF OFF OFF OFF OFF OFF OF		F-GODO POSITIONS	F-Gobo Positions	
Pan DMX Invert				
Pan DMX Invert				
Tilt DMX Invert		Pan DMX Invert	Pan DMX Invert	
Tilt DMX Invert				
Till DMX Invert				
Pan Tilt Swap OFF Pan Tilt Swap OFF Pan Tilt Swap OFF Pan Tilt Swap ON Dimmer Invert OFF Dimmer Invert OFF Dimmer Invert OFF Iris Invert Iris Invert ON Zoom Invert OFF CMY Invert OFF CMY Invert OFF CMY Invert OFF Defaults Display On Always Display Invert OFF Display Inve		Tilt DMX Invert		
Pan Tilt Swap				
Option Settings Part It it Swap ON ON ON ON ON ON ON ON OFF OFF OFF OFF			Pan Hit Swap OFF	
Dimmer Invert		Pan Tilt Swap		
Dimmer Invert	Option Settings			
Dirmer Invert	3			
Iris Invert		Dimmer Invert	Dimmer Invert	
Iris Invert				
Iris Invert				
Zoom Invert		Iris Invert		
Defaults				
Zoom Invert				
CMY Invert		Zoom Invert		
CMY Invert				
CMY Invert				
Defaults		CMY Invert		
Defaults				
Defaults Restore Defaults Restore Defaults Display On Always				
Display Mode		Defaults		
Display Mode				
Display Mode Display Off After Delay Display Invert Display Invert OFF Display Invert ON Disp Dim Level Min Disp Dim Level 1 Disp Dim Level 2 Disp Dim Level 2 Disp Dim Level 3 Disp Dim Level 4 Disp Dim Level 4 Disp Dim Level 5 Disp Dim Level 6 Disp Dim Level 6 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level 9 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full				
Display Invert		Display Mode	City uwayo	
Display Invert Display Invert OFF Display Invert ON Disp Dim Level Min Disp Dim Level 1 Disp Dim Level 2 Disp Dim Level 3 Disp Dim Level 3 Disp Dim Level 4 Disp Dim Level 4 Disp Dim Level 5 Disp Dim Level 6 Disp Dim Level 9 Disp Dim Level Full			Display	_
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Disp Dim Level Min		Display Invert		
Disp Dim Level Min Disp Dim Level 1 Disp Dim Level 2 Disp Dim Level 3 Disp Dim Level 4 Disp Dim Level 4 Disp Dim Level 4 Disp Dim Level 5 Disp Dim Level 6 Disp Dim Level 6 Disp Dim Level 7 Disp Dim Level 8 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full Disp Dim Level Company Disp Dim Level Company Disp Dim Level Dis		4 7	Display Invert ON	
Disp Dim Level			Disp Dim Level	
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Disp Dim Level 3 3 2 2 2 2 2 2 2				
3	Display Options		2 Dian Dian Laval	
Disp Dim Level 4 Disp Dim Level 5 Disp Dim Level 6 Disp Dim Level 7 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full				
Display Dimming Disp Dim Level 5 Disp Dim Level 6 Disp Dim Level 7 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full			Disp Dim Level	
Display Diffining 5				
Disp Dim Level 6 Disp Dim Level 7 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full		Display Dimming	5	
Disp Dim Level 7 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full			Disp Dim Level	
7 Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full			6 Dian Dian Laval	
Disp Dim Level 8 Disp Dim Level 9 Disp Dim Level Full				
Disp Dim Level 9 Disp Dim Level Full			Disp Dim Level	
9 Disp Dim Level Full			8 Disp Dim Lovel	_
Full			ыр ып Levei 9	
			Disp Dim Level	
			Full	

	Display Contrast	Display Contrast XX(1~21),default 11	
	Lamp Hours	Lamp Hours= XX	Reset Lamp Hours Are You Sure(UP/DOWN)
	Total Hours	Total Hours= XX	
		Display Board	Display Board= XX°C
		Driver Board 1	Driver Board 1= XX°C
		Driver Board 2	Driver Board 2= XX°C
	Temperature -	Driver Board 3	Driver Board 3= XX°C
		Pan and Tilt	Pan and Tilt= XX℃
		Head Sensor	Head Sensor= XX°C
		Display Board	Display Board= X.X.X
		Driver Board 1	Driver Board 1= X.X.X
Information	Software Version	Driver Board 2	Driver Board 2= X.X.X
		Driver Board 3	Driver Board 3= X.X.X
		Pan and Tilt	Pan and Tilt= X.X.X
	View DMX Values	DMX Channel 1=XXX	
	Electronic SN	Electronic SN= ************************************	
	RDM Device Label	RDM Device Label	
	Pan Encoder	Wiring Normal Pan Err 0 Count 0	
	Tilt Encoder	Wiring Normal Tilt Err 0 Count 0	
	Driver Faults	X Over Temp 0 Y Over Temp 0 X Fault 0 Y Fault 0	
	Factory Setup	Factory Setup OFF	
Test Modes	. 3015.) 2010	Factory Setup ON	
	Self Test -	Self Test OFF Self Test	
Lamp Manual Control	Lamp Status	ON On Command Sent S= X C= X Lamp On	
Lamp Manual Control	Turn Lamp On	Lamp On	

		Т	urn Lamp Off					
Wireless Options		Wireless Mode			Wireless Mode XLR First Wireless Mode Wireless only Wireless Mode XLR Only Wireless Mode Wireless To XLI Wireless First	; ; ; ;		
			n-Link Wireless		Really Un-Link Enter=Yes			
	Operation DMX O							
			Select Memory User Memory 1					
			Select Memory User Memory 2					
	Operation Master	n Mode= Mode	Select Memory Preset Memory 1					
			Select Memory Preset Memory 2					
Operation Mode			Select Memory Preset Memory 3					
	Operation Mode= Slave Mode		Select Memory User Memory 1 Select Memory User Memory 2					
			Select Memory Preset Memory 1 Select Memory					
			Preset Memory 2 Select Memory Preset Memory 3					
	Mod Static	de= Scene						
		<u> </u>				Shutter		Shutter XXX
						Dimmer		Dimmer XXX Dimmer Low
						Dimmer		XXX CYM Macros
						CYM Ma	acros	XXX
						Yellow		XXX Yellow
User Memories	Edit User	Memory	User Memory 1	Scene	XXX	Magenta		XXX Magenta
		,	,			Colour		XXX Colour XXX
						Iris		Iris XXX
						Iris Mac	ro	Iris Macro XXX
						Fixed Gol	00	Fixed Gobo XXX
						R Gobo V	Vheel	R Gobo Wheel XXX
						R Gobo R	Rotate	R Gobo Rotate XXX

			R Gobo Rotate L	R Gobo Rotate L XXX
			R prism In out	R prism In out XXX
			R Prism Rotate	R Prism Wheel XXX
			Frost	Frost XXX
			Focus	Focus XXX
			Zoom	Zoom XXX
			Pan Coarse	Pan Coarse XXX
			Pan Fine	Pan Fine XXX
			Tilt Coarse	Tilt Coarse XXX
			Tilt Fine	Tilt Fine XXX
			M-Speed	M-Speed XXX (000~255)
			Delay	Delay XX Seconds (0.25s~100min)
			Link To Step	Link To Step XXX(1~200)
			Shutter	Shutter XXX
			Dimmer	Dimmer XXX
			Dimmer Low	Dimmer Low XXX
			CYM Macros	CYM Macros XXX
			Cyan	Cyan XXX
			Yellow	Yellow XXX
			Magenta	Magenta XXX
			Colour	Colour XXX
			Iris	Iris XXX
			Fixed Gobo	Fixed Gobo XXX
	User Memory 2	Scene XXX	R Gobo Wheel	R Gobo Wheel XXX
	,		R Gobo Rotate	R Gobo Rotate XXX
			R Prism Wheel	R Prism Wheel XXX
			R Prism Rotate	R Prism Wheel XXX
			Focus	Focus XXX
			Zoom	Zoom XXX
			Pan Coarse	Pan Coarse XXX
			Pan Fine	Pan Fine XXX
			Tilt Coarse	Tilt Coarse XXX
			Tilt Fine	Tilt Fine XXX
			M-Speed	M-Speed XXX
			оросси	(000~255)

	T	1	1	I Dalai
			Delay	Delay XX Seconds (0.25s~100min)
			Link To Step	Link To Step XXX(1~200)
		Shutter	Shutter XXX	
		Dimmer	Dimmer XXX	
		Dimmer Low	Dimmer Low XXX	
		CYM Macros	CYM Macros XXX	
		Cyan	Cyan XXX	
		Yellow	Yellow XXX	
		Magenta	Magenta XXX	
		Colour	Colour XXX	
		Iris	Iris XXX	
		Iris Macro	Iris Macro XXX	
	Static Scene	Fixed Gobo	Fixed Gobo XXX	
		R Gobo Wheel	R Gobo Wheel XXX	
		R Gobo Rotate	R Gobo Rotate XXX	
		R Gobo Rotate L	R Gobo Rotate L XXX	
		R Prism Wheel	R Prism Wheel XXX	
		R Prism Rotate	R Prism Wheel	
		Focus	Focus XXX	
		Zoom	Zoom XXX	
		Pan Coarse	Pan Coarse XXX	
		Pan Fine	Pan Fine XXX	
		Tilt Coarse	Tilt Coarse XXX	
		Tilt Fine	Tilt Fine XXX	
		M-Speed	M-Speed XXX (000~255)	
	Reset User Memory 1	Reset User 1 ? <unlock> 2 3 & (UP/DOWN/ENTER)</unlock>	Memory 1 Has Been Reset	
Init User Memory	Reset User Memory 2	Reset User 2? <unlock> 2 3 & 4 (UP/DOWN/ENTER)</unlock>	Memory 2 Has Been Reset	
	Reset Static Scene	Reset Static Scn <unlock> 2 3 & 4 (UP/DOWN/ENTER)</unlock>	Static Scene Has Been Reset	

ERROR MESSAGES

In the course of launch, Projector examines automatically whether there are errors and if there are, it will display information as follows:

Sensor Err S1-M1	Color wheel (1# drive board motor 1) error
Sensor Err S1-M2	CYM-Cyan (1# drive board motor 2) error
Sensor Err S1-M3	CYM-yellow (1# drive board motor 3) error
Sensor Err S1-M4	CYM-Magenta (1# drive board motor 4) error
Sensor Err S2-M1	Rotating Gobo wheel (2# drive board motor 1) error
Sensor Err S2-M2	Gobo rotation (2# drive board motor 2) error
Sensor Err S2-M3	Fixed Gobo Wheel (2 drive board motor 3) error
Sensor Err S3-M1	Focus (3# drive board motor 1) error
Sensor Err S3-M2	Zoom1 (3# drive board motor 2) error
Sensor Err S3-M4	Prism (3# drive board motor 4) error
Over Temp Error	
Temp Sense Error	
Head Fan 1 Fail	Lamp Fan error
Head Fan 2 Fail	Head Fan1 error
Head Fan 3 Fail	Head Fan2 error
Head Fan 4 Fail	CYM Fan error
Head Fan 5 Fail	Fixed gobo wheel fan error
Pan Encoder Err	
Tilt Encoder Err	
Pan Enc T Out	Pan Auto-Position Overtime
Tilt Enc T Out	Tilt Auto-Position Overtime
Pan Sensor Error	
Tilt Sensor Error	
Pan Over Temp	
Pan Driver Fault	
Tilt Over Temp	
Tilt Driver Fault	
Pan Enc Rev Err	Pan Encoder Reverse Wiring Error
Tilt Enc Rev Err	Tilt Encoder Reverse Wiring Error
· · · · · · · · · · · · · · · · · · ·	

REPLACING GOBOS

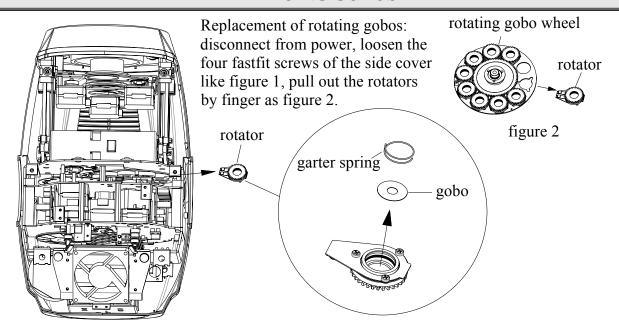


figure 1

DMX PROTOCOL

Short mode	Standard mode	Extended Mode	FUNCTION	DMX	DESCRIPTION
				000-010	Close
				011-025	Open
				026-225	Strobe speed from slow to fast
1	1	1	Strobe	226-239	Macro 1
				240-241	Macro 2
				242-246	Macro 3
				247-255	Open
2	2	2	Dimmor	000-003	Close
			Dimmer	004-255	Linear dimming (0-100%)
	3	3	Dimmer Fine	000-255	Dimming in 16 bit
				000-016	White
				017-035	Yellow+ Magenta=Red
				036-054	Yellow
3	4	4	CYM Macro	055-073	Yellow +Cyan=Green
3	4	4	CTIVINACIO	074-092	Cyan
				093-110	Cyan + Magenta= Violet
				111-128	Magenta
				129-255	CYM color mixing from slow to fast
4	5	5	Cyan fine	000-255	Cyan (linear 0~100%)
		6	Cyan in 16 Bit	000-255	Cyan in 16 Bit
5	6	7	Yellow	000-255	Yellow (linear 0~100%)
		8	Yellow fine	000-255	Yellow in 16 Bit
6	7	9	Magenta	000-255	Magenta (linear 0~100%)
		10	Magenta fine	000-255	Magenta in 16 Bit

		1	<u> </u>	000,000	188.4
				800-000	White
				009-016	Color 1
				017-024	Color 2
				025-032	Color 3
				033-040	Color 4
				041-048	Color5
				049-056	Color6
				057-064	Color7
7	8	11	Color Wheel	065-073	Color8
				074-082	Color9
				083-091	Color10
				092-100	Color11
				101-109	Color12
				110-118	Color13
				119-128	сто
				129-191	Rotation(Clockwise from slow to fast)
				192-255	Reverse rotation (Anti-clockwise from slow to fast)
8	9	12	Iris	000-255	From big to small in size
		13	Iris Fine	000-255	Iris in 16 Bit
				000-010	White
				011-072	Iris Effect 1
				073-136	Iris Effect 2
				137-198	Iris Effect 3
9	10	14	Iris Macro	199-214	Iris Effect 4
				215-222	Iris Effect 5
				223-230	Iris Effect 6
				231-255	Fully Open
40	44	45	Fixed Gobo	000-007	White
10	11	15	Wheel	008-014	Gobo 1
				015-021	Gobo 2
				022-028	Gobo 3
				029-035	Gobo 4
				036-042	Gobo 5
				043-049	Gobo 6
				050-056	Gobo 7
				57-63	Gobo 8
				64-70	Gobo 9
				71-77	Gobo 10
				78-84	Gobo 11
				85-92	Gobo 12
				93-99	Gobo 13
				100-106	Gobo 14
				107-113	Gobo 15
<u> </u>		1	<u> </u>	1	

				114-120	Gobo 16
				121-127	Gobo 17
				128-146	Rotation (clockwise from slow to fast)
				147-165	Reverse Rotation (anti-clockwise from slow to fast)
				166-170	Shake of Gobo 1
				171-175	Shake of Gobo 2
				176-180	Shake of Gobo 3
				181-185	Shake of Gobo 4
				186-190	Shake of Gobo 5
				191-195	Shake of Gobo 6
				196-200	Shake of Gobo 7
				201-205	Shake of Gobo 8
				206-210	Shake of Gobo9
				211-215	Shake of Gobo 10
				216-220	Shake of Gobo 11
				221-225	Shake of Gobo 12
				226-230	Shake of Gobo 13
				231-240	Shake of Gobo 14
				241-245	Shake of Gobo 15
				246-250	Shake of Gobo 16
				251-255	Shake of Gobo 17
				000-012	White
				013-025	Gobo 1
			Datation Cabo	026-037	Gobo 2
11	12		Rotating Gobo Wheel	038-050	Gobo 3
		16		051-062	Gobo 4
				063-075	Gobo 5
				076-088	Gobo 6
				089-101	Gobo 7
				102-114	Gobo 8
				115-127	Gobo 9
				128-155	Rotation (Clockwise From slow to Fast)
				156-183	Reverse rotation(Anti-clockwise from slow to fast)
				184-191	Shake of Gobo 1
				192-199	Shake of Gobo 2
				200-207	Shake of Gobo 3
				208-215	Shake of Gobo 4
				216-223	Shake of Gobo 5
				224-231	Shake of Gobo 6
				232-239	Shake of Gobo 7
				240-247	Shake of Gobo 8
				248-255	Shake of Gobo 9

	40	47	Gobo Rotation	000-128	Gobo Indexing (0°-540°)
12				129-188	Rotation (Clockwise From slow to Fast)
12	13	17	GODO ROIAIION	189-195	Stop
				196-255	Reverse rotation (Anti-Clockwise from slow to fast)
	14	18	Gobo Rotation Fine	0-255	Gobo Rotation in 16 Bit
13	15	19	Prism	000-016	White
13				017-255	Three-Facet Prism
				000-128	Prism Indexing
				129-191	Rotation(Clockwise from slow to fast)
14	16	20	Prism Rotation	192	Stop
				193-255	Rotation(Anti- Clockwise from slow to fast)
15	17	21	Frost Filter	000-255	Linear Frost
16	18	22	Focus	000-255	Linear Focusing
		23	Focus Fine	000-255	Focusing in 16 bit precision
17	19	24	Zoom	006-255	Linear Zooming
		25	Zoom Fine	000-255	Linear Zooming in 16 bit precision
18	20	26	Pan	000-255	Pan(0°~540°)
	21	27	Pan Fine	000-255	Pan in 16 bit precision
19	22	28	Tilt	000-255	Tilt(0°~270°)
	23	29	Tilt Fine	000-255	Tilt in 16 bit precision
	24	30	Pan & Tilt Speeds	000-255	Pan & Tilt Speed from Fast to Slow
	25	31	Control	000-047	Reserved
				048-080	Reset
				081-112	Reserved
20				113-144	Lamp Off (Delay for 3 s)
20				145-168	Reserved
				169-200	Lamp Half Power
				201-223	Reserved
				224-255	Lamp Full Power

Prism is prior to Frost Filter.

LED INDICATION EXPLANATIONS

	on	DMX signal OK	
Green LED Indication	off	NO DMX signal	
	flash	DMX signal error	
Yellow LED indication	on	Menu configuration	
Blue LED indication	on	Power on	
Red/Green LED indication	Red	Slave Mode/Self Mode running	

MAINTENANCE

If the projector's lens becomes damaged or broken it should be replaced. If the lamp becomes damaged or deformed in any way it must be replaced. If the light from the lamp appears dim this would normally indicate that it is reaching the end of its life and it should be changed at once, aged lamps run to the extremity of their life might explode. If the projector does not function, check the fuses on the power socket of the projector, they should only be replaced by fuses of the same specification. The projector has overheat protection device that will switch off the projector in case of overheating. Should it happen, check if the fans are blocked or not, or if they are dirty, clean them before switching on the projector again.

Any maintenance work should only be carried out by qualified technicians.

LUBRICATION

To ensure the smooth rotation of the rotating gobos and movement of the lens for focusing, it is recommended that the bearings for the rotating gobos and the 2 sliding tracks for the focusing lens holder be lubricated every two months. Use only high quality, high-temperature grease.

KEEPING THE PROJECTOR CLEAN

To ensure the reliability of the projector it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output. **Do NOT use any type of solvent containing chemical elements on dichroic colour filters.**

Cleaning frequency depends on the environment in which the fixture operates. A soft cloth and typical glass cleaning products should be used in cleaning. It is recommended to clean the external optics at least once every 20 days and clean the internal optics at least once every 30 / 60 days.

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

TROUBLESHOOTING

PROBLEM	ACTION			
The projector decep't quitch on	Check the fuse on the power socket.			
The projector doesn't switch on	Check the lamp.			
The lamp is on but the projector doesn't respond	Make sure that the fixture's start address is right			
to the controller	Replace or repair the XLR signal cable.			
The projector functions intermittently	Make sure the fan is working well or fans and their shields are not blocked			
Doom annoons dim I over in brightness	Make sure the lamp is within its lifespan			
Beam appears dim, Low in brightness	Remove dust or grease from the lenses.			
The project image appears to have a halo	Carefully clean the lamp, optical lenses and other components.			
Haavily Defeative Deem	➤ Check if lens are in good condition(not cracked)			
Heavily Defective Beam	Clean dust or grease on the lens.			

TECHNICAL DATA

VOLTAGES:

100V~240VAC, 50/60Hz

POWER CONSUMPTION:

450W@220V

LAMP:

OSRAM SIRIUS HRI 330W XL

Colour Temperature 7500K

Manufacturers Rated Lamp Life 1500hours

COLOURS:

CMY linear color mixing system with Marco

1 Color Wheel with 14colors plus white

With variable speed bi-directional rainbow effect

Optional Stepping/linear color changing

FIXED GOBO WHEEL:

1 Fixed gobo wheel: 17gobos+ White

Shake and Bi-directional wheel scroll at variable speeds

ROTATING GOBO WHEEL:

1 Rotating Gobo Wheel: 9gobos +White

Shake and Bi-directional wheel scroll at variable speeds, Rotating Gobo Replaceable

Rotating Gobo replaceable, gobo size: 14.8mm, image size: 8mm

IRIS

Macro Function

PRISM:

1pc,3-facet rotating Prism(bi-directional with variable speeds)

FROST:

1pc frost filter

FOCUS:

DMX linear Focusing

ZOOM:

DMX linear Zooming

SHUTTER/DIMMER:

Double shutter blades, 0.3~25 F.P.S ,0-100% linearly adjustable

:

HEAD MOVEMENT:

Pan 540°, Tilt 270° with auto position correction

BEAM ANGLE:

Zoom: 3.8°-42°, linearly adjustable

CONTROL:

DMX512, 3 pin and 5 pin interfaces

20channels in short mode, 25channels in standard mode and, 31 channels in extended mode Self-test mode

OTHER FUNCTIONS:

Adjustable Pan & Tilt speed

Use time display for the projector and the lamp respectively

Modular Structure for easy maintenance

Optional DMX512 Wireless Transmitter

Optional Wireless Transmitter

HOUSING:

High temperature Engineering plastic, IP20

Optional Electric Power driven water proof cover, water proof system control by DMX with IP44

NET WEIGHT:

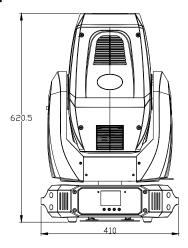
22Kg

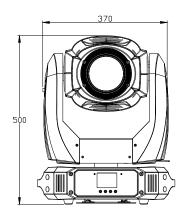
GORSS WEIGHT(in Flight Case):

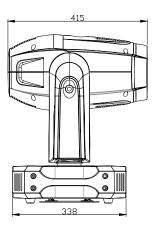
76 Kg in Flight Case(2pcs/flight case) with accessories supplied

31 Kg in Carton(1pcs/carton) with accessories supplied

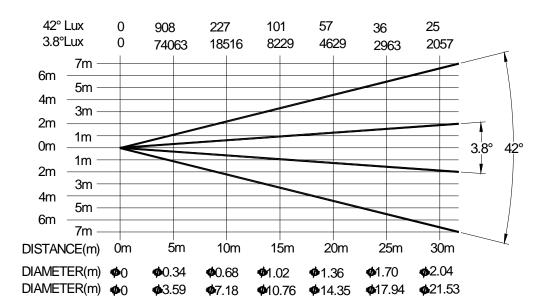
SIZES:



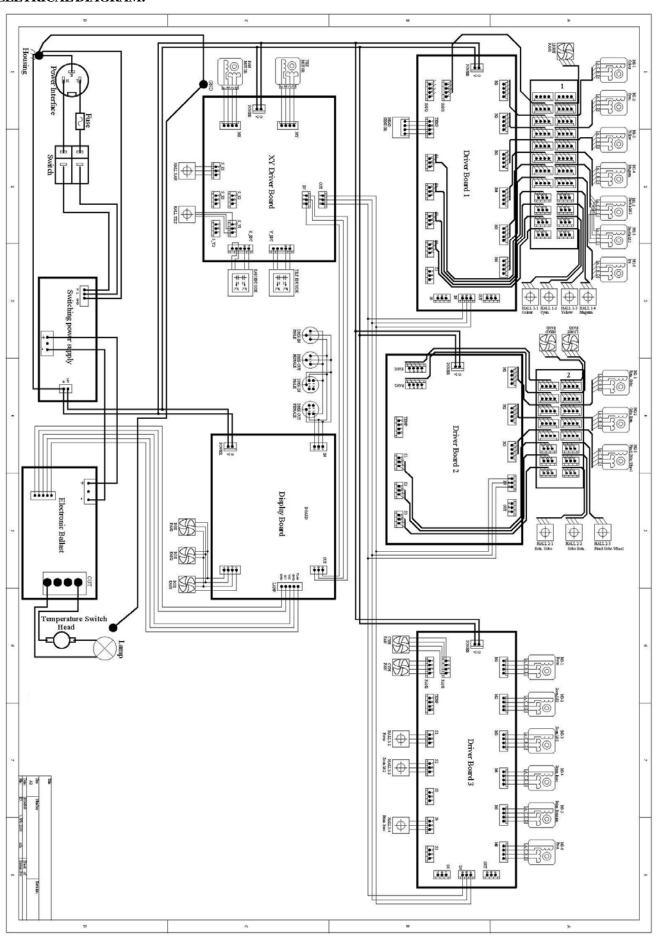




LIGHT OUTPUT:



ELETRICAL DIAGRAM:



Component Order Codes

NAME	PART NO.	QUANTITY	REMARK
Pan Motor	030040233	1	
Tilt Motor	030040233	1	
Dimmer/Strobe Motor	030040213	2	
CYM Motor	030040228	3	
Rotating Gobo Wheel Motor	030040231	1	
Fixed Gobo Wheel Motor	030040221	1	
Color Wheel Motor	030040221	1	
Iris Motor	030040230	1	
Rotator Motor	030040221	1	
FOCUS MOTOR	030040232	1	
FROST MOTOR	030040221	1	
ZOOM MOTOR	030040215	2	
Prism Rotation Motor	030040224	1	
Prism Move-in Motor	030040221	1	
Fan	030060095	4	At Rear side of the lamp 2 Base 2
Turbo- Fan	030060064	1	Lamp Cooling
Fan	030060088	2	In the middle of Head
fan	030060089	2	Base
Lamp Ballast	040070115	1	
Lamp	100070031	1	
Rotating Gobo Wheel Accessory	120110615	1	
Color Wheel Accessory	120110609	1	
Fixed Gobo Wheel Accessory	120110616	1	
Power Switch	192010171	1	
LCD Master Board	230020678A	1	
6 channel driver board1	230020680A	1	
6 channel driver board2	230060301	1	
6 channel driver board3	230020682A	1	
XY Driver Board	230060274	1	
Fuse	270041079	1	
Tilt Belt	290151387A	1	
Zooming Belt	290151383	2	
CYM Belt	290151382	3	
Prism Wheel Move-in Belt	290151384	1	
Gobo Rotation belt	290151260	1	
Pan Belt	290151392	1	
Prism Wheel Rotation Belt	290151385	1	
Focusing Belt	290151383	2	

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Version: 20140926 (Preliminary)