

AQUA 380 BEAM PR-2369

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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ACCESSORIES

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

Name	Quantity	Unit	Remark
G clamp	2	Pcs	
XLR connector	1	Set	Male and female
Safety cord	1	Pc	
This manual	1	Pc	
Ω clamp	2	Pcs	Optional

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 changes are not subject to further 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.

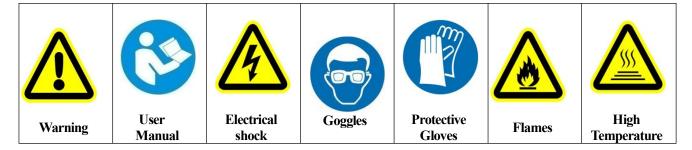
1. SAFETYAND WARNINGS



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 and outdoor use, IP66.
- It can be used in humid and dusty areas. And it can contact water and other non-corrosive liquids.
- •The projector should be kept away from high temperature, fire, electrical surge, vibration and strong light while being operated
- •The projector is only intended for installation, operation and maintenance by qualified personnel. And the operation must strictly follow the procedures in the manual
- •No repairable parts in the projector and do not open covers for maintenance by yourself.



- •Don't look straightly into the light sources especially for epileptics, otherwise eyes will be burned.
- •Do not connect this device to any type of dimmer pack
- •If there are visible damages on the lamp, lens and protective cover for the screen, i.e., to the extent which affects its performance like cracking or deformation, please stop using it and contact the manufacture for their replacement with original parts, otherwise its performance will be compromised



- •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
- •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.



- While a lighting fixture works properly under normal ambient temperature, the maximum temperature of the external surface of the control device(The integrated control device means the external surface of the housing of the lighting fixtures electric chamber) allowed is 80 Celsius degrees.
- •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.
- Don't touch the covers of the working projector(They are very hot!)



- •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 18m.
- •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.

2. INSTRUCTIONS

•CLEANING AND MAINTENANCE

The projector's protective devices should be periodically checked. For example, check if the fuse is blown or not. If true, replace it with a new fuse with same rating. Please be advised they be of same rating.

Please periodically check the cooling devices with the projector having protective unit for over-temperature (If over-temperature occurs, the protective unit will trigger power-off automatically). The cooling devices include cooling fan, heat sink and other cooling components. Please check if the fan runs normally and the fan and the air-inlet and outlet are blocked by dust. Please ensure that the air inlet and outlet are clean and clear. The cooling fan must be cleaned once every 15 days.

For those projector with optical lens, reflector and coated Color filters, it is necessary to make it clean for reliable operation because of easy accumulation of smoke, oil and dust on the lens, thus decreasing the light output. Then internal optical lens, flat glass, reflector and coated Color filters must be periodically cleaned for optimal light output.

For the projector with some IP rating, unless approved by professional service people and internal parts requiring to be replaced, it's prohibited to dismantle it. For this type of projector, if without any fan, please keep it clean; if yes, please refer the above mentioned method for cleaning.

The cleaning intervals depend on how often it's used and its running environment. Use soft clothing and normal glass detergent for cleaning. It's advised the external optical system be cleaned once every 20days, internal optical system once every 30/60 days at least. For the projector with higher IP rating, if there is no damage inside, just clean the projector's surface in principle. Keep the lens clean and don't touch the optical parts with bare hands.

Special note:

It's normal phenomena that there will be mild water mist on the lens while the waterproof product is in use.



- •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.

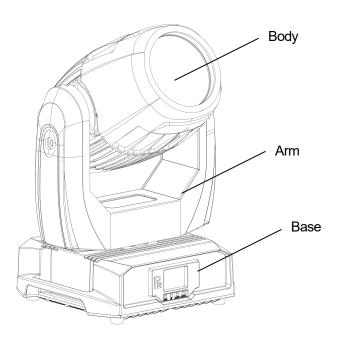
.LUBRICATION

To ensure smooth movement of gobos and focus lens, it's advised rotators' bearings and 2 sliding bars for focus lens be lubricated every 2 months. High quality and high temperature lubricant/grease is advised..

.TROUBLESHOOTING

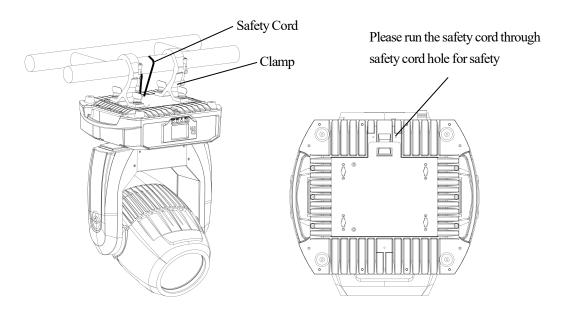
PROBLEM	ACTION		
The munication decom't switch on	Check the fuse on the power socket.		
The projector doesn't switch on	Check the lamp.		
The lamp is on but the projector doesn't respond	➤ Make sure that the fixture's start address is right		
to the controller	Replace or repair the XLR signal cable.		
The projector functions intermittently	Make sure the fan is working well or fans and their shields are not blocked		
D	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.		
Hamila Dafadina Dama	Check if lens are in good condition(not cracked)		
Heavily Defective Beam	Clean dust or grease on the lens.		

3. APPEARANCE



4. INSTALLATION

•RIGGING



Take 2 clamps and 1 safety cords out from the package and mount 2 clamps on the underside of fixture with 4 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) 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 is secure and is strong enough to support the weight of the fixture.



WARNING:

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

• POWER CONNECTION

Connect the power cord as follows:

L(live)=brown

E (earth) = yellow/green

N (neutral) = blue

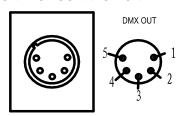
Before power connection, please ensure the power supplied must match what the nameplate says. It is recommended that each projector be connected with power separately so that they may be individually switched on and off.

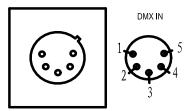
Note: If projectors are connected in series, please connect POWERIN port of the 1^{st} projector with the Power Mains, then connect its POWER OUT with POWER IN of the 2^{nd} projector, and so on till all fixtures are connected. If the voltage supplied is 200V-240V, the maximum projectors connected is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

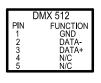


- •The earth wire(yellow/green) must be connected to the ground. And electrical connection must be in accordance with the standards concerned.
- If any questions about the electrical installation, do not continue but consult a qualified electrician.

•DMX CONTROL CONNECTION



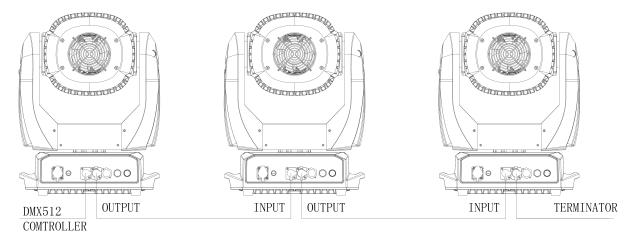




Connection between controller and projector and between one projector and another must be made with a twin-screened cable, with each wire having at least a 0.5mm in diameter. Connection to and from the projector is via cannon 5 pin (which are included with the projector) or 5 pin XLR plugs and sockets.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

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

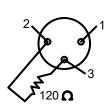
Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.



.DMX TERMINATOR

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

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



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.



•ALIGNMENT/INSTALLATION/REPLACEMENT OF A LAMP

Lock the yoke before fitting/replacing the lamp.

Just as Shown by Figure 1, after Opening the airflow cover as shown by loosening 4 tightening screws, the structure like figure 2 will be seen.

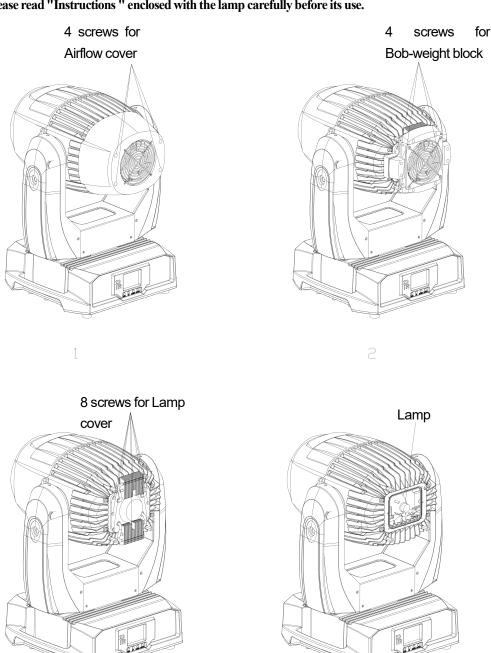
Just as shown by the figure 2, loosen the 4 tightening screws of the bob-weight block, take it down and the structure like figure 3 will be seen.

Just as shown by figure 3, loosen the 8 tightening screws of lamp cover, open the cover and structure like the figure 4 will be seen. Unplug the lamp with power wires, hold the bottom of the lamp by hand and move it as directed by the arrow using force to make the other end of the lamp off the holder. At last take the lamp out of the bottom of the head. Before placing a new lamp inside, plug the lamp with power wires tightly. Lamp placement and its removal are in opposite orders

Note: 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.

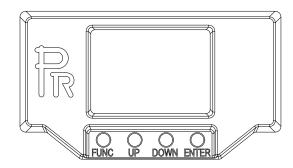
Put back the lamp cover, bob-weight block, airflow cover and tighten all screws.

Important: Please read "Instructions" enclosed with the lamp carefully before its use.



5. SETUPAND CONFIGURATION

•Front Panel Operation



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

Launch the projector and press button ENTER for more than 3 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.

• 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 short mode ,standard mode and extended mode. For example standard mode has 20 channels, so set the No. 1 projector's address 001, No. 2 projector's address 021, No. 3 projector's address 041, No. 4 projector's address 061, and so on.

Launch the projector. Press button ENTER more than 3 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

•DMX WIRELESS CONTROL

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

The setup of it is below:

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

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

•STAND-ALONE MODE

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

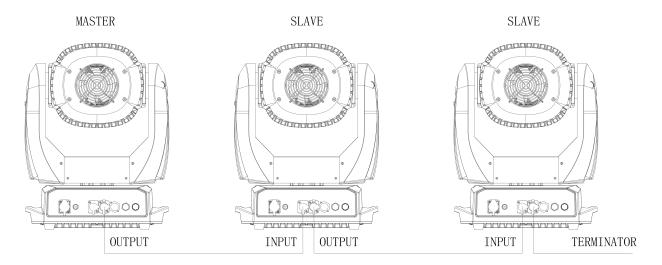
DMX address can be set at any number within 512.

•MASTER/SLAVE MODE

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

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

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



6. OPERATION MENU

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL	5th LEVEL
Address	DMX Address	1-497 (Short Mode) 1-493 (Standard Mode) 1-492 (Extended Mode)		
	IP 地址	Default IP Address		
	IP Address	Custom IPAddress		
	SubNet Mask	X.X.X.X		
	ArtNet Universe	0-255		
	sACN Universe	1-63999		
Reset	Total Reset	Really Reset? Confirm or Cancel		
5	Pan&Tilt Reset	Really Reset? Confirm or Cancel		
	Colour System Reset	Really Reset? Confirm or Cancel		

	Gobo Reset	Really Reset? Confirm or Cancel		
	Dimmer/Strobe reset	Really Reset? Confirm or Cancel		
	Fo. Ef. Pr. Reset	Really Reset? Confirm or Cancel		
		Short Mode 16CH		
	DMX Channel Mode	Standard Mode 20CH		
	DIVIA Chamiei Wode	Extended Mode 21CH		
		View Selected Mode	Ch.01 Dimmer Ch.02 Strobe Ch XX Control Function	
		Lamp Control	OFF/ON	
		On By Power On	OFF/ON	
	Lamp Control	Control By DMX	OFF/ON	
		ECO Power	OFF/ON	
Config Settings	Signal Select (Only for the projectors with wireless receiver assembly)	XLR Only		
		XLR First		
		Wireless Only		
		Wireless First		
		Wireless In/XLR Out		
		ArtNet Only		
		ArtNet In/XLR Out		
		sACN Only		
		sACN In/XLR Out		
	Loss of DMX	Normal time out		
	LOSS OI DIVIA	Hold Last Value		
	Display Config	D: 1 M 1	Off After Delay	
		Display Mode	On Always	

			Invert OFF	
		Display Invert	Invert ON	
			Invert Auto	
		Language Setting	English\Chinese	
	Townson Livit	Celsius Degree		
	Temperature Unit	Fahrenheit Degree		
	Un-Link Wireless (Only for the projectors with wireless receiver assembly)	Really Un-Link? Confirm or Cancel		
	Factory defaults	Restore Defaults? Confirm or Cancel		
Option		Pan DMX Invert	OFF/ON	
Settings		Tilt DMX Invert	OFF/ON	
	Pan/Tilt Settings	Pan Tilt Swap	OFF/ON	
		XYFeedback	OFF/ON	
		Pan/Tilt mode	Speed/Time	Note: "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.
	Invert Settings	Dimmer Invert	OFF/ON	
Information	View DMX Values	Channel Value Strobe XXX Dimmer XXX Dimmer Fine XXX Color Wheel XXX Color Wheel Fine XXX Fixed Gobo Wheel XXX Rot. Gobo Wheel XXX Rot. Gobol Rotation XXX Rot. Gobol Rotation Fine XXX Effect Wheel XXX Effect Wheel XXX Fism XXX Prism XXX Prism Rotation XXX Prism Rotation XXX Focus XXX Pan XXX Pan Fine XXX Tilt XXX Tilt Tine XXX		

	Г		T
		Pan/Tilt Speed& Time	
		XXX.	
		Power/Special Fun XXX	
	Lamp Hours	Lamp Hours=XXX H	
	Lamp Hours	Reset Lamp Hours	
	Total Hours	Total Hour $= \times \times \times H$	
		Display Board=×××C	
		Pan Board=×××C	
		Tilt Board=×××C	
	Temperature	Driver Board1=×××C	
		Driver Board 2=×××C	
		Head sensor=XXXX	
		PCB Sys Boot	
		Display Board xxx xxx	
		Pan Board xxx xxx	
	Software Version	Tilt Board xxx xxx	
		Driver Board1 xxx xxx	
		Driver Board 2 xxx xxx	
		Dilver Board 2 AAA AAA	
	Electronic SN	XXXXXX	
	RDM Device Label	AQUA 380 BEAM	
	E	ANSI E1.20 RDM	
		Fan Speed Status	
	Fan Status	Lamp Fan xxx on/off	
	Tan Status	Color Fan xxx on/off	
		Head Fan xxx on/off	
		X Axis: XXX	
	Acceleration Sensor	Y Axis: XXX	
	1 100 Dictation Donbor	Z Axis: XXX	
		Posion: XXX XXX	
		Fan Error Count	
	Lamp fan Error	Lamp Fan XXX	
	Zamp Iam Entor	Color Fan XXX	
		Head Fan XXX	
		Channel Value	
		Strobe XXX Dimmer XXX	
		Dimmer Fine XXX	
	Manual Effect Control	Color Wheel XXX	
	IVIANUAL ELECT CONTOL	Color Wheel Fine XXX	
		Fixed Gobo Wheel XXX Rot. Gobo Wheel 1 XXX	
		Rot. Gobol Rotation XXX	
		Rot. Gobol Rotation Fine	
		XXX	
Service		Effect Wheel XXX	
		Effect Wheel Rotation XXX Prism XXX	
Q ₀		Prism Rotation XXX	
12		Focus XXX	
0/		Focus Fine XXX	
		Pan XXX	
		Pan Fine XXX Tilt XXX	
		Tilt Fine XXX	
		Pan/Tilt Speed& Time	
		XXX.	
	I		1

			T		T
	Factory mode	XXX			
	DMX Mode	Change Operation Mode? Confirm or Cancel			
		Preset Memory	Change Operation Confirm or Ca		
Operation	Master Mode	User Memory 1	Change Operation Confirm or Ca		
Mode		User Memory 2	Change Operation Confirm or Ca		
	Stand-Alone Mode	Preset Memory	Change Operation Confirm or Ca	n Mode? ancel	
		User Memory 1	Change Operation Mode? Confirm or Cancel		
		User Memory 2	Change Operation Mode? Confirm or Cancel		
	Static Scene	Change Operation Mode? Confirm or Cancel			
User Memories	Edit User Memory	Edit User Memory 1 / Edit User Memory 2	Scene (1~200)	Paste? Confirm Cancel	Channel Value Strobe XXX Dimmer XXX Dimmer XXX Dimmer Fine XXX Color Wheel XXX Color Wheel Fine XXX Fixed Gobo Wheel XXX Rot. Gobo Wheel XXX Rot. Gobol Rotation XXX Rot. Gobol Rotation Fine XXX Effect Wheel XXX Effect Wheel Rotation XXX Prism XXX Prism XXX Prism Rotation XXX Focus XXX Pan XXX Pan Fine XXX Tilt XXX Tilt Fine XXX Tilt Fine XXX Fade Time XXX Hold Time XXX Delay Time XXX Link To Step XXX

	Edit Static Scene	Paste ? Confirm Cancel	Channel Value Strobe XXX Dimmer XXX Dimmer Fine XXX Color Wheel XXX Color Wheel Fine XXX Fixed Gobo Wheel XXX Rot. Gobo Wheel XXX Rot. Gobo Rotation XXX Rot. Gobol Rotation Fine XXX Effect Wheel Rotation XXX Effect Wheel Rotation XXX Prism XXX Prism XXX Prism Rotation XXX Focus XXX Focus XXX Pan XXX Pan Fine XXX Tilt XXX Tilt Tine XXX Pan/Tilt Speed& Time XXX
	Reset User Memory 1	Reset User Memory? Confirm or Cancel	
Init User Memory	Reset User Memory 2	Reset User Memory? Confirm or Cancel	
	Reset Static Scene	Reset Static Scene? Confirm or Cancel	

Remark:

- 1. In the synchronous control of multiple projectors parameters can be transmitted from the master including: DMX mode, display setting, operation mode(user memory);
- 2. all projectors Accepting parameters will automatically be set to slave mode.

7. DMX PROTOCOL

Short mode	Standard mode	Extended Mode	FUNCTION	DMX	DESCRIPTION
				000-010	Close
				011-025	Open
1	1	1	Strobe	026-225	Strobe speed from slow to fast
				226-246	Random strobe from slow to fast
				247-255	Open
	2	2	D.	000-010	Close
2	2	2	Dimmer	011-255	Linear dimming (0-100%)
	3	3	Dimmer Fine	000-255	Dimmer in 16 bit
			Color Wheel	000-063	Indexing(0-360degrees)
			Color Wheel	064-073	White
3	4	4		074-075	White/Color1
				076-077	Color1
				078-079	Color1/Color2

				000 001	G 1 2
				080-081	Color2
				082-083	Color2/Color3
				084-085	Color3
				086-087	Color3/Color4
				088-089	Color4
				090-091	Color4/Color5
				092-093	Color5
				094-095	Color5/Color6
				096-097	Color6
				098-099	Color6/Color7
				100-101	Color7
				102-103	Color7/Color8
				104-105	Color8
				106-107	Color8/Color9
				108-109	Color9
				110-111	Color9/Color10
				112-113	Color10
				114-115	Color10/Color11
				116-117	Color11
				118-119	Color11/Color12
				120-121	Color12
				122-123	Color12/Diffuser
				124-125	Diffuser
				126-127	Diffuser/white
				128-191	Rotation ,Clockwise from slow to fast
				192-255	Rotation ,Anti-Clockwise from slow to fast
	5	5	Color wheel Fine	0-255	Color Wheel in 16 Bit
				000-008	White
				009-015	Gobo1
				016-022	Gobo2
				023-029	Gobo3
				030-036	Gobo4
				037-043	Gobo5
			Fixed Gobo	044-050	Gobo6
			Wheel	051-057	Gobo7
4	6	6		058-064	Gobo8
		065-071	Gobo9		
		072-078	Gobo10		
		079-085	Gobo11		
			086-092	Gobo12	
				093-099	Gobo13
				100-106	Gobo14
				107-113	Gobo15
			16	10/-113	G00013

114-	120 Gobo16
121-	
128-	
160-	
192-	
192-	
200-2	
200-2	
204-2	
212-2	
216-2	
220-2	
224-2	
228-2	
232-2	
236-2	
240-2	
244-2	
248-2	
252-7	
000-0	
008-0	017 Gobo 1
018-0	
028-0	037 Gobo 3
038-0	047 Gobo 4
048-0	057 Gobo 5
Rotating Gobo 058-0	067 Gobo 6
Wheel 068-0	077 Gobo 7
078-0	087 Gobo 8
088-0	097 Gobo 9
5 7 7 098-1	107 Gobo 10
108-	117 Gobo 11
118-1	127 Gobo 12
128-	143 Rotation (clockwise From slow to Fast)
144-1	Reverse Rotation (anti-clockwise From slow to Fast)
160-	167 Shake of Gobo 1 from slow to fast
168-	175 Shake of Gobo 2 from slow to fast
176-1	183 Shake of Gobo 3 from slow to fast
184-	191 Shake of Gobo 4 from slow to fast
192-1	199 Shake of Gobo 5 from slow to fast
200-2	207 Shake of Gobo 6 from slow to fast

				216 222	Shalra of Caha 9 for an along to		
				216-223	Shake of Gobo 8 from slow to fast		
				224-231	Shake of Gobo 9 from slow to fast		
			232-239	Shake of Gobo 10 from slow to fast			
				240-247	Shake of Gobo 11 from slow to fast		
				248-255	Shake of Gobo 12 from slow to fast		
				000-128	Gobo Indexing(0~360degrees)		
6	8	8	Gobo Rotation	129-188	Rotation (Clockwise From slow to Fast)		
				189-195	Stop		
				196-255	Rotation (Anti-Clockwise From slow to Fast)		
	9	9	Gobo Rotation Fine 000-255 Gobo Rotation in 16 Bit				
			Effect Wheel	000-063	No		
7	10	10		064-127	Linear prism		
,	10	10		128-191	Frost		
				192-255	Circular prism		
		11	Effect Wheel Rotation	000-127	Circular prism indexing		
				128	Stop rotating		
8	11			129-191	Clockwise rotation from slow to fast		
				192	Stop rotating		
				193-255	Anti-Clockwise rotation from slow to fast		
9	12	12	Prism	000-016	Open		
,	12	12	Prism	017-255	Prism		
	13	13		000-127	Prism Indexing		
			Prism Rotation -	128	Stop		
10				129-191	Rotation(Clockwise from slow to fast)		
10				192	Stop		
				193-255	Rotation(Anti-Clockwise from slow to fast)		
				021-255	Wheel goes back and forth from slow to fast		
11	14	14	Focus	000-255	Linear frost		
		15	Focus Fine	000-255	Focus in 16 bit precision		
12	15	16	Pan	000-255	Pan(0°~540°)		
13	16	17	Pan Fine	000-255	Pan in 16 bit precision		
14	17	18	Tilt	000-255	Tilt(0°~270°)		
15	18	19	Tilt Fine	000-255	Tilt in 16 bit precision		
	19	20	Pan & Tilt Speeds	000-255	Pan & Tilt Speed from Fast to Slow		
	20	21	Control -	000-019	Reserved		
				The following functions will be activated after the DMX value			
				has been held for more than 5s.			
16				020-024	Display On		
16				025-029	Display Off		
				030-034	Reserved		
				035-039	Lamp Half Power		
				040-044	Lamp Full Power		
18							

045-089	Reserved
090-094	Pan & Tilt Speed Mode
095-099	Pan & Tilt Time Mode
100-129	Reserved
130-139	Lamp On
140-149	Pan & Tilt Reset
150-159	Color System Reset
160-169	Gobo Wheels Reset
170-179	Dimmer/Shutter Reset
180-189	Frost/Focus/Prism Reset
190-199	Reserved
200-209	Total Reset
210-229	Reserved
230-239	Lamp Off
240-255	Reserved

Note:

- 1. The projector can't be turned on within 1 minute after the lamp-off.
- 2. Fan error can cause lamp-off.
- 3. Note: "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.
- 4. If both prism and frost are to be used, prism is prior to frost.

8. ERROR INFORMATION

The system can detect some errors during the reset, if displayed, touch the logo 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		
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. Gobo1Rotation	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		
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		
Focus	Timeout	Check if wiring, positioning parts and motors are normal		
Lamp Fan	Error	Check if fan and its wiring are normal		
Color Fan	Error	Check if fan and its wiring are normal		

Head Fan	Error	Check if fan and its wiring are normal
Pan and Tilt Board	Error	Check signal wire
Driver Board 1	Error	Check signal wire
Driver Board2	Error	Check signal wire
Acceleration Sensor	Error	Check signal wire
Lampon	Timeout	Check if he lamp is damaged
Lamp Life	Timeout Warning	
Lamp Off[Fan Error]	Error	Check if all fans are normal
Time IC	Error	

9. TECHNICAL DATA

ELECTRICAL PARAMETERS

Input voltage: 100V-240V AC, 50/60Hz

Input power: 600W @ 100V

570W @ 220V

Power factor: PF>0.9

SPECIFICATIONS OF LIGHT SOURCE

PHILIPS MSD Platinum 300S Flex (380W)

Colour Temperature 7800K +/-300K

Manufacturers Rated Lamp Life 6000hrs (Reference the spec of MSD Platinum Flex 300S)

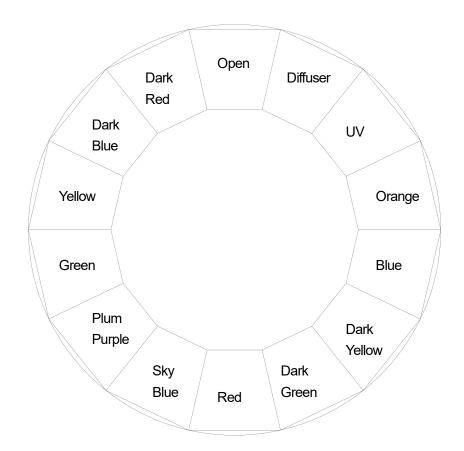
COLORS

1 Color Wheel

12Dichroic colour filters +Diffuser+ Open

Variable speed and bi-directional rainbow effect

Linear colour changing is available

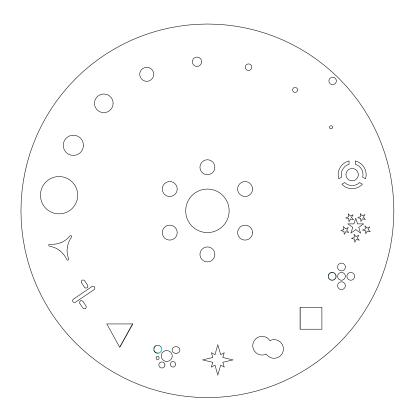


GOBOS

1 Fixed gobo wheel

16 static gobos+ white

Shaking and bi-directional wheel scrolling at variable speeds



Rotating Gobo Wheel

1Rotating gobo wheel: 12 gobos+ White

Shaking and bi-directional wheel scrolling at variable speeds

Gobo changeable. Gobo outer size: Φ12mm, image sizeΦ6mm

Gobo 1	Gobo 2	Gobo 3	Gobo 4	Gobo 5	Gobo 6	Gobo 7
	(4)	*	*			
Gobo 8	Gobo 9	Gobo 10	Gobo 11	Gobo 12		
		*	(1)	*		

PRISM/EFFECT WHEEL

3Prisms(standard 8facet prism+16facet prism+ linear prism) (bi-directional rotation with variable speeds) + Frost+ Open (Optional 3-16 facet prism or gradient prism)

FOCUS

0-100% linearly adjustable by DMX

STROBE

Double shutter blades, 0.3~20 F.P.S

HEAD MOVEMENT

Pan 540°, Tilt 270° with auto position correction

BEAM ANGLE

Beam angle 2°

CONTROL

International standard DMX512 signal and 5 pin interfaces
16channels in short mode, 20channels in standard mode,21channel in extended mode
Adjustable mode

OTHER FUNCTIONS

Adjustable Pan & Tilt speed

Fixture and lamp hours' display

Modular construction for easy maintenance

DMX512 wireless receiver

DMX512 wireless transmitter (optional)

HOUSING

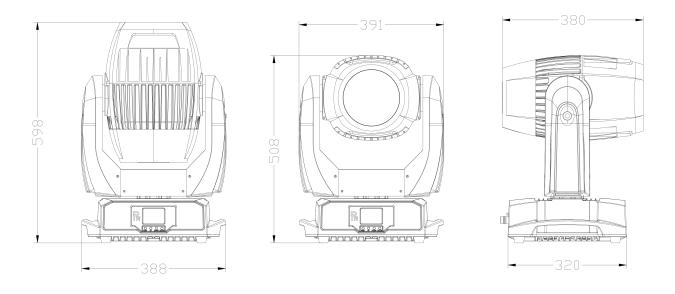
Cast Aluminum, high temperature resistant/anti-UV ABS, IP 66

WEIGHT

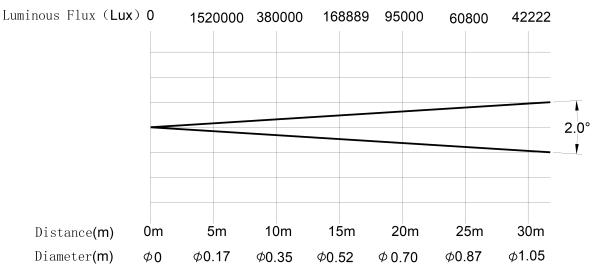
29 Kg

SIZES:

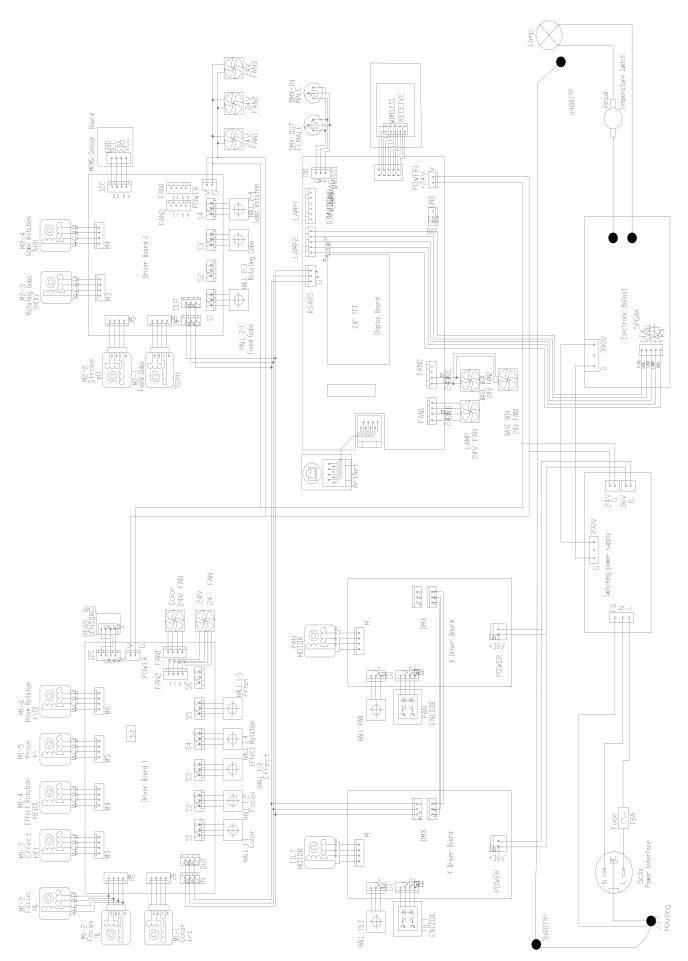
See figures below:



LIGHT OUTPUT:



10. CIRCUIT DIAGRAM AND



11. COMPONENT ORDER CODES

NAME	PART NO.	QUANTITY	REMARK
380W BALLAST	040070150	1	
LAMP	100070056	1	
POWER SWITCH	192010223	1	
FUSE	270041095	1	
TILT DRIVER BELT1	290151438	1	
TILT DRIVER BELT2	290151439	1	
PAN DRIVER BELT	290151456	1	
EFFECT WHEEL BELT	290151420	1	
8-FACET PRISM BELT	290151434	1	
COLOR WHEEL BELT	290151419	1	
FIXED GOBO WHEEL BELT	290131419	Į.	
ROTATING GOBO WHEEL BELT	290151245	1	
WATER-PROOF FAN	030060116	1	
TURBO-FAN	030060094A	2	
TURBO-FAN	030060117	1	
TURBO-FAN	030060113	2	
BASE BOX FAN	030060075	3	
PAN MOTOR	030040246B	1	
TILT MOTOR	030040265	1	
GOBO ROTATION MOTOR	030040224A	1	
EFFECT WHEEL IN MOTOR	- 030040154A	1	
8-FACET PRISM IN MOTOR		1	
FIXED GOBO WHEEL MOTOR		1	
STROBE MOTOR		1	
8-FACET PRISM ROTATION MOTOR	030040073B	1	
COLOR WHEEL MOTOR	030040073B	1	
ROTATING GOBO WHEEL MOTOR	030040073D	1	
EFFECT WHEEL ROTATION MOTOR	030040220C	1	
FOCUS MOTOR	030040290	2	
COLOR WHEELACCESSORIES	120110851	1	
ROTATING GOBO WHEEL ACCESSORIES	120110950	1	
EFFECT WHEELACCESSORIES	120110864	1	
8-FACET PRISM ACCESSORIES	120110863	1	

Appendix: Advice on the Use of Platinum Lamps

Dear Client,

The platinum lamps favored by the lighting sector have high color temperature, high brightness, high CRI,

pure light beam and other advantages. For their use, some advice is offered for your reference:

1. After lamp on, it shouldn't be turned off in a very short while. Frequent lamp on and offs will wear out its

electrodes, thus resulting in lower brightness and lumen decrease.

2. It's advised to turn off the lamp by controller, but not by shutting off the mains power which can stop the

cooling system from working immediately, shortening the lamp's lifespan and may cause short circuit

between the electrodes.

3. In case of emergent blackout, do not strike the lamp immediately after mains power recovers. The

lamp can be re-stricken successfully 10-15minutes after lamp-off while the fixture's temperature is lower

than the start one.

4. The metal vapor in the lamp can cause aging and harm to the place of the burner where it

accumulates after the head is fixed at certain position for a long time, resulting in whitening of the burner

glass, cracking in it and even damage, thus shortening of its life. It's advised to let the head move in slow

speed after shutters closed while the fixture is idle to avoid the head at fixed angle for a long time.

Thank you for your trust and patience.

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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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