

XR 380 BWS

PR-2393A

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
Safety cord	1	Pc	
Clamp	2	Pc	
Foldable clamp	2	Pc	Optional
User manual	1	Pc	

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

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

Any future technical change in the user manual won't be with any notice.

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



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.
- •If a lamp is damaged or deforms because of heat, it should be replaced.



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



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



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



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

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



- •There are safety cord holes at the bottom of the base of a projector. In view of safety, please run the safety cord supplied through the safety cord holes for safety support.
- •Before any installation, maintenance and cleaning work, please ensure the projector is disconnected from power mains.



- •. After stable operation under normal situation, its temperature is 80°C.
- •While the lamp is stricken for the first time, there will be smoke and strange smell. It's normal and does not mean the projector has some defects.
- •While it running, don't touch the metal housing to avoid being burned!



- •Do not mount the projector directly on inflammable surface.
- •Do not project the beam straightly on combustible items and the minimum distance between the projector and illuminated items is 8m.
- •A projector should be installed with good ventilation and the minimum distance between the projector and walls is 50cm. At the same time, please ensure the fans and air inlets and outlets are workable.
- •Do not let the front lens under sunlight or other strong light sources at any angle, otherwise the danger of fire can be caused by the focused beam by the lens inside a projector.



- 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

Keeping a projector is necessary and the dust, oil and smoke should not accumulate on or in it, otherwise its light output will be greatly compromised. Regular cleaning will ensure light output at maximum and reliable running during its whole life span. It's advised to use soft cloth with good quality detergent. Under whatever circumstances, it should not use alcohol or other solvent.

For the accumulation of oil and smoke on the front lens, thus sharp decrease in light output, the front lens should be cleaned once every week. Cooling fans cleaned once every month. Internal items inside the projector should be cleaned once every year using vacuum or blower. Color filters, rotators and internal mirrors should be cleaned once every month.

Regular inspection of air filters and clean them before they fully blocked. Clean air filters at the bottom of the base. Please vacuum or compressed air to clean and put them back after cleaning.



- •Before any maintenance and cleaning, please ensure the project is off the power
- •Only qualified person is allowed to do maintenance
- •During maintenance and before maintenance, the projector must be off power.



- •To avoid internal damage, sun light or other light mustn't penetrate into the projector via front lens whether it runs or not
- •Do not use alcohol or other organic solvent to clean the housing to avoid damage.
- •Do not use any solvent with chemical elements to clean color filters or hot mirror.
- . Hot mirror should be cleaned every 3 days and coated with

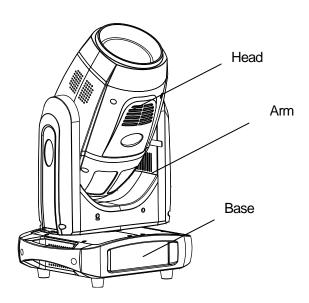
• LUBRICATION

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

•TROUBLESHOOTING

PROBLEM	ACTION		
The majester decomits writely 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		
Doors armoons dim I over in buightness	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 Defeation Decor	Check if lens are in good condition(not cracked)		
Heavily Defective Beam	Clean dust or grease on the lens.		

3. APPEARANCE

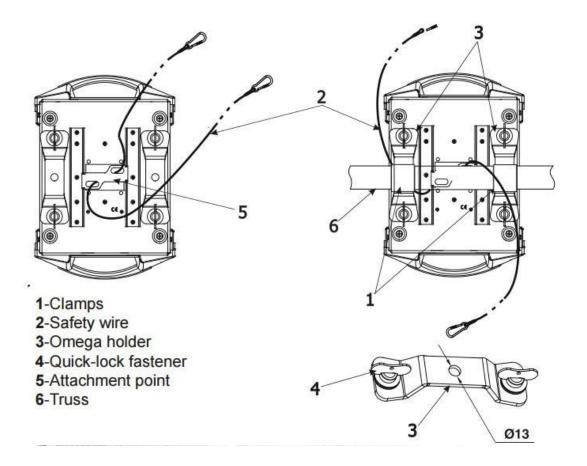


4. INSTALLATION

A projector can be placed on the stage floor directly or mounted on a truss at any direction without impacting its performance. Please use a safety cord, which can support 10 times the weight of the projector, while mounting it on the truss. The safety cord should be used with magazine with a lock. Just as the figures below, please run the safety cord through the holes at the bottom of the base and around the truss.

RIGGING

- 1. Use M12 bolt to fix the clamp(1) into the omega holder (3), run the bolt through the holder's holes
- 2. Push 2 quick-lock fasteners(4) into holes at the bottom of the base, fix them and tighten them clockwise
- $3.Run\ safety\ cord(2)\ through\ holes\ at\ the\ bottom\ of\ the\ base\ and\ around\ the\ truss(6)$



Use the spanner supplied with a projector to help installation.



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.

It must use secondary safety accessory like appropriate net. The structures of the secondary accessory must ensure that while malfunction happens, the installed parts won't fall to the ground.

While rigging, mounting or maintaining, the projector mustn't be placed in the areas listed hereinafter: the bridge, high work areas or other dangerous areas.

The operator of the projector or its related safety items must be accepted by safety experts before first launching or re-running after any replacements or repairing.

The operator must ensure a test before acceptance every 4 years and the related safety measures and installation accepted by experts.

The operator must ensure the related safety measures and its installation must be approved by the technicians every year. The projector may be installed in places under which people may walk by or sit. Important! Installations in high places requires wide experience, including but not limited to load limit calculation, the installing materials needed and regular inspection of installing materials and the projectors. If lacking the qualifications, please don't try installation by yourself, but seek help from professionals using designated lifting gears. Abnormal installation may cause body harm or property damages.

The projectors must be installed in places where people can't reach. If they are removed from ceiling or high places, professional truss must be used. It is forbidden to let any projector move freely in a room after installation.

Note: Device falling down can cause heavy body harm! If you have any questions about its safety, don't install any projector! Before installation, please ensure mounting areas can endure 10 times the weight of a project at least.

• POWER CONNECTION

Connect the power cord as follows: L(live) =brown E (earth) =yellow/green N (neutral) =blue

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



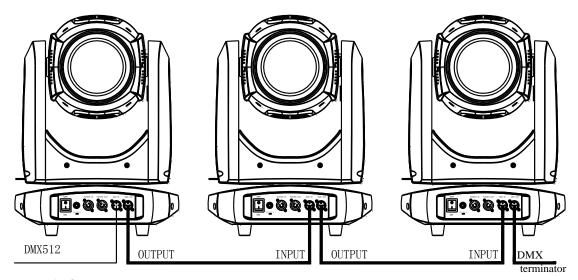
- The earth wire(yellow/green) must be connected to the ground. And electrical connection must be in accordance with the standards concerned.
- If any questions about the electrical installation, do not continue but consult a qualified electrician.

• DMX CONTROL CONNECTION

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

Note: care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. XLR plugs and sockets mustn't be connected in any way other than mentioned in the above figure. The XR330BWS accepts digital control signals in protocol DMX512 (1990).

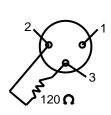
Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.



•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.

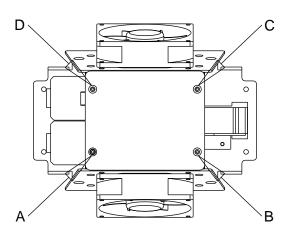


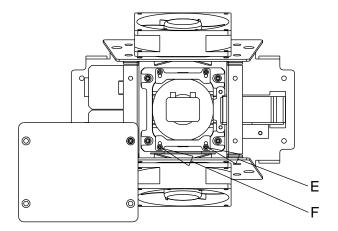
DMX TERMINATOR CONNECTION

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.



• ALIGNMENT/INSTALLATION/REPLACEMENT OF A LAMP

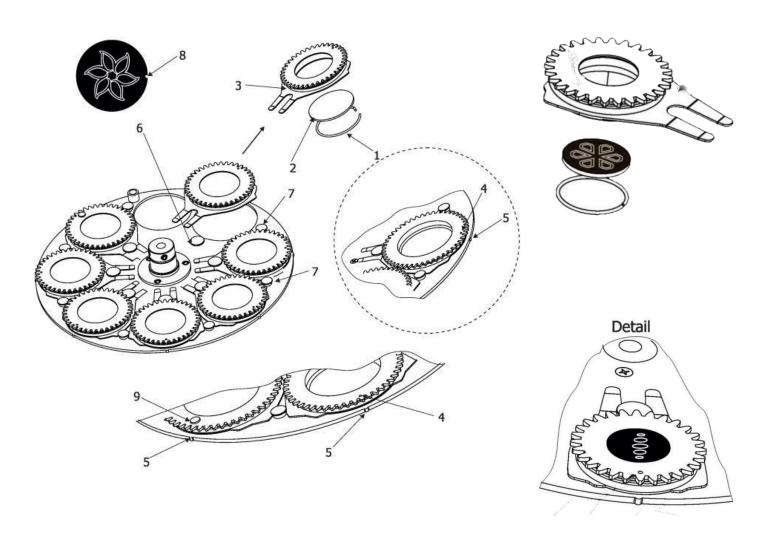




- 1. Loosen and remove screws B,C and D. Loosen screw A which can only be loosened but can't be removed, for details please see the figure on the right. Then the lamp and its supporting frames can be seen.
- 2. Loosen screws E and F and push the lamp supporting frames downward to expose the lamp's side, and remove the lamp after pushing it downward. After unplugging the lamp, remove it. Plug a new lamp with lamp wires after it is in place, push the supporting frames upward and tighten the screws to fix the new lamp. Tighten the screws after the lamp chamber cover is on. At last restore the projector's original appearance based on the opposite sequences of dismantling.

• GOBO REPLACEMENT

- 1. Disconnect the projector with mains power and let it cool
- 2. After loosening 4 1/4 fasteners of the head cover, remove it
- 3. Gently pull the gobo holder(3) from rotating gobo wheel upward.
- 4. Use appropriate tool like flat screwdriver of small size to remove spring lock(1). Do not use bare hand to touch pattern side of the gobo.
- 5. Remove the old gobo(2) and insert new one with the smooth side facing light source. At the edge of the Gleelite gobo, there is small positioning point(8), which must overlap with gobo holder's positioning point(4). Insert spring lock and fix the gobo inside the gobo holder.
- 6. Insert the gobo holder into the rotating gobo wheel via locking pins (6 and 7) and ensure positioning point (4) overlaps extruding point in the shape of tooth at the edge of the rotating wheel(5). Important! After inserting rotators into the wheel, the neighboring rotators must be positioned based on same rules, which means positioning point(4) must overlap extruding point(5) at the edge of the wheel. With 2 markings (4) and (5), when the wheel is at proper position where the rotators can be inserted, the rotators can be placed one by one.
- 7. Before power on, please install the head cover.
- 8. Use menu to fine tune replaced gobos(Service->Calibration->Standard effect->R. Gobo Indexing 1...R Gobo Indexing(6) Note: The magnet(9) in the gobo holder is of the same function as the positioning point(4).

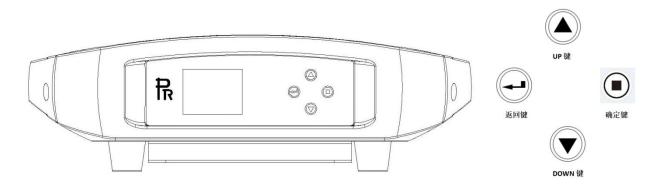




DANGER!
BEOFORE GOBO REPLACEMENT, IT MUST BE OFF POWER!

5. SETUPAND CONFIGURATION

• FRONT PANEL OPERATION



To browse through or view a projector's function settings, push any key to activate the screen after power-on. After screen unlocked, push both key and to enter into menus. Each main menu has its sub-menus with different special functions, for details please see the 5th point hereinafter OPERATION MENU.

- 1. Under menu page for function settings, push to select function desired.
- 2. During menu operation, tey is to escape, means ENTER, push key save settings or enter into submenus, push or key hang values (plus or minus).

Push key to go back to upper menu. If not, the screen will go back to initial display automatically.

DMX START ADDRESS

Push any key to enter into options interface.

If multiple projectors are controlled by DMX controller, each projector must have its own DMX address to receive DMX signals from the controller and respond to them. The projector has 2 DMX modes. There are short mode and standard mode. For example standard mode has 23 channels, so set the No. 1 projector's address 001, No. 2 projector's address 024, No. 3 projector's address 047, No. 4 projector's address 70 and so on.

Turn on a projector and push any key to enter into options interface

Select CHANNEL MODE icon and push ENTER key . Select DMX ADRESS in 2nd level menu to set start address Push key UP or DOWN to set value desired.

Push ENTER key oconfirm it.

Push ESCAPE key oconfirm it.

•STAND-ALONE MODE

Without connecting a projector with a controller via XLR cable, after preset memories under the master mode enabled, it will run in Stand-Alone mode.

•MASTER/SLAVE MODE

(1) Edit the scene desired

Two ways to edit scene

a. Edit manually

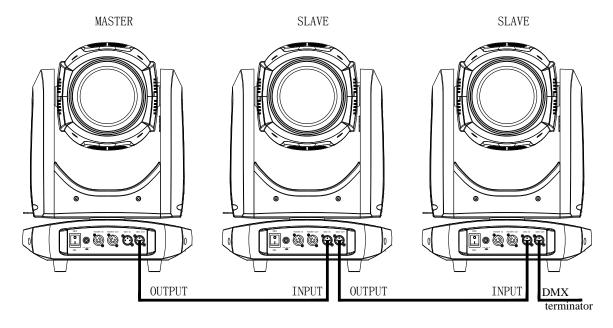
Disconnect a projector from XLR cable and enter into scene editing via control panel. A scene has 20 steps and select any step via its sequence No.. Enter into channel control to edit its data. After disconnected from a DMX controller, a projector will respond to data edited simultaneously.

b. Edit with help of a DMX controller

Use a DMX controller to control a projector. After the projector is controlled properly in positions, select the sequence No. of step to be saved and click to store DMX values.

Current DMX data will be automatically saved to its scene's data and the sequence NO. added 1. And so on, it can save 20-step scene.

(2) Select use mode from scene menu. There are 2 modes for selection: single and recycle. If not used, it can be closed.



6. OPERATION MENU

Menu interface: 1. DMX address 2. Config 3. Manual control 4. Scene 5. System settings 6. Information 1) Explanations for menu functions. Push any key to enter into option interface while at initial display

Main menu	1 st level menu	2 nd level menu	Description	
DMX address DMX Setting		001-512	Select "DMX address" option 1) After ENTER key pushed, the current DMX address will be shown 2) Push UP or DOWN key to set address 3) Push ENTER key to save and exit. Push ESCAPE key to exit directly	
	Channel mode	19CH Short Mode	Select "Channel mode" option 1) After ENTER key pushed, current channel mode will be shown(20CH for standard mode,16CH for short mode) 2) Push UP or DOWN key to select either of the options;	
	Chamer mode	23CH Standard mode	 2) Push UP of DOWN key to select either of the options; 3) Push ENTER key to save the mode selected. PUSH ESCAPE key to go back to the upper level menu and cancel the mode selected 	
	Lamp Striking	Auto lamp-on	Select "Lamp Striking" Option 1) Push ENTER key to show current mode(Auto lamp-on, lamp-on by DMX control). 2) Push UP or DOWN key to select either of the options. 3) Push ENTER key to save the mode selected. PUSH	
		Lamp-on by DMX control	ESCAPE key to go back to the upper level menu and cancel the mode selected	
Config		Pan Invert	Select 'Pan and Tilt Invert' option 1) Push ENTER key and the options will be shown on the	
Colling	Pan & Tilt	Tilt Invert	display (Open or Close) 2) Push UP or DOWN key to select either of the options. 3) Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.	
		Pan and Tilt swap	Select 'Pan and Tilt Swap' option 1) Push ENTER key and the options will be shown on the display (Open or Close)	

			2) Push UP or DOWN key to select either of the options.3) Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.		
	GOBO Calibration	GOBO1 GOBO2 GOBO3 GOBO4 GOBO5 GOBO6 GOBO7	1) Push ENTER key and the quantity of the shift will be shown on the display 2) Push UP or DOWN key to set the shift quantity. 3) Push ENTER key to save the selected. PUSH ESCAPE key to exit directly.		
	Channel calibration	(Hidden)	Push both UP and DOWN keys to enter into the menu, push DOWN or UP key to select, push ENTER key to save.		
		Open	Select"Lamp Control"option 1) Push ENTER key and the options will be shown on the		
	Lamp control	Close	display (Open or Close) 2) Push UP or DOWN key to select either of the options. 3) Push ENTER key to save the selected. PUSH ESCAPE		
		Full power	key to cancel the setting. Select"Lamp power"option 1) Push ENTER key and the options will be shown on the		
	Lamp power	Half power	display (Full or half power) 2) Push UP or DOWN key to select either of the options. 3) Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.		
	System reset	Head reset	Select"System reset'option 1) Push ENTER key and the reset options will be shown on		
Manual control		Pan and Tilt reset Total reset	the display (Head reset, pan and tilt reset and total reset) 2) Push UP or DOWN key to select any of the options. 3) Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.		
	Mode	Close	Select"Mode"option 1) Push ENTER key and the options will be shown on the		
		Single	display (Close, single and cycle) 2) Push UP or DOWN key to select any of the options. 3) Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.		
		Cycle			
	Sequence No	1-20	Select"Scene"options		
	Effective	Yes	Push ENTER key and the options will be shown on the display (No., Effective and time)		
Scene		No	2) Push UP or DOWN key to select any of the options.3) Push ENTER key to save the selected. PUSH ESCAPE		
	Time	3.0	key to cancel the setting.		
	Save DMX value	Yes			

		Cancel			
	Channel control	DMX Channel	Select"Channel control"options 1) Push ENTER key and the option will be shown on the display (all DMX channels) 2) Push UP or DOWN key to enter into any of the options(adjustable between 0 and 255). 3) Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.		
		Chinese	Select"Language"options		
	Languages	English	 Push UP or DOWN key to select either of the options. Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting. 		
	Display	Normal	Select 'Display' options 1) Push ENTER key and the way the screen displayed will be shown		
		Invert	 2) Push UP or DOWN key to select either of the options. 3) Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting. 		
Crystoms	Backlight	Auto	Select"Backlight"options 1) Push UP or DOWN key to select either of the options.		
System settings		On	Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.		
	Factory settings	Yes	Select "Factory settings" options 1) Push UP or DOWN key to select either of the options.		
		Cancel	Push ENTER key to save the selected. PUSH ESCAPE key to cancel the setting.		
		1. Total hours (H)			
		2. Lamp time (min)			
		3. The No. Lamp	Select"Information"options 1) Push ENTER key and the information will be shown		
Information		replacements	2) Push UP or DOWN key to select any of the options.		
		4. replace Lamp	3) Push ENTER key to save the selected. PUSH ESCAPE		
		5. Fan voltage	key to cancel the setting.		
		6. Error messages			
		7. About			

7. DMX PROTOCOL

PR-2393A double prism DMX chart					
DMX channel					
Short Mode Standard Mode		Value	Function		
1	1	Pan			
		0-255	0-100%		
2		Pan Fine			
		0-255	0-100%		
2	2	Tilt			
2	3	0-255	0-100%		

	4	Tilt Fine	
	4	0-255	0-100%
3	5	Pan and Til	t speed
3	5	0-255	Fast ->Slow
		Strobe	
		0-3	Close
		4-103	Strobe: Slow->Fast
		104-107	Open
4	6	108-207	Pulse strobe: Slow->Fast
4	U	208-212	Open
		213-225	Strobe at random: slow speed
		226-238	Strobe at random: medium speed
		239-251	Strobe at random: fast speed
		252-255	Open
5	7	Dimmer	
J	,	0-255	0-100%
		Colors	
		0-4	Open
		5-9	Color1
		10-14	Color2
		15-19	Color3
		20-24	Color4
		25-29	Color5
		30-34	Color6
		35-39	Color7
		40-44	Color8
		45-49	Color9
		50-54	Color10
		55-59	Color11
6	8	60-64	Open+Color1
	o o	65-69	Color1+Color2
		70-74	Color2+Color3
		75-79	Color3+Color4
		80-84	Color4+Color5
		85-89	Color5+Color6
		90-94	Color6+Color7
		95-99	Color7+Color8
		100-104	Color8+Color9
		105-109	Color9+Color10
		110-114	Color10+Color11
		115-119	Color11+Open
		120-185	Clockwise rotation: Fast->Slow
		186-189	Stop
		190-255	Anti-clockwise rotation: slow->fast

		Effect whee	el
7	9	0-9	Open
		10-255	Flowing water effect: Slow->Fast
		Fixed gobo	wheel
		0-4	Open
		5-9	GOBO1
		10-14	GOBO2
		15-19	GOBO3
		20-24	GOBO4
		25-29	GOBO5
		30-34	GOBO6
		35-39	GOBO7
		40-44	GOBO8
		45-49	GOBO9
		50-54	GOBO10
8	10	55-61	GOBO1 SHAKE: Slow->Fast
		62-68	GOBO2 SHAKE: Slow->Fast
		69-75	GOBO3 SHAKE: Slow->Fast
		76-82	GOBO4 SHAKE: Slow->Fast
		83-89	GOBO5 SHAKE: Slow->Fast
		90-96	GOBO6 SHAKE: Slow->Fast
		97-103	GOBO7 SHAKE: Slow->Fast
		104-110	GOBO8 SHAKE: Slow->Fast
		111-117	GOBO9 SHAKE: Slow->Fast
		118-124	GOBO10 SHAKE: Slow->Fast
		125-187	Clockwise rotation: Fast->Slow
		188-192	Stop
		193-255	Anti-clockwise rotation: slow->fast
		Rotating GO	OBO wheel
		0-9	Open
		10-19	GOBO1
		20-29	GOBO2
		30-39	GOBO3
		40-49	GOBO4
		50-59	GOBO5
9	11	60-69	GOBO6
	11	70-79	GOBO7
		80-89	GOBO1 SHAKE: Slow->Fast
		90-99	GOBO2 SHAKE: Slow->Fast
		100-109	GOBO3 SHAKE: Slow->Fast
		110-119	GOBO4 SHAKE: Slow->Fast
		120-129	GOBO5 SHAKE: Slow->Fast
		130-139	GOBO6 SHAKE: Slow->Fast
		140-149	GOBO7 SHAKE: Slow->Fast

		150-202	Clockwise rotation: Fast->Slow
		203-255	Anti-clockwise rotation: slow->fast
		GOBO Rota	ition
10	12	0-127	Positioning:0-360°
10	12	128-191	Clockwise rotation: Fast->Slow
		192-255	Anti-clockwise rotation: slow->fast
		16 facet pris	m
11	13	0-127	No
11	13	128-191	Prism 1 in
		192-255	Prism 2 in
		16 facet pris	m rotation
12	1.4	0-127	0-360°
12	14	128-191	Clockwise rotation: Fast->Slow
		192-255	Anti-clockwise rotation: slow->fast
		8 facet prism	1
12	1.5	0-127	No
13	15	128-191	Prism 1 in
		192-255	Prism 2 in
		8 facet prism	rotation
1.4	16	0-127	0-360°
14	16	128-191	Clockwise rotation: Fast->Slow
		192-255	Anti-clockwise rotation: slow->fast
15	17	Frost	
13	17	0-255	0-100%
16	16 18	Zoom	
10	10	0-255	0-100%
	19	Zoom Fine	
	19	0-255	0-100%
17	20	Focus	
17	20	0-255	0-100%
	21	Focus Fine	
	21	0-255	0-100%
		Reset	
		0-25	NO
18	22	26-76	Head reset
		77-127	Pan & Tilt reset
		128-255	Total reset
		Lamp contro	ol
19	23	0-25	No
	23	26-100	Lamp off
		101-255	Lamp on

8. ERROR MESSAGE

Name	Туре	Correction		
Pan	Optical sensor error: Pan	Check if wiring, optical sensor and motors are normal		
Tilt	Optical sensor error: Tilt	Check if wiring, optical sensor and motors are normal		
Pan & Tilt driver board	Communication error: module1	Check if wiring, hall sensor and motors are normal		
Motor driver board	Communication error: module2	Check if wiring, hall sensor and motors are normal		
Focus	Hall error: Focus	Check if wiring, hall sensor and motors are normal		
Zoom	Hall error: Zoom	Check if wiring, hall sensor and motors are normal		
Effect wheel	Hall error: Effect wheel	Check if wiring, hall sensor and motors are normal		
Color wheel	Hall error: Color wheel	Check if wiring, hall sensor and motors are normal		
Fixed gobo wheel	Hall error: Fixed gobo wheel	Check if wiring, hall sensor and motors are normal		
Rotating gobo wheel	Hall error: Rotating gobo wheel	Check if wiring, hall sensor and motors are normal		
Lamp striking	Lamp striking error	Check if wiring and igniter are normal and if the voltage of		
Lamp surking		the igniter is normal		

9. TECHNICAL DATA

ELECTRIC PARAMETERS

Input voltage $200V\sim240V$ AC, 50/60Hz

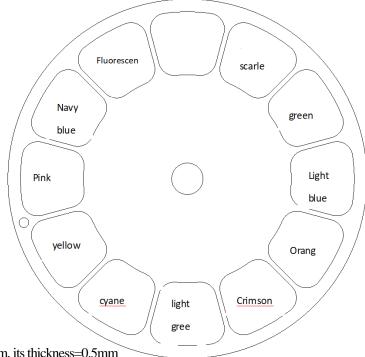
Input power 500W@230V
Power factor PF>0.90

THE SPECIFICATIONS OF THE LIGHT SOURCE

Lamp MSD Platinum 300S Flex Color temperature 7800K+/-300K rated life 6000hrs

COLORS

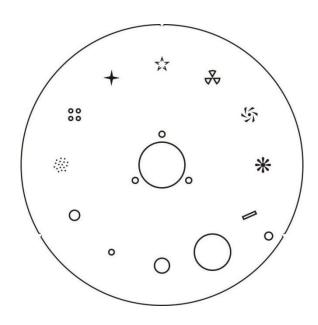
1color wheel: 11colors+ Open

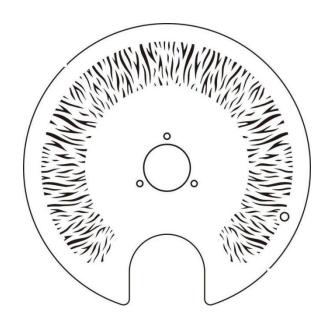


FIXED GOBO WHEEL/EFFECT WHEEL

1 fixed gobo wheel: 10gobos+open, gobo diameter=6.5mm, its thickness=0.5mm

1 fire effect wheel





ROTATING GOBO WHEEL

1 rotating gobo wheel:7 gobos +open Gobo diameter Φ12.5mm, 2.2mm thick

1	2	3	4	5	6	7

PRISM/FROST

1 8-facet prism and 1 16-facet prism, bi-directional rotation from slow to fast

FOCUS

DMX linear focus

DIMMER/STROBE

Strobe at variable speeds(15 F.P.S at maximum)

0-100% linear dimmer

HEAD MOVEMENT

Pan 540 °, Tilt 270 °with 16 bit control

BEAM ANGLE

Beam: $2 \sim 20 ^{\circ}$

Spot: 6 $^{\circ}$ 30 $^{\circ}$

Wash: 17 [∞] 45 °

CONTROL

Projector and lamp information readable, external DMX value received and thermal sensor built-in for error and malfunction analysis Preset memory

Unintentional head move to cause power-off, quiet fans for cooling

International standard DMX 512 protocol, 5-pin interface 19channels in short mode and 23channels in standard mode

OPTIONAL WIRELESS CONTROL MODULE/RDM MODULE

Compliant with USITT DMX-512 (1986 and 1990) and 512-A Full DMX for fidelity and DMX framing integrity Auto-detecting DMX framing size and speed

<5ms DMX delay

Frequency range 2402-2480 MHz

HOUSING

High temperature ABS and aluminum, IP20

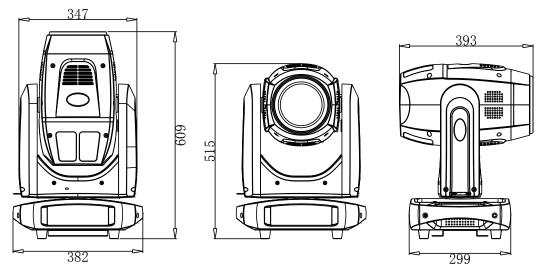
NET WEIGHT

19Kg

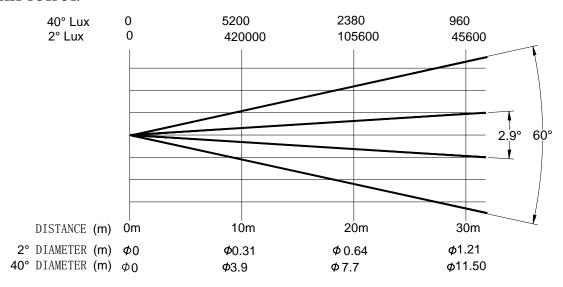
OPERATION TEMPERATURE

Ambient temperature at maximum: $40\,\mathrm{C}$

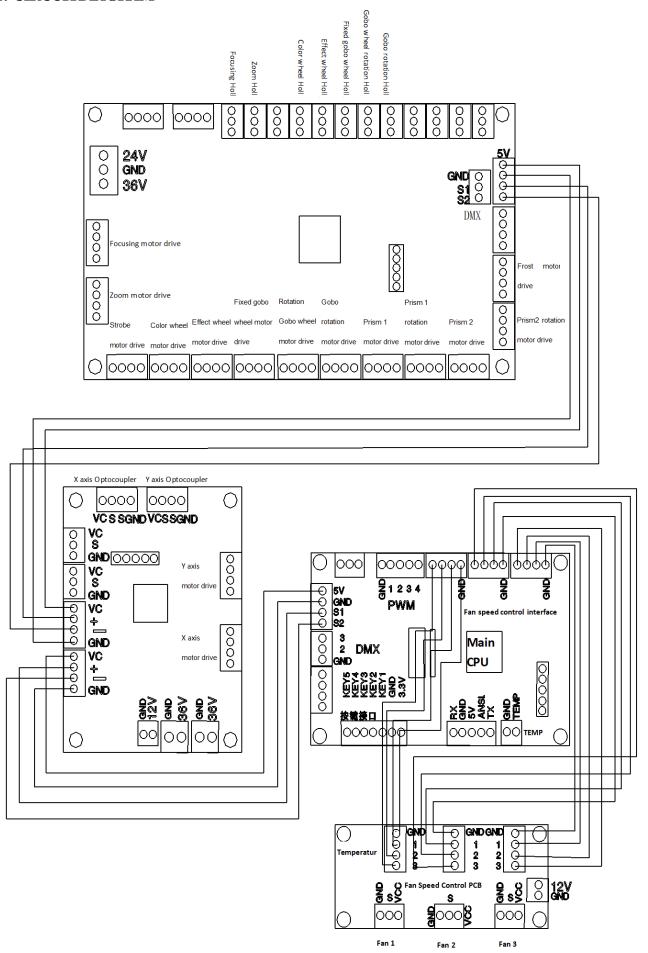
SIZES:



LIGHT OUTPUT:



10. CIRCUITDIAGRAM



11. COMPONENT ORDER CODES

Name	Code No.	Qty	Remarks
Pan Motor	GL3802DY01	1	
Tilt Motor	GL3802DY02	1	
Rotating gobo wheel	GL3803TA01;	1	7 glass gobos
	GL3802TA03;	1	
	GL3803TA02;	1	
	GL3802TA01;	1	
	GL3803TA03;	1	
	GL3803TA04;	1	
	GL3803TA05;	1	
Color wheel	GL3801YSP01;	1	- 11 colors, each code no. stands for one color
	GL3801YSP02;	1	
	GL3801YSP03;	1	
	GL3801YSP04;	1	
	GL3801YSP05;	1	
	GL3801YSP06;	1	
	GL3801YSP07;	1	
	GL3801YSP08;	1	
	GL3801YSP09;	1	
	GL3801YSP10;	1	
	GL3801YSP11;	1	
Fixed gobo wheel	GL3802TA08;	1	
	GL3801TA09;		
Switching power supply	GL3801DY3	1	
Lamp	100070056	1	MSD Platinum 300S Flex
Ballast	040070150	1	

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

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

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

It is advised not to use lamp half power function for long time.

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

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