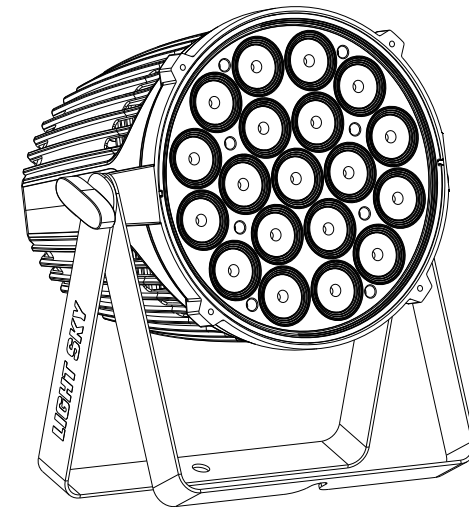


LiGHT SKY

FLY DRAGON LIGHTING EQUIPMENT CO.,LTD



LiGHT SKY

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PL1915 HC

USER MANUAL

Please read these user manual carefully before use

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Congratulations on choosing our company product! We thank you for your custom.

◆Please note that this product, as all the others in the rich my company range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

◆Carefully read this user manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

◆My company disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this user manual, which must always accompany the fitting.

◆My company reserves the right to modify the characteristics stated in this user manual at any time and without prior notice.

SAFETY INFORMATIONCE



■ This lighting fixture is for professional use only - it is not for household use;

■ Installation

Make sure all parts for fixing the projector are in a good state of repair.

Make sure the point of anchorage is stable before positioning the projector.

The safety chain must be properly hooked onto the fitting and secured to the framework.

When suspending the fixture, ensure that the supporting structure and all hardware used can hold at least 10 times the weight of all the devices they support.



■ Mounting surface and fire protection

Please do not install the luminaire directly on the surface of combustible substances.

Keep all flammable materials at least 20cm away from light fixtures.

There should be no obstructions at least within 20cm of the fan or ventilation on the luminaire.

Do not expose the front glass to sunlight or other strong light sources from any angle.

The lens can focus the sun's rays into the fixture, creating a potential fire hazard.



■ Maximum ambient temperature

$t_a 40^{\circ}\text{C}$

This luminaire is suitable for indoor use, and protective devices are added for outdoor use.

If the ambient temperature (T_a) exceeds 40°C , please do not operate this luminaire.



■ Protection against electrical shock

The ground wire of the power supply system must be effectively grounded (standard EN 60598-1).

In addition, it is recommended that you use an appropriately sized leakage circuit breaker to protect the power cord of the luminaire from being indirectly grounded or short-circuited to ground.



■ Connection to mains supply

Double insulation employed between LV power and control conductors on luminaires.

The bus to which the power supply is connected must be installed by a qualified professional technician.

Check whether the bus frequency and voltage are consistent with the values marked on the label on the luminaire, that is, consistent with the design values of the luminaire.

The label also gives the input power, you need to refer to the calculation of the maximum number of lamps

that can be connected to the wire to avoid overloading.

Do not use the power cord with damaged insulation.

When the power cord of the luminaire is found to be damaged, it must be replaced by the manufacturer or dealer or a qualified person to avoid danger.

When the 110V-power supply is used, the interconnection of the luminaire shall not exceed 5;
when the 220V-power is supplied, the interconnection of the luminaire shall not exceed 10.



t_c 65℃



■Temperature of the external surface

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 80℃ about.

Avoid contact by persons and materials.

Allow the fixture to cool for at least 5 minutes before handling.



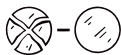
■Maintenance

Before starting any maintenance work or cleaning the luminaire, the power supply to the luminaire must be disconnected.



■The light source

The light source in this luminaire should be replaced by the manufacturer or its service agent or a similarly qualified person. Always switch off the power supply before replacing the light source.



■Protection against explosion

The protective screen, lens or UV screen on the luminaire should be replaced if there is visible damage, that is, damage to the extent of failure, such as cracks or deep marks.



■Protection optical radiation

Never look directly into the light source. You risk injury to your retina, which may induce blindness.

Do not look at LEDs with magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light output.



- The product implementation standard: GB/T 7000.1-2023 、 GB/T 7000.217-2023
- Approved certifications: CE、RoHs
- The product complies with the following EU directives:
Low Voltage Directive 2014/35/EU . EMC Directive 2014/30/EU

TECHNICAL INFORMATION

● **Power supplies available** : 100-240V 50/60Hz

● **Max Power /Power Factor**: 300W, PF 0.988

● **Power in connector**: PG power in

● **DMX and RDM data in/out** : Locking 3-pin XLR

● **SOURCE**

- 19PCS 15W 2550K +6400K White LED
- Light source power: 15W
- Average lifespan: ≥50000h
- Luminous flux: 6380 lm
- Ra>91 (2550K), Ra>94 (6400K)
- Lens material / angle: PMMA
- Angle of vertical dip: ±90°
- Optical Angle: 38°

● **Dynamic effects**

- Color: Cool and warm white color mixing system, uniform color mixing without flicker.
- Dimmer : 16Bit, 0-100% linear dimming, four dimming curves are optional.
- Strobe : 0.5-13 times/s, Ultra-bright stroboscopic, ensuring fast flashing while maintaining light brightness

● **Control and programming**

- RDM bidirectional data transmission.
- Menu to display device temperature, channel data and software version information.
- **Inputs** : DMX512 、 RDM
- **Control channels**: 5CH, See the channel table for details
- **Display** : Meter tube display screen , the menu can display equipment temperature, channel data and software version information .

● **Features**

- Remote control light switch function display light and lamp's using time.auto maticallay adjust cooling-fan's speed.

● **Protection: IP20**

● **Safety Devices**

- BIPOlar circuit breaker with thermal protection.
- Automatic break in power supply in case of overheating or failed operation of cooling system.

● **Cooling** :Forced ventilation with square fans.

● **Structure** :

- The luminaire adopts die-cast aluminum alloy split thermal structure design, which has good heat dissipation performance.
- Accessories: visor (Optional)

● **APPROVALS:**

- In conformity with the European Union Low Voltage Directive 2014/35/EU and Electromagnetic compatibility Directive 2014/30/EU.
- Executive standard: GB 7000.1-2015 or GB7000.217 - 2008
- authentication:CE、RoHs

● **Light size**: 231X194X279MM

● **Box Size:**

- 220X220X255MM(single pack) N.W.: 3.4Kg , G.W.:3.8Kg
- 465X465X280MM(4 sets) N.W.: 13.6Kg , G.W.:16.2Kg

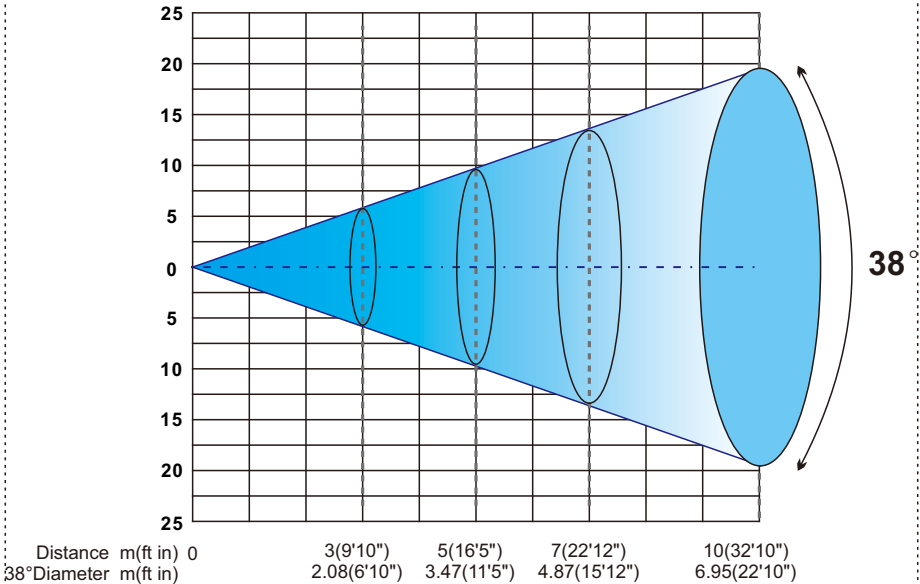
● **Flycase Size** :

- 1080X730X560MM(12 sets) N.W.: 40.8kg , G.W.: 79.5kg

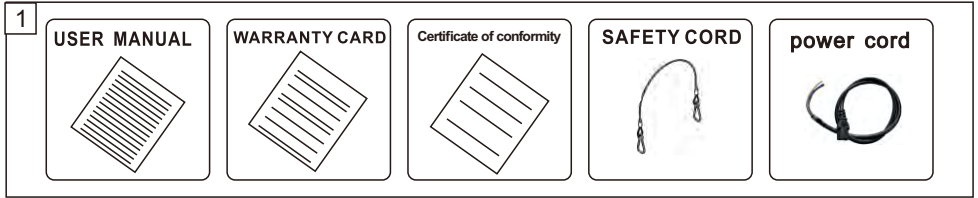
Distance, spot diameter and illumination diagram

(38°)

38° Lux(fc)	2550k	4673(434)	1540(143)	850(79)	400(37)
	6400k	6303(586)	2224(207)	1127(105)	561(52)
	2550k+6400k	6260(582)	2225(207)	1135(105)	550(51)

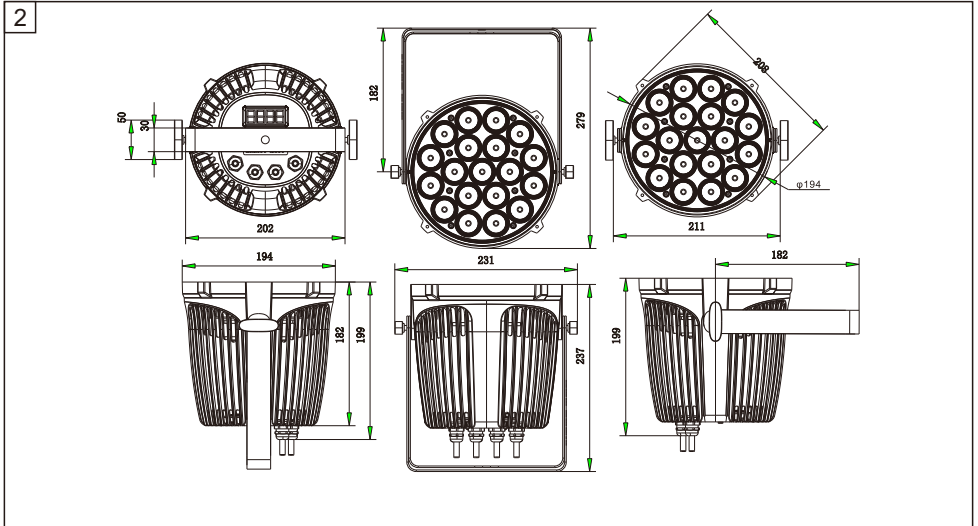


ATTACHMENT AND BODY SIZE

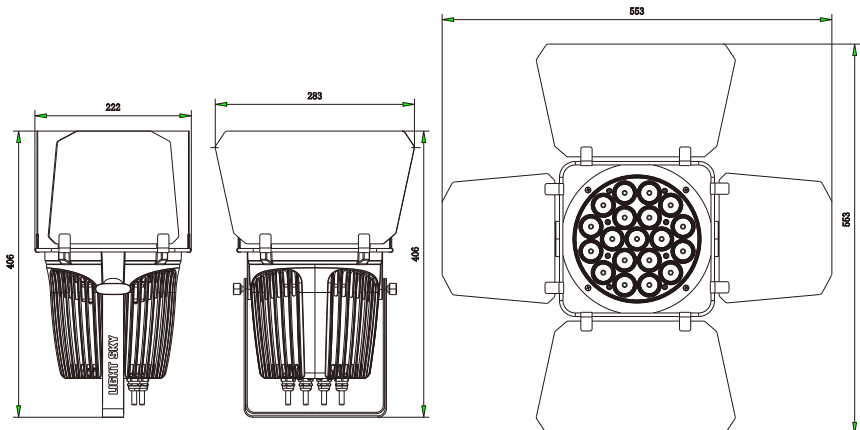


Attachment contents- Fig. 1

◆One power adapter is provided for every 6 lamps.



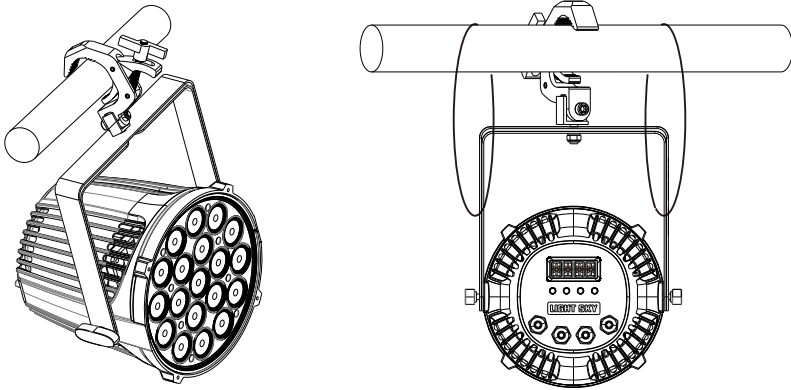
(Light shields are optional accessories)



Body Size---Fig 2

INSTALLATION AND CONNECTING

3



Installing the projector- Fig. 3

The projector can be installed on the floor resting by means of brackets, on a truss or on the ceiling or wall.
WARNING:with the exception of when the projector is positioned on the floor, the safety rope must be fitted.
This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.

Make sure all parts for fixing the projector are in a good state of repair.

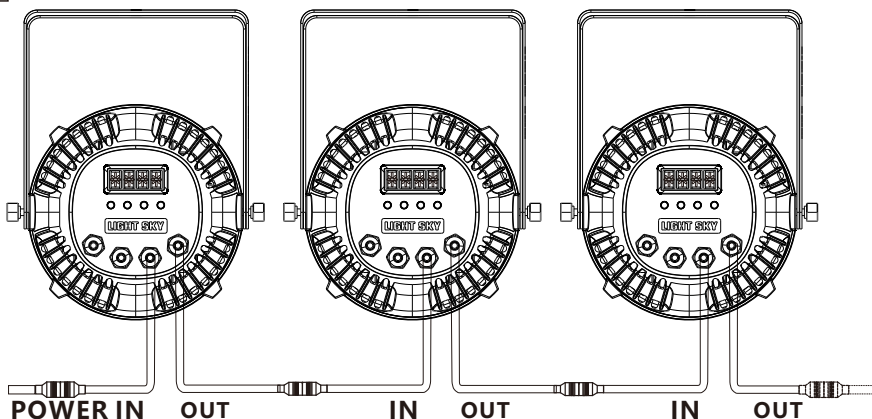
Make sure the point of anchorage is stable before positioning the projector.

When suspending the fixture, ensure that the supporting structure and all hardware used can hold at least 10 times the weight of all the devices they support.



Our company is fully operational in any mounting position, hanging upside-down, side mounted, or set on a flat level surface, etc. Be sure this fixture is kept at least 0.5m .

(about 1.6feet) away from any flammable materials (decoration etc).

When clamp mounting; always use and install the supplied safety cable as an added safety measure to prevent accidental damage in the event of a clamp failure. See the.



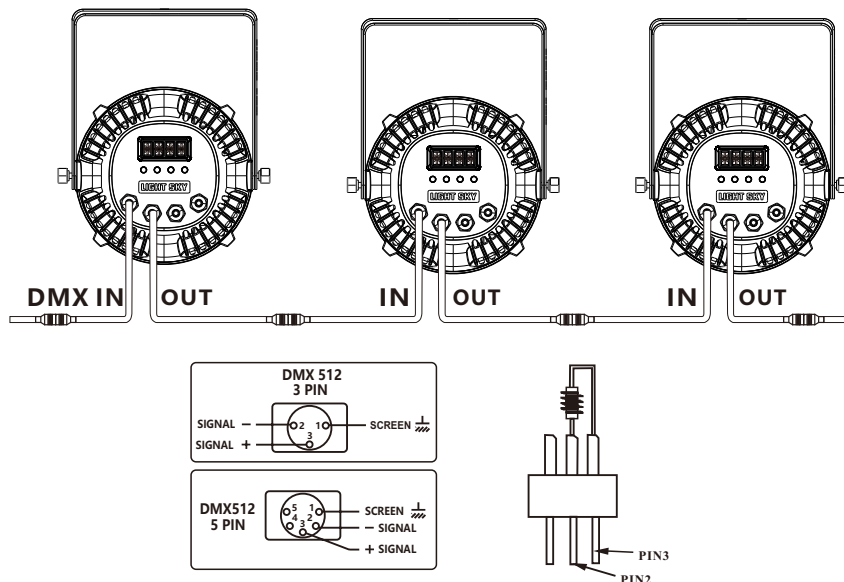
Power cord color numbers and power connections are listed in the table below:

Conductor	Symbol	Wire Color (EU models)	Wire Color (US models)
live	L	brown	black
neutral	N	blue	white
ground(earth)	 or 	yellow-green	green

Connecting to the mains supply ---Fig 4

- connection to the electricity mains must be carried out by a qualified electrical installer.
- After doing the above operation and making sure all the devices had been installed with natural operate, press the power switch to check whether every-thing is working normally.

5



Connecting to the control signal line (DMX) - Fig. 5

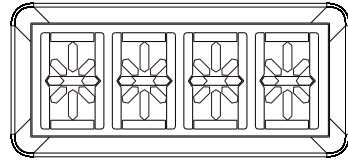
© Please use the round 3 or 5-pin XLR plugs & sockets offered by menu factory to connect the first projector's output to the second projector's input and connect the second projector's output to the third projector's input. And in the same way for the rest, eventually connect the last projector's output, all the projectors are together.

© The projectors's control signal output or input by using the 3 or 5-pin XLR plug and socket. If need to lengthen the communication cable, please make sure the both side of 3 or 5-pin plug is one to one (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted. The communicate cable is 2-cord screened cable $75\ \Omega$ resistance with each core is at least a 0.5mm diameter. (**Caution:** All the inside leading wire of 3 or 5-pin XLR plug couldn't touch each other or plinth).

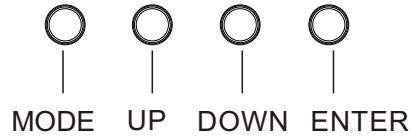
© Recommend to use the DMX signal terminator for the installation to avoid the electronic noise damage the digital control signal. Simply speaking, DMX terminator is an XLR connector with a $120\ \Omega$ $1/2W$ resistor connected across pin 2 and 3. Which is then plugged into the output socket on the last projector in the chain. Refer to the connection.

CONTROL PANEL

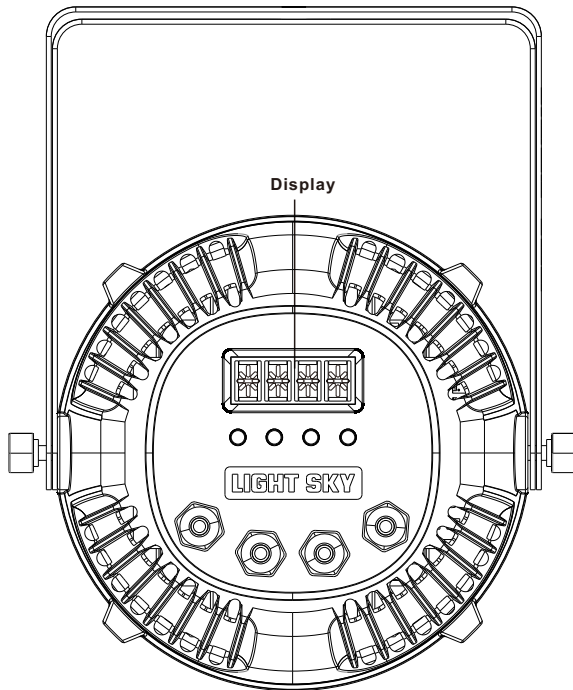
1



- Mode : Esc
- Up arrowhead : page up
- Down arrowhead : page down
- Enter : OK or Enter page



2



MENU SETTING

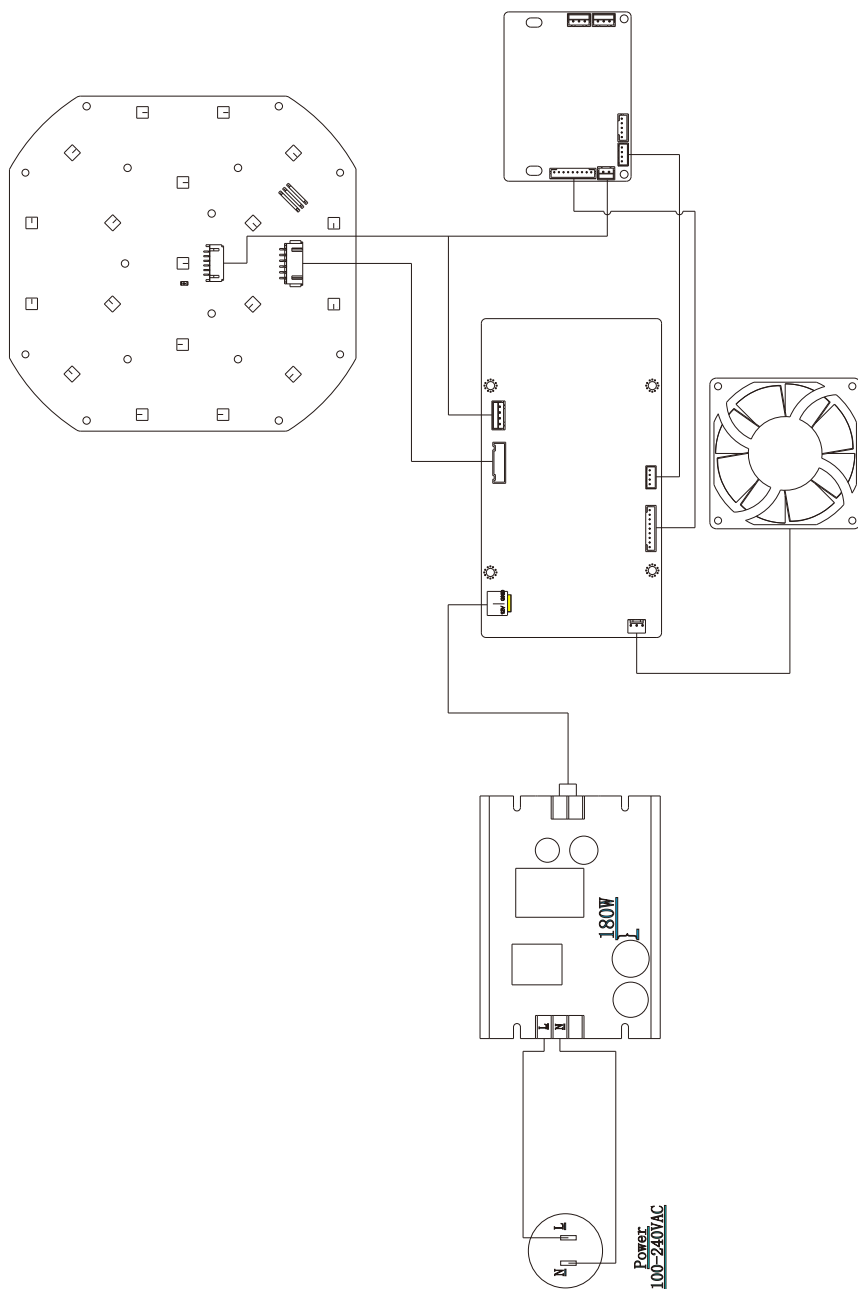
Main menu	I Menu	II Menu	Note
Addr	A. ***		Set address code (default 001)
AUTO	DMX. F	BLAC	When there is no DMX signal, black burst
		HOLD	When there is no DMX signal, keep the last state (default)
		L1	When there is no DMX signal, it will be 2550K bright
		L2	When there is no DMX signal, it will be on at 6400K
	M-S	L1L2	When there is no DMX signal, it will be on at 2550K+6400K
		SLAV	In master-slave mode, slave (default)
INFO		MAST	In master-slave mode, the master
	VERS	V*. 00	software version number
	TEMP	xx. C	Lamp temperature
MANU	FAN		Fan voltage/speed (press up and down keys to switch)
	1. 000		2550K
	2. 000		6400K
FACT	CODE		(After factory reset, all the above settings will return to "default")

Quick light: When the lamp has no DMX signal, press and hold Enter for 3 seconds, the light is fully on; press the up and down buttons to adjust the brightness, long press the MODE button for 3 seconds to exit the "quick light" mode, and the lamp will turn off.

CHANNEL FUNCTION

Channel	DMX	Function/	Note
5CH			
1		Shutter	
	0..2	No function	
	3..255	Strobe effect slow to fast	
2		Dimmer	
	0..255	Dimmer 0%...100%	
3		2550K	
	0..255	0-100% dimmer from dark to bright	
4		6400K	
	0..255	0-100% dimmer from dark to bright	
5		CCT	
	0-3	No function	
	4..255	2550K-6400K	

Circuit connecting diagram



CLEANING AND MAINTENANCES

- 1. In order to ensure the fixture could work normally. It should be kept clean always .
The lens should also be regularly cleaned to maintain an optimum light output.
Do not use any type of solvent on lens. It will damage the fixture.
- 2. Suggestion: The continue usage of the light don't exceed 4 hours. Or it will shorter the usage of the lamp. Please use the alternative operation to solve this problem.
The fixture power ON time is best not over 48 hours, or it would generate lamp protection procedure.
- 3. Please disconnect the power supply when begin to maintenance take down the fixture.
Please let the parts cool down 10 minute at least then begin to install.
- 4. The fixture use the strong cool system. It is easy for the dirty to be collected. Please do clear the hot-sak one time two week at least.
- 5. After you use the fixture, please check the intake place whether there are some wastepaper, please clean it up, or the windmill will break down and causing fire.

CAUTION!!!

Disconnect from mains before starting maintenance operation.

TROUBLESHOOTING

It is recommended some solution for some normal trouble shooting. Any inextricability problems should always be handling by the professional person. Disconnect the power supply before maintenance the fixture.

■ LED off :

- ◎ Please check if install the suitable voltage
- ◎ Please check whether the led will reach the end of their life can explode; please replace a same description led.
- ◎ Please check if the power supply is enough.
- ◎ Please check whether the DMX 512 controller pass the "turn on" order.

■ The fixture couldn't accept the control order:

- ◎ Please check the start code address and the function option are correct.
- ◎ Please check whether the communicate control cable is on good connection or the cable is too long or interrupt.
- ◎ Please check the control system is not valid, check the signal amplifier of chain connected is valid.
- ◎ Please check whether the communicate cable is too long or the other equipment is mutually conjugate.
- ◎ Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.
- ◎ Add the signal amplify isolator.;
- ◎ Signal cable is used the excellent screening doublet (Resistance 75 OHM)
- ◎ The end of the light end and the end resistance.

■ The fixture can't move:

- ◎ Please check if the power supply is suitable for the light voltage data.
- ◎ Please check the light if they are deformation, inside parts is broken, become wet etc will lead the loose contact.
- ◎ Please check the if the inside lead wire and the connector is loose.
- ◎ Please check the electric parts(such as the transformer,PCB board,contrller) is short-circuit or burn down.

DUTY EXONERATIVE AND COPYRIGHT PROTECTION

- The light source is a consumable product and is not covered by the warranty.
- The manufacturer is not responsible for any damage to the lamp caused by failure to operate in accordance with this manual.
- The final interpretation right of all the information in this manual belongs to the manufacturer.
- All information in this manual may not be copied without permission.
- The data contained in this manual may change in the future without prior notice.