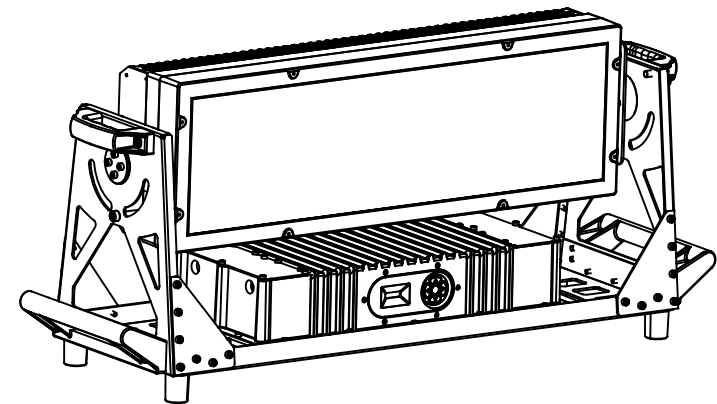# LIGHT SKY®

FLY DRAGON LIGHTING EQUIPMENT CO.,LTD

LIGHT SKY®

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LIGHT SKY®

SUNNY MINI

USER MANUAL

Please read these user manual carefully before use

Contents

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 INFORMATION

■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.
Enhanced care has to be considered during the installation.
The safety chain must be prgperly hooked onto the fitting and secured to the framework.
The unit can be placed directly on the stage floor which can support 10 times of the unit's weight.

■Mounting surface and fire protection
Please do not install the fixture onto combustible surface.
Keep all combustible materials at least 20 cm away from the fixture.
Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.

■**Maximum ambient temperature** 最高环境温度
This fixture is suitable for indoor use and wet locations. Do not immerse in water.

■**Protection against electrical shock**
Connection must be made to a power supply system fitted with efficient earthing (**Class I** appliance according to standard EN 60598-1).
It is,moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

■**Connection to mains supply**
The double insulation between the LV power supply and the control conductor on the fixture.
Connection to the electricity mains must be carried out by a qualified electrical installer.
Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.
This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.
Don't use the power cable when the insulation is damaged.
It must be the manufacturer or distributor or the professional person to change the damaged power cable in order to avoid any dangerous.

■**Temperature of the external surface**

tc 80℃

The maximun temperature that can be reached on the external surface of the fitting, in a thermally steady state,is 80℃ 。
Avoid contact bypersons and materials.
Allow the fixture to cool for at least 5 minutes before handling.

■**Maintenance**

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.

■**The light source**

The light source in this fixture shall be replaced by the manufacturer or its service agent or similar qualification.
Always disconnect from mains before replacing the light.

■**Protection against explosion**

The protection screen, lens or ultraviolet screen on the lamp can be damaged to the degree of failure if visible damage, such as a crack or deep mark, should be replaced。
Avoid any inflammable liquids, water or metal objects entering the unit. Once it happen, cut off the mains power immediately.

■**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.
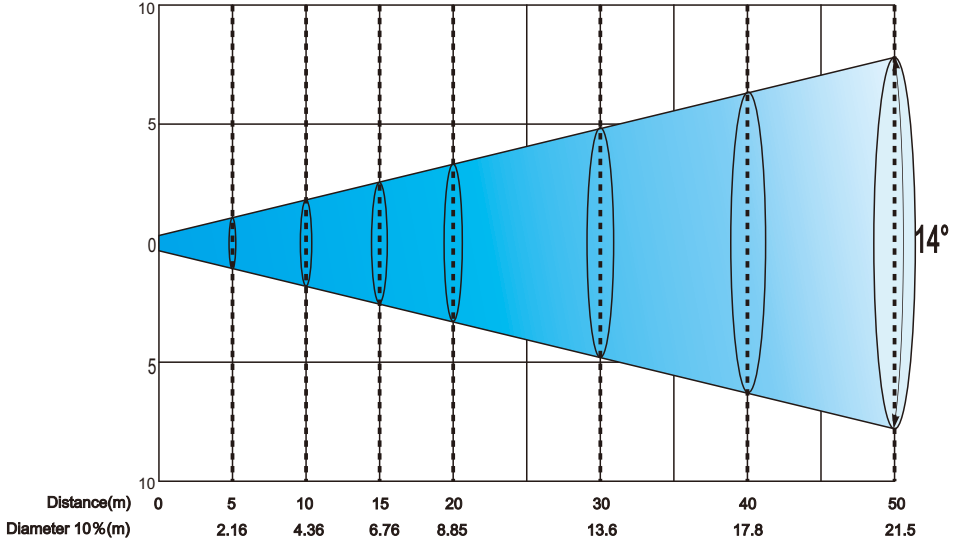
The products referred to in this manual conform to the European Community Directives to which they are subject:
Low Voltage 2014/35/EU
Electromagnetic Compatibility 2014/30/EU
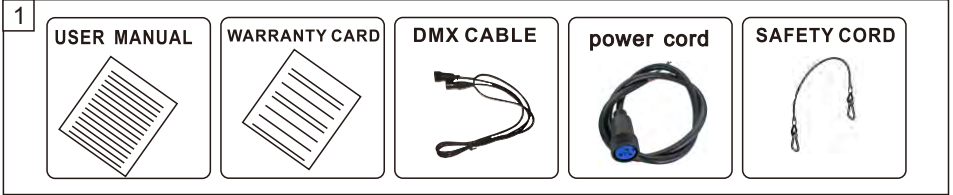
TECHNICAL INFORMATION

- **Power supplies available**：100-240V ~， 50/60 Hz
- **Rated power**：507W   PF：0.96
- **DMX Connector** ：IP66 waterproof signal line.
- **Power Connector**：IP66 waterproof Power input line.
- **Light source**：LUMILEDS 36×15W RGBL（Red、Green、Blue、Lime）LED
- **Average life**：30000h
- **Luminous flux of light source**：20758 lm
- **Luminaire flux**：17921 lm
- **Lens Angle**：6°
- **Material of lens**：PMMA
- **Beam Angle**：standard 14°，optional 25° and 45°
- **Vertical tilt Angle**：±90°
- **CCT**：2500K -7000K
- **CRI**：Ra ≥75
- **Color**：
    RGBL macro color system. soft and no flicker,Single ring can be controlled separateiy, fast marco color system.
- **Strobe**：1-30 times/second electronic strobe and random strobe.
- **Dimmer**：16Bit，0-100％The linear dimming，provides four dimming options.
- **Control Mode**：DMX512，RDM，Stand-alone mode ，Wireless DMX512（optional).
- **Channel**：Standard channel:8CH;
    channel: 24CH、20CH、16CH、1CH、3CH、4CH1、4CH2、5CH、7CH.
- **Display panel**：OLED black and white display.
- **Built-in program**：yes
- **Intelligent temperature control**：yes
- **Software upgrade**：Update via DMX link Channel.
- **RDM**：two-way transmission of RDM data.
- **Data connection**：3-core waterproof signal transfer input line/output line
    (5-core waterproof line connector is optional).
    Maximum number of signal connections dmx@ 25.
- **Outlooking**：Aluminum alloy, toughened glass .
- **Surface treatment**：Gray-green fine sand, anti - salt spray corrosion.
- **IP protection level**：IP66
- **Heat dissipation mode**：natural heat dissipation.
- **Working environment temperature**：-40 ~ +45℃
- **Light size**：916X275X397MM
- **Packing Size**（1sets）：1000X390X370
    N.W.：31.5Kg ，G.W.：44Kg
- **Flycase Size**（1sets）：1025X360X525MM
    N.W.：31.5Kg ，G.W.：52.9Kg

IPL3615 Distance, spot diameter and illumination diagram

14° Lux(fc)							
R	2600(242)	648(60.3)	293(27.2)	165(15.3)	75(7)	43(4)	32(3)
G	4000(378)	1005(93.4)	460(42.8)	255(23.7)	110(10.2)	65(6)	42(3.9)
B	583(54)	148(13.8)	68(6.3)	38(3.5)	17.3(1.6)	9.8(0.9)	6.3(0.6)
L	5530(514)	1340(125)	625(58.1)	319(29.7)	152(14.1)	88.5(8.2)	58(5.4)
RBGL	12470(1159)	3150(293)	1450(135)	765(71.1)	352(32.8)	200(18.6)	127(11.8)

14°

Distance(m)	0	5	10	15	20	30	40	50
Diameter 10%(m)		2.16	4.36	6.76	8.85	13.6	17.8	21.5

ATTACHMENT AND BODY SIZE

| 1 | USER MANUAL | WARRANTY CARD | DMX CABLE | power cord | SAFETY CORD |

Attachment contents- Fig. 1

| 2 |

397

916

275

345

275

916

Body Size---Fig 2

3

L(Black/Brown)   N(White/Blue)
(Green/Yellow Green)

POWER IN
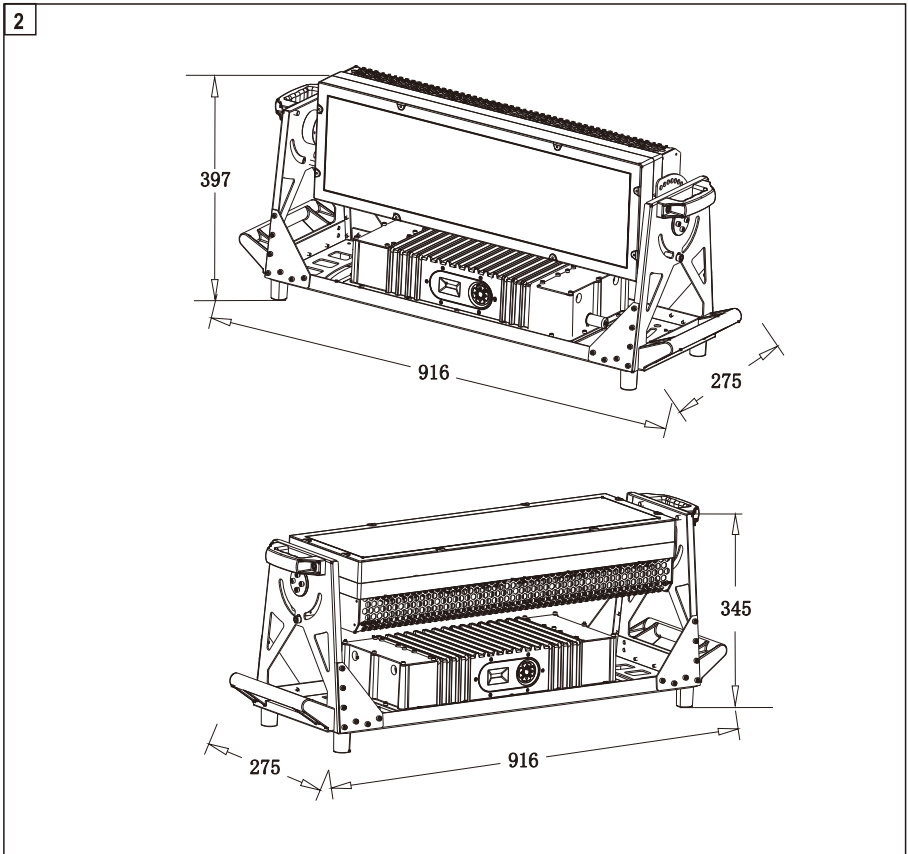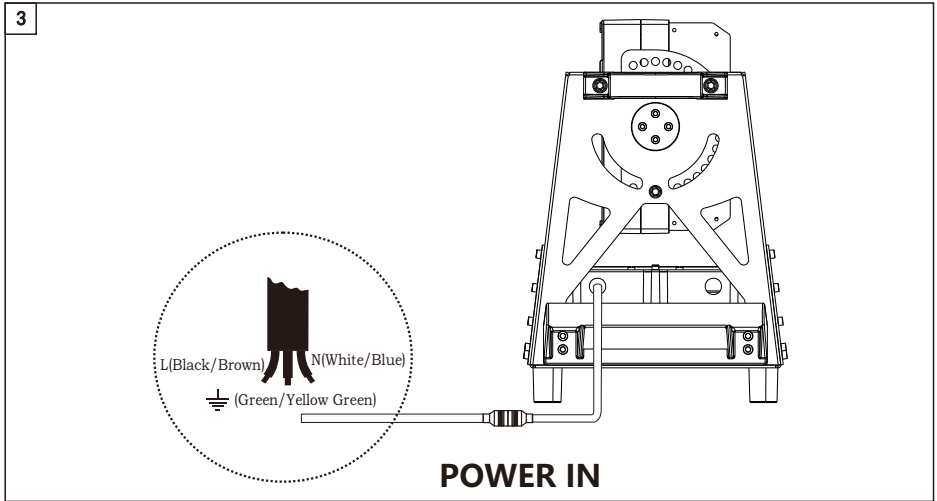
Connecting to the mains suppply ---Fig 3

Wire color-coding and power connections :

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

● connection to the eiectricty 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.

4

OUT OUT OUT

DMX IN IN IN

DMX - output
1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected

DMX-input
1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected
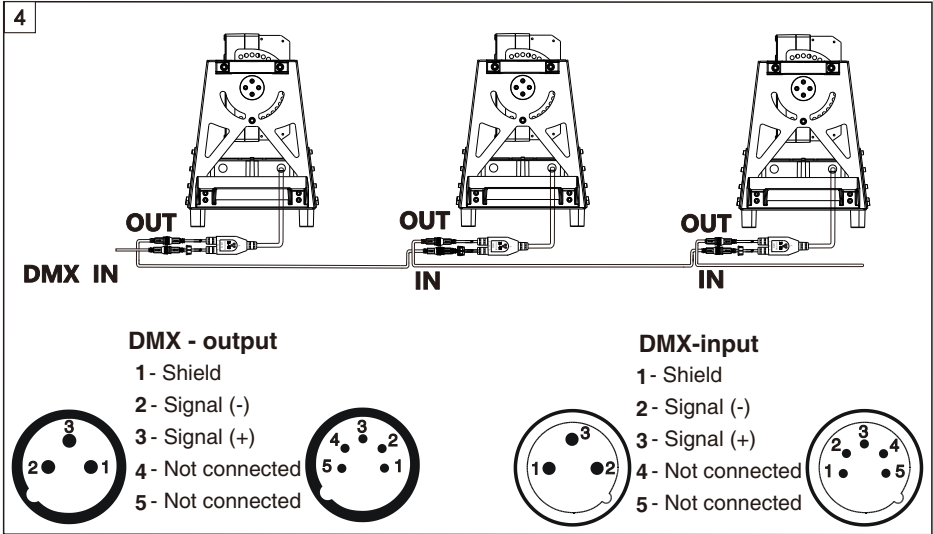
Connecting to the control signal line (DMX) - Fig. 4

◎ Please use the round 3 or 5-pin XLR plugs &sockets offered by menu facture to connect the first projector's output to the second projector' 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 pug 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 75Ω 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 dama -ge the digital control signal.Simply speaking,DMX terminator is an XLR connector with a 120Ω 1/2W resistor connected across pin 2 and 3.Which is then plugged into the output socket on the last projec -tor in the chain.Refer to the connection.

PIN3
PIN2
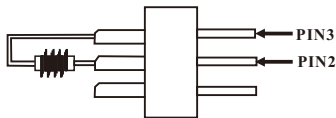
CONTROL PANEL

5
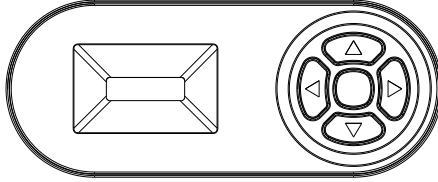
Up arrowhead : page up
Down arrowhead : page down
Left arrowhead : reduce
Right arrowhead : increase
Enter : OK function
Exit : in the choice screen

UP
ENTER
LEFT
RIGHT
DOWN
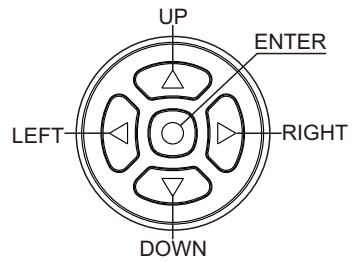
MENU SETTING

Main menu	I menu	II menu	III menu	IV menu
Dmx Set	Dmx Addr Edit	A001~AXXX		
	DMX Function	Hold (Default)		
		Black		
		Red		
		Green		
		Blue		
		Lime		
		Red&Green		
		Red&Blue		
		Red&Lime		
		Green&Blue		
		Green&Lime		
		Blue&Lime		
		Program1~12		
	Auto Run Mode	Alone (Default)		
		Master		
	Auto Run Sp	Speed = 01--99 (Default:88)		
	Addr Edit (Auto)	Yes/No		
Information	Total Time	Total Time:****(H)		
		Total LED :****(H)		
	Fixture Time	Fixture:****(H)		
		Led Open:****(H)		
	Soft Version	V1.00A...		
	Clr Fixture Time	Yes/No		
	DMX Info	Strobe.Dimmer..........		
	Box Info	Box Temp= Humidity=		
	RDM Set	RDM UID = xxxxxxxxxxxx;		
		MANU..LABEL = LIGHTSKY		
		DEVICE LABEL = SUNNY MINI		
Personal Set	Channel Mode	08CH (Default)		
		24CH		
		20CH		
		16CH		
		01CH		
		03CH		
		04CH1		

Main menu	I menu	II menu		III menu	IV menu
Personal Set	Channel Mode	04CH2			
		05CH			
		07CH			
	Standby Key Lock	On/Off　(Default: Off)			
	SelectDimmer Hz	Select 24K Hz　(Default)			
		Select 12K Hz			
		Select 6K Hz			
		Select 3K Hz			
	DimmerCurve	Linear　(Default)			
		Square			
		I-Square			
		SCurve			
Manual Control	Channel	Strobe.Dimmer..........			
Service	Calibration	Red，Green,Blue,Lim			
	Factory Set	Reset Default	Yes/No		
		ClearTotalTime	Yes/No		
		Developer	Yes/No	Temp To Power	On/Off (Default:On)
				Manual Or Dmx	On/Off (Default:On)
				LOGO Display	On/Off (Default:On)
				Reset Address	Yes/No
Language	English				
	Chinese	(Default)			
Dis Rotation	Normal	(Default)			
	Rotate 180				
Temperature	Temp1;Temp2;				

Special key function description:Press UP and DOWN buttons at the same time,keep 3 seconds,Show direction reversal;Press Left and Right buttons at the same time. Hold for 3 seconds and switch between Chinese and English

CHANNEL FUNCTION

Standard channel（ 8CH）

Channel	Value	Percentage	Function	Note
1			**Shutter**	
	0..9		No function	
	10..255		Strobe effect slow to fast	
2			**Dimmer**	
	0..255		Dimmer 0%...100%	
3			**Red**	
	0..255		0-100% Red dimmer from dark to bright	
4			**Green**	
	0..255		0-100% Green dimmer from dark to bright	
5			**Blue**	
	0..255		0-100% Blue dimmer from dark to bright	
6			**Lime**	
	0..255		0-100% Lime dimmer from dark to bright	
7			**Pixel Macro**	
	0..4		No function	
	5..28		Marcro 1	
	29..55		Marcro 2	
	53..76		Marcro 3	
	77..100		Marcro 4	
	101..124		Marcro 5	
	125..148		Marcro 6	
	149..172		Marcro 7	
	173..196		Marcro 8	
	197..220		Marcro 9	
	221..244		Marcro 10	
	245..250		Marcro 11	
	251..255		Marcro 12	
8			**Macro Speed**	
	0..255		Macro Speed from slow to fast	

Note: After successfully writing the address code in batch, the lights will turn on red, green, blue and lemon successively, and finally strobe twice, and then switch back to the original light state.

channel（ 24CH）

Channel	Value	Percentage	Function	Note
1			Shutter	
	0..9		No function	
	10..255		Strobe effect slow to fast	
2			Dimmer	
	0..255		Dimmer 0%...100%	
3			Red	
	0..255		0-100% Red dimmer from dark to bright	
4			Green	
	0..255		0-100% Green dimmer from dark to bright	
5			Blue	
	0..255		0-100% Blue dimmer from dark to bright	
6			Lime	
	0..255		0-100% Lime dimmer from dark to bright	
7			Pixel Macro	
	0..4		No function	
	5..28		Marcro 1	
	29..55		Marcro 2	
	53..76		Marcro 3	
	77..100		Marcro 4	
	101..124		Marcro 5	
	125..148		Marcro 6	
	149..172		Marcro 7	
	173..196		Marcro 8	
	197..220		Marcro 9	
	221..244		Marcro 10	
	245..250		Marcro 11	
	251..255		Marcro 12	
8			Macro Speed	
	0..255		Macro Speed from slow to fast	
9			Red in Pixel 1	
	0..255		Red in pixel 1 saturation control (0-100%)	
10			Green in Pixel 1	
	0..255		Green in pixel 1 saturation control (0-100%)	
11			Blue in Pixel 1	
	0..255		Blue in pixel 1 saturation control(0-100%)	
12			Lime in pixel 1	
	0..255		Lime in pixel 1 saturation control(0-100%)	

Channel	Value	Percentage	Function	Note
13			Red in pixel 2	
	0..255		Red in pixel 2 saturation control(0-100%)	
14			Green in pixel 2	
	0..255		Green in pixel 2 saturation control(0-100%)	
15			Blue in pixel 2	
	0..255		Blue in pixel 2 saturation control(0-100%)	
16			Lime in pixel 2	
	0..255		Lime in pixel 2 saturation control(0-100%)	
17			Red in Pixel 3	
	0..255		Red in pixel 3 saturation control (0-100%)	
18			Green in pixel 3	
	0..255		Green in pixel 3 saturation control(0-100%	
19			Blue in pixel 3	
	0..255		Blue in pixel 3 saturation control(0-100%)	
20			Lime in pixel 3	
	0..255		Lime in pixel 3 saturation control(0-100%)	
21			Red in Pixel 4	
	0..255		Red in pixel 4 saturation control (0-100%)	
22			Green in pixel 4	
	0..255		Green in pixel 4 saturation control(0-100%)	
23			Blue in pixel 4	
	0..255		Blue in pixel 4 saturation control(0-100%)	
24			Lime in pixel 4	
	0..255		Lime in pixel 4 saturation control(0-100%)	

channel（ 20CH）

Channel	Value	Percentage	Function	Note
1			**Shutter**	
	0..9		No function	
	10..255		Strobe effect slow to fast	
2			**Dimmer**	
	0..255		Dimmer 0%...100%	
3			**Pixel Macro**	
	0..4		No function	
	5..28		Marcro 1	
	29..55		Marcro 2	
	53..76		Marcro 3	
	77..100		Marcro 4	
	101..124		Marcro 5	
	125..148		Marcro 6	
	149..172		Marcro 7	
	173..196		Marcro 8	
	197..220		Marcro 9	
	221..244		Marcro 10	
	245..250		Marcro 11	
	251..255		Marcro 12	
4			**Macro Speed**	
	0..255		Macro Speed from slow to fast	
5			**Red in Pixel 1**	
	0..255		Red in pixel 1 saturation control（0-100%)	
6			**Green in Pixel 1**	
	0..255		Green in pixel 1 saturation control（0-100%)	
7			**Blue in Pixel 1**	
	0..255		Blue in pixel 1 saturation control(0-100%)	
8			**Lime in pixel 1**	
	0..255		Lime in pixel 1 saturation control(0-100%)	
9			**Red in pixel 2**	
	0..255		Red in pixel 2 saturation control(0-100%)	
10			**Green in pixel 2**	
	0..255		Green in pixel 2 saturation control(0-100%)	
11			**Blue in pixel 2**	
	0..255		Blue in pixel 2 saturation control(0-100%)	
12			**Lime in pixel 2**	
	0..255		Lime in pixel 2 saturation control(0-100%)	

Channel	Value	Percentage	Function	Note
13			Red in Pixel 3	
	0..255		Red in pixel 3 saturation control (0-100%)	
14			Green in pixel 3	
	0..255		Green in pixel 3 saturation control(0-100%	
15			Blue in pixel 3	
	0..255		Blue in pixel 3 saturation control(0-100%)	
16			Lime in pixel 3	
	0..255		Lime in pixel 3 saturation control(0-100%)	
17			Red in Pixel 4	
	0..255		Red in pixel 4 saturation control (0-100%)	
18			Green in pixel 4	
	0..255		Green in pixel 4 saturation control(0-100%)	
19			Blue in pixel 4	
	0..255		Blue in pixel 4 saturation control(0-100%)	
20			Lime in pixel 4	
	0..255		Lime in pixel 4 saturation control(0-100%)	

channel（ 16CH）

Channel	Value	Percentage	Function	Note
1			Red in Pixel 1	
	0..255		Red in pixel 1 saturation control (0-100%)	
2			Green in Pixel 1	
	0..255		Green in pixel 1 saturation control (0-100%)	
3			Blue in Pixel 1	
	0..255		Blue in pixel 1 saturation control(0-100%)	
4			Lime in pixel 1	
	0..255		Lime in pixel 1 saturation control(0-100%)	
5			Red in pixel 2	
	0..255		Red in pixel 2 saturation control(0-100%)	
6			Green in pixel 2	
	0..255		Green in pixel 2 saturation control(0-100%)	
7			Blue in pixel 2	
	0..255		Blue in pixel 2 saturation control(0-100%)	
8			Lime in pixel 2	
	0..255		Lime in pixel 2 saturation control(0-100%)	
9			Red in Pixel 3	
	0..255		Red in pixel 3 saturation control (0-100%)	
10			Green in pixel 3	
	0..255		Green in pixel 3 saturation control(0-100%	
11			Blue in pixel 3	
	0..255		Blue in pixel 3 saturation control(0-100%)	
12			Lime in pixel 3	
	0..255		Lime in pixel 3 saturation control(0-100%)	
13			Red in Pixel 4	
	0..255		Red in pixel 4 saturation control (0-100%)	
14			Green in pixel 4	
	0..255		Green in pixel 4 saturation control(0-100%)	
15			Blue in pixel 4	
	0..255		Blue in pixel 4 saturation control(0-100%)	
16			Lime in pixel 4	
	0..255		Lime in pixel 4 saturation control(0-100%)	

channel（ 1CH）

Channel	Value	Percentage	Function	Note
1			ALL Dimmer	
	0..255		Dimmer 0%...100% Control all LED	

channel（ 3CH）

Channel	Value	Percentage	Function	Note
1			Red	
	0..255		0-100% Red dimmer from dark to bright	
2			Green	
	0..255		0-100% Green dimmer from dark to bright	
3			Blue	
	0..255		0-100% Blue dimmer from dark to bright	

channel（ 4CH 1）

Channel	Value	Percentage	Function	Note
1			Dimmer	
	0..255		Dimmer 0%...100%	
2			Red	
	0..255		0-100% Red dimmer from dark to bright	
3			Green	
	0..255		0-100% Green dimmer from dark to bright	
4			Blue	
	0..255		0-100% Blue dimmer from dark to bright	

channel（ 4CH 2）

Channel	Value	Percentage	Function	Note
1			**Red**	
	0..255		0-100% Red dimmer from dark to bright	
2			**Green**	
	0..255		0-100% Green dimmer from dark to bright	
3			**Blue**	
	0..255		0-100% Blue dimmer from dark to bright	
4			**Lime**	
	0..255		0-100% Lime dimmer from dark to bright	

channel（ 5CH）

Channel	Value	Percentage	Function	Note
1			**Dimmer**	
	0..255		Dimmer 0%...100%	
2			**Red**	
	0..255		0-100% Red dimmer from dark to bright	
3			**Green**	
	0..255		0-100% Green dimmer from dark to bright	
4			**Blue**	
	0..255		0-100% Blue dimmer from dark to bright	
5			**Lime**	
	0..255		0-100% Lime dimmer from dark to bright	

channel（ 7CH）

Channel	Value	Percentage	Function	Note
1			**Shutter**	
	0..9		No function	
	10..255		Strobe effect slow to fast	
2			**Dimmer**	
	0..255		Dimmer 0%...100%	
3			**Red**	
	0..255		0-100% Red dimmer from dark to bright	
4			**Green**	
	0..255		0-100% Green dimmer from dark to bright	
5			**Blue**	
	0..255		0-100% Blue dimmer from dark to bright	
6			**Lime**	
	0..255		0-100% Lime dimmer from dark to bright	
7			**Pixel Function**	
	0..10		No function	
	11..30		Red 100%/Green Up/Blue 0%	
	31..50		Red Down/Green 100%/Blue 0%	
	51..70		Red 0 %/Green 100%/Blue Up	
	71..90		Red 0 %/Green Down/Blue 100%	
	91..110		Red Up/Green 0%/Blue 100%	
	111..130		Red 100%/Green 0%/Blue Down	
	131..150		Red 100%/Green Up/Blue Up	
	151..170		Red Down/Green Down/Blue 100%	
	171..200		Red100%/Green 100%/Blue 100%	
	201..210		White 3200K	
	211..220		White 4200K	
	221..230		White 5600K	
	231..240		White 6500K	
	241..250		White 8000K	
	251..255		White 10000K	

CIRCUIT CONNECTING DIAGRAM
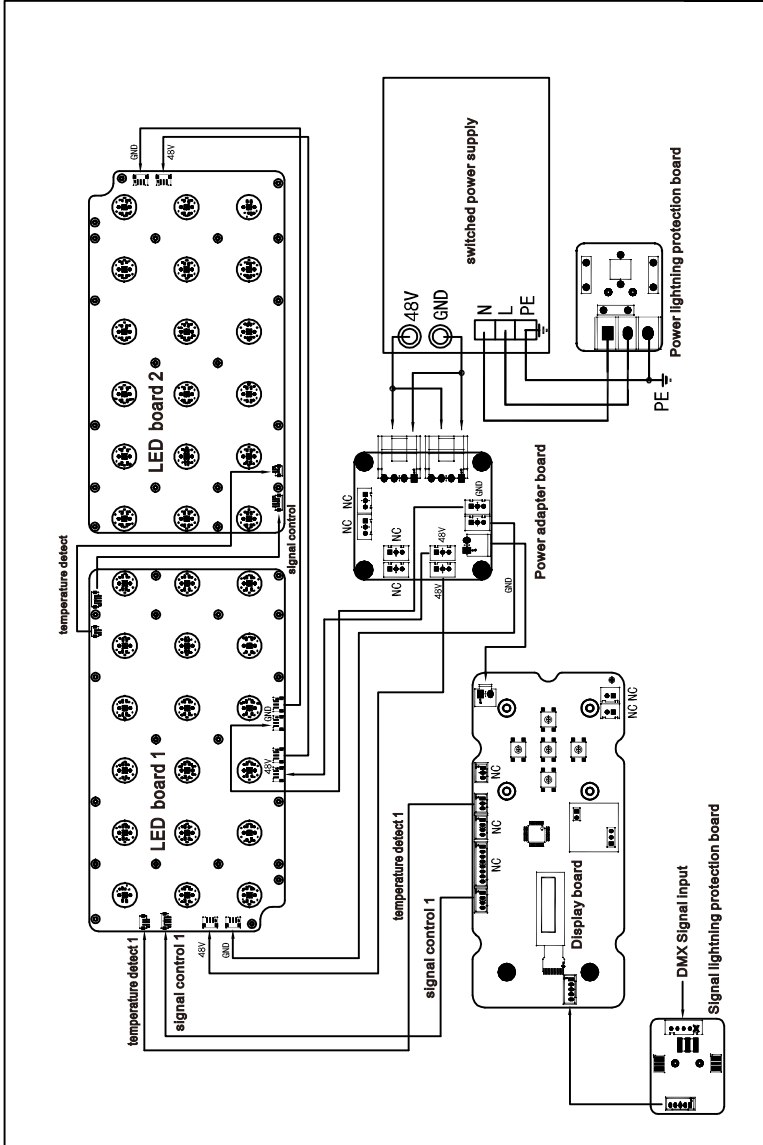
CLEANING AND MAINTENANCES

■1.In order to ensure the projector 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 projector.

■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 light.
Please let the parts cool down 10 minute at least then begin to install.

■4.Please inspect the lens or other moving parts timing and keep them clear and static.
If find anything damaged or looseness must change a lamp or fix the lamp in order to
avoid the accident.
Please check the machenical parts is jamging.After cleaning,please add some
temperature -durable juice.

■5.The light use the strong cool system.It iseasy for the dirty to be colletced.Please do
clear the hot-sak one time two week at least.

■6. After you use the light,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.

TROUBESHOOTING

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 light.

■ **LED off / LED** :
1. Please check if install the suitable voltage.
2. Please check whether the led will reach the end of their life can explode; please replace a same description led.
3. Please check if the power supply is enough.
4. Please check whether the DMX 512 controller pass the "turn on" order.

■ **The light couldn't accept the control order:**
1. Please check the start code address and the function option are correct.
2. Please check whether the communicate control cable is on good connection or the cable is too long or interrupt.
3. Please check the control system is not valid, check the signal amplifier of chain connected is valid.
4. Please check whether the communicate cable is too long or the other equipment is mutually conjugate.
5. Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.
6. Add the signal amplify isolator.
7. Signal cable is used the excellent screening doublet (Resistance 75 OHM) .
8. The end of the light end and the end resistance.

■ **The light can't move:**
1. Please check if the power supply is suitable for the light voltage data.
2. Please check the light if they are deformation, inside parts is broken, become wet etc will lead the loose contact.
3. Please check the if the iniside lead wire and the connector is loose.
4. Please check the electric parts(such as the transformer,PCB board,contrller) is short-circuit or burn down.

■
On working,the pan &tilt couldn't work normally:
1. Please check according to the above step by step.
2. Please check the belt of the X.Y is broken.
3. Please check the X/Y direction data to the receiver is damage.
4. Re-projector reset.

DUTY EXONERATIVE AND COPYRIGHT PROTECTION

◇The lamp belongs to consumption products that is not guarantee to keep it in good repair.

◇Any products broken that didn't according to the instruction is not guarantee to keep it in good repair.

◇The commentary for all the instruction belongs to the supplier in final.

◇No authorize can't copy.

◇The information in this manual may be changed in the future,the company reserve the right to change
  the data without any advise.