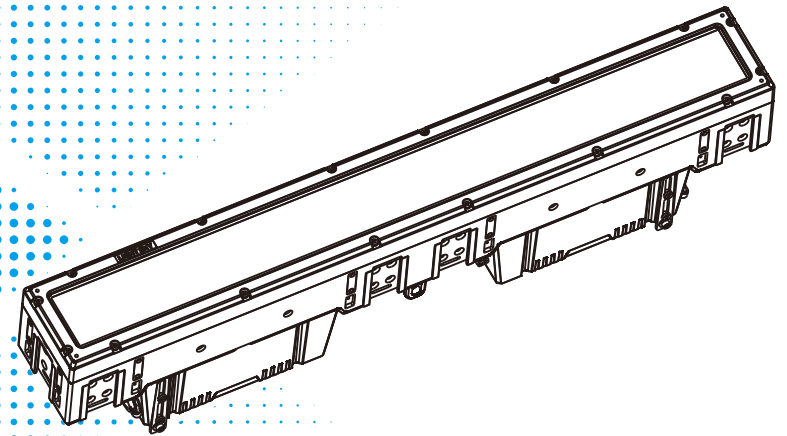


LIGHT SKY

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SOUSA User Manual

Please read the instruction carefully before use

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

- Please keep in mind that this product, like other products of the company, adheres to the concept of people-oriented design and manufacture, and takes product quality as the foundation.
- We put the interests of customers first, and do our best to meet customer requirements.
- Please read this instruction manual carefully and keep it for future reference. In the case of fully understanding the product information, strictly abide by theUse the instruction manual to ensure that the product is installed, used and serviced correctly and safely.
- Our company is not responsible for any damage to lamps or other performance due to personal failure to follow the instructions during installation, use and maintenance.responsibility.
- Our company reserves the right to modify the manual at any time and without prior notice.

1.Safety Instructions



WARNING

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this manual.

The following symbols are used to identify important safety information on the product and in this manual:

WARNING! Safety hazard. Risk of severe injury or death.	WARNING! Refer to manual before installing, powering or servicing.	WARNING! Hazardous voltage. Risk of severe or lethal electric shock.	WARNING! Fire hazard.	WARNING! Burn hazard. Hot surface, not touch. Do not touch.	WARNING! Risk of eye injury. Safety glasses must be worn.	WARNING! Risk of hand injury. Safety gloves must be worn.	WARNING! Avoid direct eye contact.
DANGER! Applies only to luminaires directly mounted on surfaces of non-combustible materials	DANGER! Do not discard Trash can	DANGER! Mark of ground	DANGER! Replace all shatter shields	DANGER! Take a short distance from the object to be photographed (meters)	DANGER! Rated maximum ambient temperature	DANGER! Do not point the lens towards the sun or strong light	DANGER! Operation not allowed during runtime

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

— Unpack and check carefully to ensure that there is no transportation damage before using the unit.

— This product is for indoor use only. Use only in a dry location.

— Do install and operate by qualified operator.

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

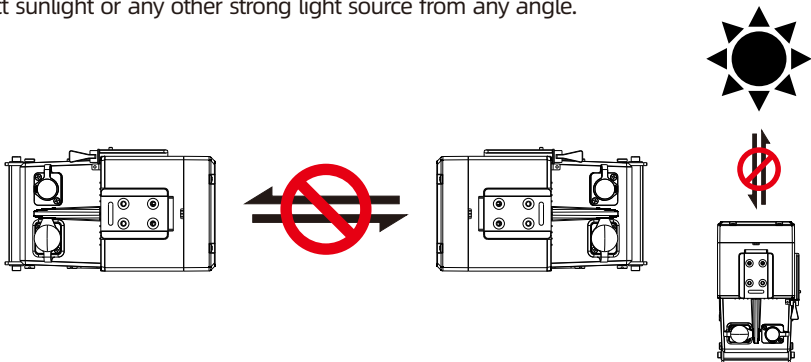
— Do not allow children to operate the fixture.

— Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.

— The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.

— Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.

- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature Ta: -20°C. Maximum ambient temperature Ta: 45°C.
- Do not operate this product at a lower or higher temperature.
- Do not connect the device to any dimmer pack.
- When the lamp is running, do not place combustible objects next to it. The shortest distance between the device and inflammable and explosive objects or materials is 1 m.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 65°C. Do not touch the housing bare-handed during its operation.
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- Do not operate in a dirty or dusty environment. Do clean the fixture regularly.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The distance between the luminaire and the irradiated surface shall be greater than 3 meters.
- Do not shine light directly into another fixture's lens. Intense beam can damage internal components.
- Direct sunlight or any other strong light beam penetrating the front lens of the luminaire can cause severe internal damage. During unpacking, installation, operation, and extended idle periods outdoors, it is prohibited to expose the front lens of the luminaire to beams of direct sunlight or any other strong light source from any angle.



- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

- Do not open the housing as there are no user serviceable parts inside.
- Do not attempt to operate this unit if it becomes damaged. Do not attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- Do use the original packaging if the device is to be transported.
- Avoid direct eye exposure to the light source while the product is on.
- Do not operate this product if you see damage on the housing, shields, or cables.
Have the damaged parts replaced by an authorized technician at once.

Installation:

The luminaire must be securely fastened to the quick-lock hook with screws to prevent vibration or slipping during operation. The supporting structure must be able to withstand 6 times the weight of the luminaire. Additionally, a safety cable must be installed that can endure 30 free-fall drops from 300mm without failure. Installation should only be performed by qualified professionals, and the luminaire must be mounted in an area inaccessible to unauthorized personnel or away from pedestrian traffic.

2. Technical Specifications

OPTICS

- Light source: 160 × 5W CW+800 × 0.5W RGB
- Beam angle: 74 °
- Spot angle: 114 °
- Color rendering index: Ra ≥ 71
- Color temperature: 2500K-10000K
- Luminous flux RGB: 14391 lm
- Luminous flux W: 28895 lm
- Illuminance RGB: 278 lx @ 5 meters W: 850 lx @ 5 m
- Average lifespan of light source: ≥ 20000h

EFFECT

- Color Mixing System: A uniform RGB color mixing system, where each color can be individually controlled to achieve multiple effects.
- Intelligent atomization: Linear adjustment of atomization function to enhance color mixing effect (optional).
- Effect macros: static effect macros and dynamic effect macros functions.
- Dimming: Electronic dimming, providing four dimming curves.
- Strobe: 1-25Hz electronic flicker and random flicker.

CONTROL AND PROGRAMMING

- Control Channels: Standard 21CH, 15CH, Extended 158CH (see channel table for details).
- Control Protocols: Standard DMX512 protocol, RDM protocol, Art-Net protocol, sACN protocol.
- Data Connection: 3-pin or 5-pin signal input/output, RJ45 Ethernet port input/output
- Display: LCD screen

SOFTWARE

- Upgrade through DMX.
- Intelligent temperature control ensures LED lifespan.

POWER SUPPLY AND POWER

- Input voltage: AC 100-240V 50/60Hz
- Rated power: 790W
- Maximum flicker power: 1200W
- Power factor: 0.97
- Maximum current of the lamp: 8.1A/100V 3.6A/220V

DIMENSIONS & WEIGHT

- Product size: 867 × 125 × 213mm
- N.W.: 14.0kg
- Carton packaging (Default): 955 × 215 × 345mm G.W.: 17.4kg

OPTIONAL ACCESSORIES / PACKAGING

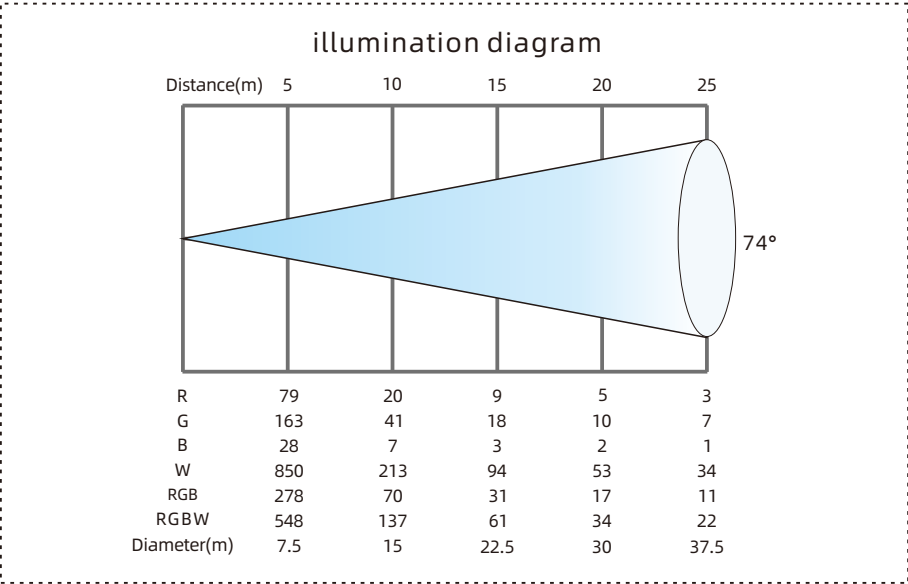
- Hook (with Logo): Code: C0499990075 (Suitable for pipes with a diameter of 40-60 mm)
- Hook (Neutral): Code: C0499990021 (Suitable for pipes with a diameter of 40-60 mm)
- Flight Size (4-units):Excluding hooks & quick locks: 920×790×460 mm , G.W. 89.3 kg
- Flight Size (4-units):Including hooks & quick locks: 920×830×460 mm , G.W. 92.0 kg

OTHER

- Protection level: IP66
- Working environment: -20 °C~45 °C
- Maximum surface temperature of lamp body: 65 °C
- Using iM Lock ™ Mortise and tenon locking connection structure.

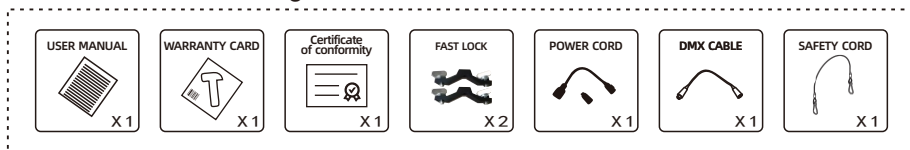
APPROVALS

- The product implementation standard: IEC 60598-1、IEC 60598-2-17
- Approved certifications: CE、RoHs
- The product complies with the following EU directives:
Low Voltage Directive 2014/35/EU . EMC Directive 2014/30/EU

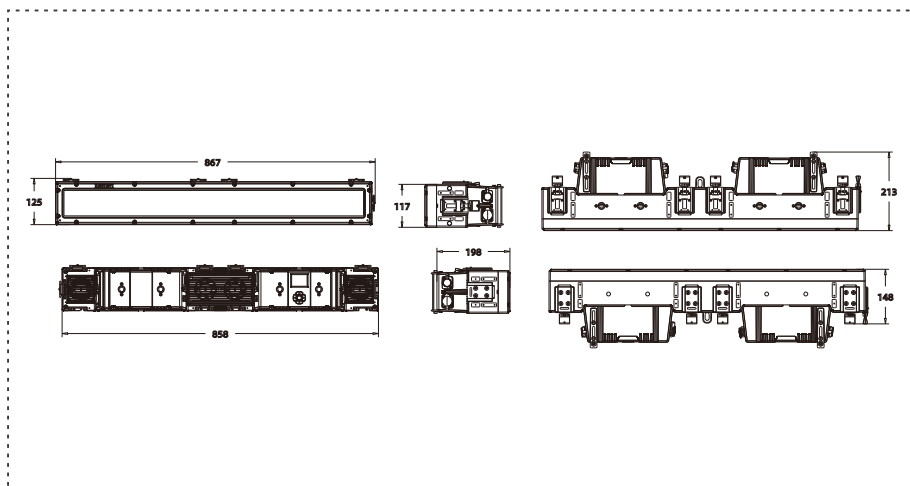


2.1.Attachment And Size

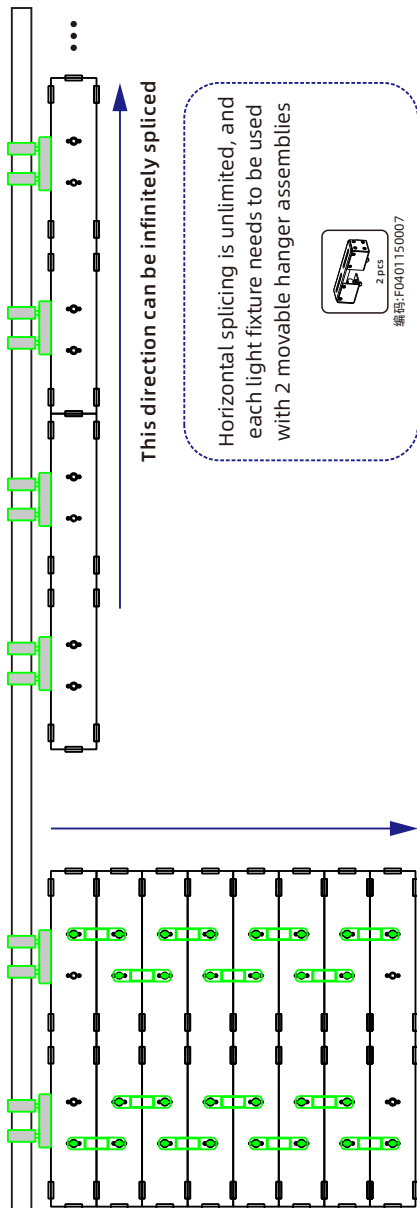
Attachment contents-Fig.1



Size-Fig.2 (Unit:mm)



Splicing Guide Diagram 1



Up to 8 units can be spliced in this direction

Up to 8 units can be assembled for lifting and load-bearing, and 8 lighting fixtures need to be used in conjunction with 2 movable hanger assemblies and 14 connecting bracket components D



2 pcs

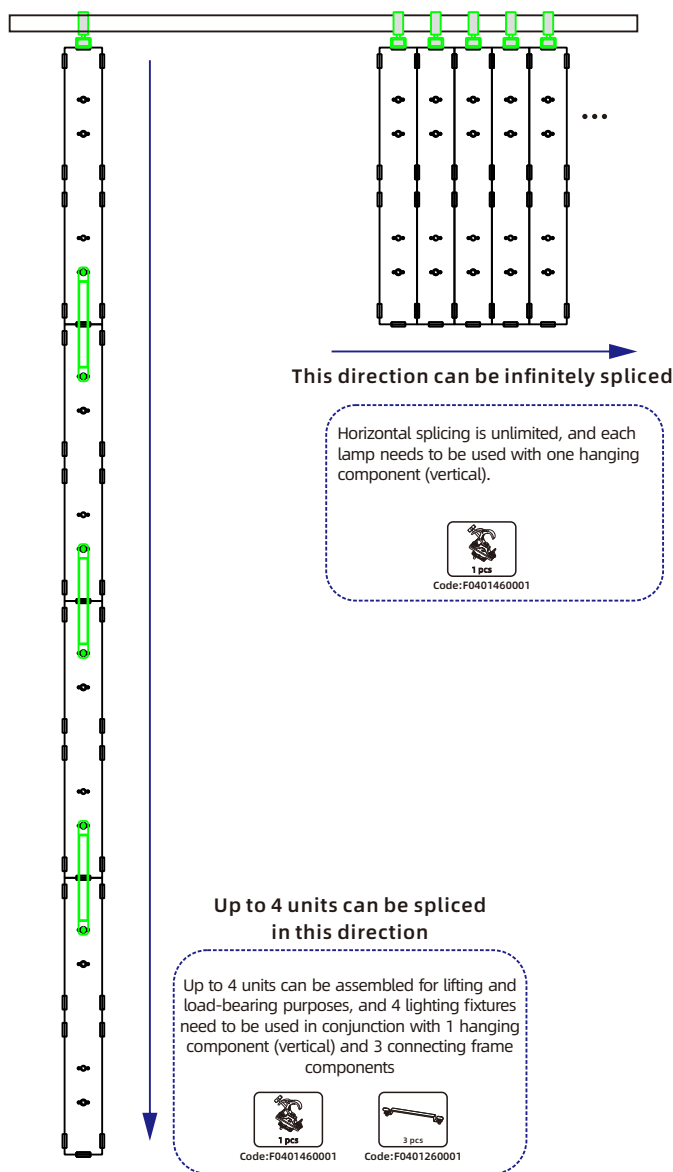
Code: F0401150007



14 pcs

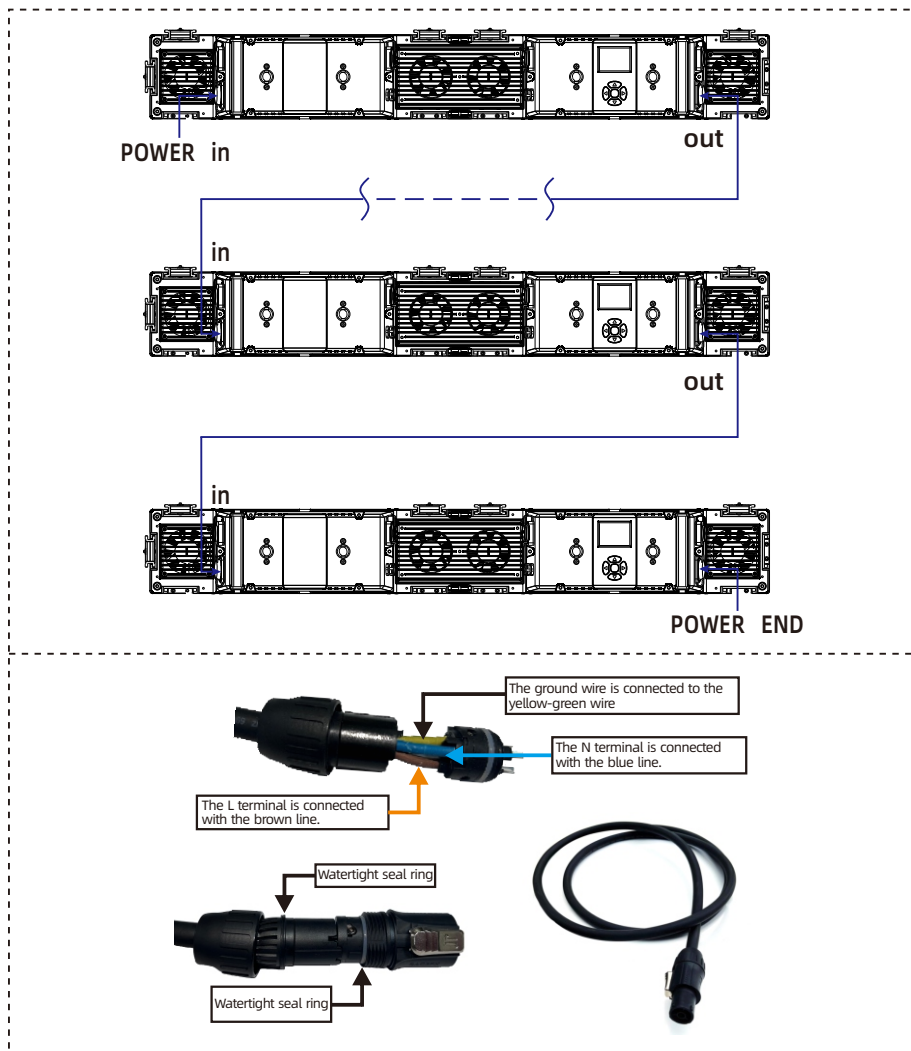
Code: F0401260004

Splicing Guide Diagram 2



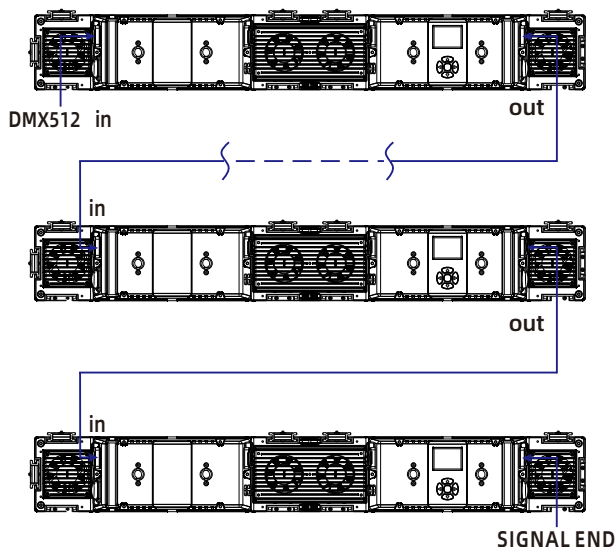
3.Connection and control

3.1.Power supply connection



- The bus connecting the power supply must be installed by a qualified professional technician.
- After completing all the above operations and ensuring that it is installed, you can power on the lamp to operate.

3.2.DMX 512 Connection



DMX-input



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



DMX - output

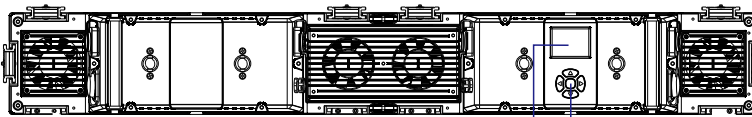


- 1- Shield
- 2- Signal (-)
- 3- Signal (+)
- 4- Not connected
- 5- Not connected



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a $120\ \Omega$ 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.
 - 3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
 - 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

3.3.Control Panel



1.Display: To show the various menus and the selected function.

2.Button:

OK	OK confirmation key
▲	UP
▼	DOWN
◀	To the left
▶	To the right

4.How To Set The Unit

4.1.Main Function

The main functions are as follows:

Main menu	I menu	II menu	III menu	Note
DMX Setting	Address	1-512		
	Channel	21CH (Default)/ 158CH /15CH		
	State	Black (Default)		
		Hold		
	InputMode	DMX (Default) ARTNET sACN		This menu can only be displayed when the Art-Net module is connected.
	DmxAddressLock	OFF ON (Default)		
Information	Time	Total Power Time		
		Power Time		
		Total Light Time		
		Light time		
	Temperature	Head Temp		
		Head Temp2		
	Fan Information	HeadFanVol1		
		HeadFanVol2		
		HeadFan1Sp		
		HeadFan2Sp		
		HeadFan3Sp		
		HeadFan4Sp		
		HeadFan5Sp		
		HeadFan6Sp		
	Fixture Status	1.MCU(LED) ***		
		2.MCU(Fan) ***		
		3.HeadFan1 ***		
		4.HeadFan2 ***		
		5.HeadFan3 ***		
		6.HeadFan4 ***		
		7.HeadFan5 ***		
		8.HeadFan6 ***		
	RDM UID	3888: xxxxxxxx		
	DMX Live	DMX		
	Software	1.Display Ver. Vxxx		
		2.LED Ver. Vxxx		
		3.Fan Ver. Vxxx		
		4.ETH Ver. Vxxx		
Personal	Dimmer&Fan Setting	Dimmer Freq.	1800Hz	
			3600Hz (Default)	
			7200Hz	
			25000Hz	
		Fan Mode	HighOutput	
			Standard (Default)	
			Silent	
		Dimmer Mode	Normal (Default)	
			RGB Mode	
	Display Setting	Led Invert	WhiteMode	
			OFF (Default)	
			ON	
		Language	EN (Default)	
			ZH	
		Dis. Backlight	OFF (Default)	
			ON	
		Dis. Direction	Forward (Default)	
			Reverse	
		Dis. Blink	OFF	
			ON (Default)	

Main menu	I menu	II menu	III menu	Note
	Ethernet Setting	IP Address	*** ***.***	This menu can only be displayed when the Art-Net module is connected.
		Mask Address	*** ***.***	
		Universe Address	0-32767	
		sACN Universe Address	1-63999	
		DHCP	OFF (Default) ON	
		Ethernet To DMX	OFF (Default)	
			ON	
Manual	Channel	1.Dimmer *** ...		
Service	Calibrate	1.Frost ***		
	Factory Reset	NO / YES	Password: 1111	
	Reset Timers	1.Total Power Time	NO / YES	
		2.Total Light Time	NO / YES	
		1.Power Time	NO / YES	
		2.Light Time	NO / YES	
	Developer			
Language				
Test	Test All			
Display Rotate				

4.2.Address Setting

Enter MENU, select the DMX setting function, select the address code setting, press the OK button to confirm, the current DMX address will be displayed on the display. Use the up/down buttons to select addresses 001~512, and press the OK button to save. Press the OK button to return to the previous menu.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
21 CH	1	22	43	64
158 CH	1	159	317	475
15 CH	1	16	31	46

4.3.DMX 512 Configuration

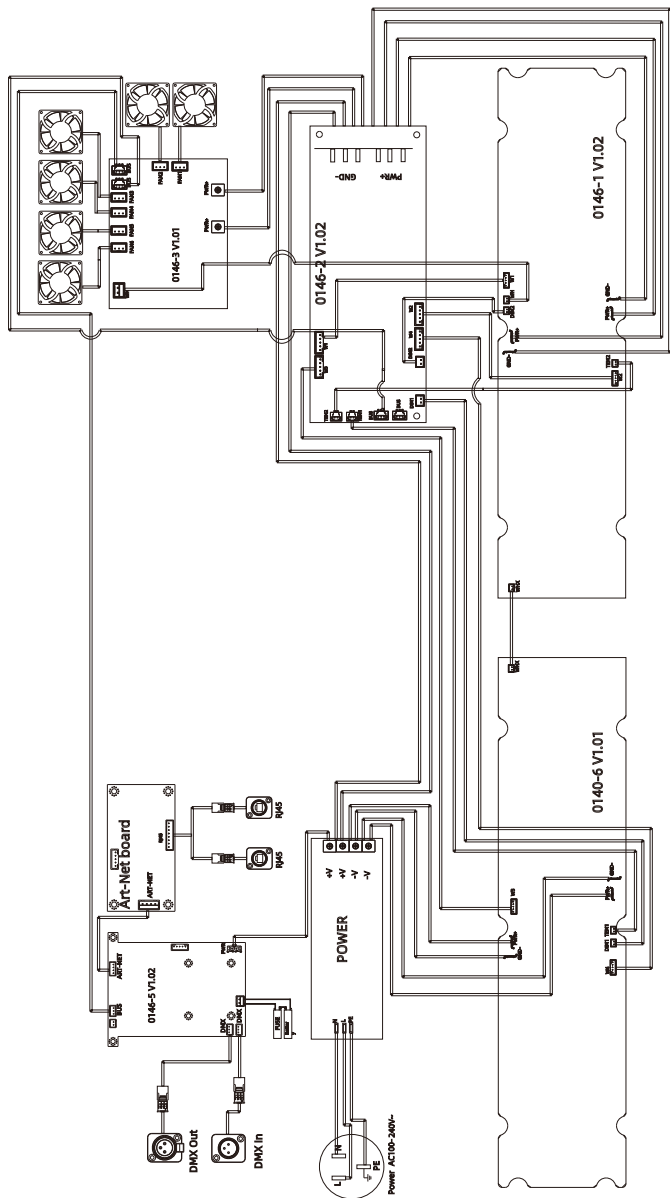
21 Channel	158 Channel	DMX	Function	Note
1	1	0-255	Dimmer	
2	2	0-255	Dimmer Fine	
3	3	0-9 10-49 50-89 90-119 120-179 180-249 250-255	Strobe Strobe open Slow closing, Fast opening, slow → fast Fast closing, Slow opening, Slow → Fast Slow closing, Slow open, Slow → Fast Random strobe, Slow → Fast Synchronous strobe, slow → fast Strobe open	0.5-12HZ 0.5-12HZ 0.5-12HZ 1-25HZ 1-25HZ
4	4	0-255	RGB Dimmer	
5	\	0-255	Red 0 to 100%	
6	\	0-255	Green 0 to 100%	
7	\	0-255	Blue 0 to 100%	
\	5	0-255	Red1	
\	6	0-255	Green1	
\	7	0-255	Blue1	
\	...	...	...	
\	122	0-255	Red40	
\	123	0-255	Green40	
\	124	0-255	Blue40	
8	125	0-9 10-255	EffectMacro No function Effect	
9	126	0-125 126-129 130-255	EffectSpeed CW fast to slow Stop CCW slow to fast	
10	127	0-2 3-5 6-8 9-11 12-14 15-134 135-255	EffectFade No function Step Curve1 Step Curve2 Step Curve3 Step Curve4 Fade1 Fade2	
11	128	0-255	Effect Back.Dim. The light output increases linearly from off to maximum brightness	
12	129	0-255	Effect Back.Red Red increases linearly from no light to maximum intensity	
13	130	0-255	Effect Back.Green Green increases linearly from no light to maximum intensity	
14	131	0-255	Effect Back.Blue Blue increases linearly from no light to maximum intensity	

21 Channel	158 Channel	DMX	Function	Note
15	132	0-255	WhiteDimmer	
16	133	0-255 0-9 10-49 50-89 90-119 120-179 180-249 250-251 252-255	WhiteStrobe Strobe open Slow closing, Fast opening, slow → fast Fast closing, Slow opening, Slow → Fast Slow closing, Slow open, Slow → Fast Random strobe, Slow → Fast Synchronous strobe, slow → fast Shift function to RGB strobe ch Strobe open	0.5-12HZ 0.5-12HZ 0.5-12HZ 1-25HZ 1-25HZ
\	134	0-255	White1	
\	...	...	...	
\	153	0-255	White20	
17	154	0-9 10-99 100-199 200-255	WhiteEffectMacro No function Static Effect Chase Effect No function	
18	155	0-125 126-129 130-255	WhiteEffectSpeed CW fast to slow Stop CCW slow to fast	
19	156	0-2 3-5 6-8 9-11 12-14 15-134 135-255	WhiteEffectFade No function Step Curve1 Step Curve2 Step Curve3 Step Curve4 Fade1 Fade2	
20	157	0-255	Frost	
21	158	0-49 50-59 60-69 70-79 80-84 85-89 90-94 95-99 100-169 170-177 178-185 186-193 194-199 200-255	Function(Hold 3s) No function Fan Standard mode Fan HighOutput mode Fan Silent mode Dis.Blink off Dis.Blink on LED Invert off LED Invert on No function LED frequency 1.8kHz LED frequency 3.6kHz LED frequency 7.2kHz LED frequency 25kHz No function	

15 CH	DMX	Function	备注
1	0-255	Dimmer	
2	0-255	No function	
3	0-255	No function	
4	0-255	No function	
5	0-255	WhiteDimmer	
6	0-255	WhiteStrobe	
	0-9	Strobe open	
	10-49	Slow closing , Fast opening , slow → fast	0.5-12HZ
	50-89	Fast closing , Slow opening , Slow → Fast	0.5-12HZ
	90-119	Slow closing , Slow open , Slow → Fast	0.5-12HZ
	120-179	Random strobe,Slow → Fast	1-25HZ
	180-249	Synchronous strobe,slow → fast	1-25HZ
	250-251	Shift function to RGB strobe ch	
	252-255	Strobe open	
7	0-255	White Strobe Duration	10-660ms
8	0-255	RGB Dimmer	
9		Strobe	
	0-9	Strobe open	
	10-49	Slow closing , Fast opening , slow → fast	0.5-12HZ
	50-89	Fast closing , Slow opening , Slow → Fast	0.5-12HZ
	90-119	Slow closing , Slow open , Slow → Fast	0.5-12HZ
	120-179	Random strobe,Slow → Fast	1-25HZ
	180-249	Synchronous strobe,slow → fast	1-25HZ
	250-255	Strobe open	
10	0-255	Strobe Duration	10-660ms
11	0-255	Red 0 to 100%	
12	0-255	Green 0 to 100%	
13	0-255	Blue 0 to 100%	
		CTC	
	0-2	No function	
	3-14	10000K	
	15-26	9500K	
	27-38	9000K	

15 CH	DMX	Function	备注
14	39-50	8500K	
	51-62	8000K	
	63-74	7500K	
	75-86	7000K	
	87-98	6500K	
	99-110	6000K	
	111-122	5600K	
	123-134	5300K	
	135-146	5000K	
	147-158	4500K	
	159-170	4000K	
	171-182	3800K	
	183-194	3500K	
	195-206	3200K	
	207-218	3000K	
	219-230	2700K	
	231-255	2500K	
15		Function(Hold 3s)	
	0-49	No function	
	50-59	FanStandard mode	
	60-69	FanHighOutput mode	
	70-79	FanSilentmode	
	80-84	Dis.Blinloff	
	85-89	Dis.Blinlon	
	90-94	LED Invert off	
	95-99	LED Invert on	
	100-169	No function	
	170-177	LEDfrequency1.8kHz	
	178-185	LEDfrequency3.6kHz	
	186-193	LEDfrequency7.2kHz	
	194-199	LEDfrequency25kHz	
	200-255	No function	

5.Electrical Connection Diagram



6. Troubleshooting

The following are common faults of lamps and corresponding solutions. Faults that cannot be repaired by yourself should be handled by professionally qualified personnel. Disconnect the power supply to the lamp during maintenance!

- The light source is not bright
 - Check that a suitable light source is installed for the luminaire.
 - Check whether the power supply connection of the lamp or the control switch is in poor contact.
 - Check whether the light source has reached the end of its service life or is damaged, and replace it with a high-quality light source of the same specification.
 - Measure whether the power supply is insufficient.
 - Check whether the light source has not cooled down completely due to abnormal operation. Let the lamp cool down for more than 15 minutes to allow the light source to cool down. After returning to the normal start-up range, turn the power on again and it can be used normally.
 - Check whether the DMX512 controller sends a command to turn on the light source.
 - Check whether the light source and trigger circuit are disconnected or defective.
 - Check whether the wiring terminals on the internal trigger are in poor contact and tighten the plug.
 - Check the "Fan Speed and Voltage" in the "Basic Information" menu to see if the speed of FAN1/FAN2/FAN3 is above 500RPN. If it is below 500RPM, the light source will not light up. Replace the fan with the same specification.
 - Check whether the over-temperature protection temperature switch inside the lamp is damaged. Go to the menu "Basic Information" and select "Equipment Temperature" to check - whether the temperature measuring plate shows that the temperature is too high or there is no temperature display.
- The beam appears dim and uneven
 - The light source may have reached the end of its service life and does not emit enough light. Replace it with a light source of the same specification.
 - Check whether there is dust accumulated in the optical part and clean it.
 - Measure whether the power supply is insufficient.
 - Finely adjust the screw device used to change the height of the lamp until the ideal light is achieved. Enter the menu "Service Options" and select "Calibration" to enter color and pattern adjustment, which can be adjusted to the center.
- The projected image is blurry
 - Check whether the DMX512 controller channel value corresponding to the electronic focus system is suitable for the current projection distance.
 - Check whether the mechanical part of the focusing system is stuck, remove the dust and add antifreeze and temperature-resistant lubricating oil.
- The light source of the lamp works intermittently
 - Check whether the fan is running normally or is blocked by dust and paper debris.
 - Check whether the inlet and outlet cooling air vents are blocked by dust.
 - Check whether the lamp has reached the end of its service life.

- Check whether the power supply is insufficient, and whether the power switch and wiring are in poor contact or aging.
- Check whether the over-temperature protection temperature switch inside the lamp is damaged.
- Although it emits light, the lamp does not accept instructions from the controller
- Check whether the digital start address value and function options of the lamp are correct.
- Check whether the connection of the communication control line is correct. The communication line is too long or has been interrupted.
- Check whether the control equipment fails and whether the signal amplifier connected in series fails.
- Check whether the communication line is too long or if other devices interfere with each other.
- Optimize wiring, shorten the length of control signal lines, and route high-voltage and low-voltage lines separately
- Add signal amplifier isolator.
- The signal line is made of high-quality shielded twisted pair (impedance characteristic is 75Ω), and the signal terminal resistor is connected at the end of the lamp.
- Check that the circuit board communication IC or CPU is burned out because the bulb performs an abnormal operation when it is not completely cooled, causing the instantaneous ultra-high voltage leakage generated by the trigger, and replace the PCB board.
- The lamp cannot be started
- Check whether the power supply parameters match the lamps.
- Check whether the fuse at the light fixture's power input is blown.
- Check that the lamp has poor contact or falls off due to extrusion deformation, vibration of internal parts, moisture, etc. during long-distance transportation.
- Check whether the internal wires and connectors of the lamp are desoldered or loose.
- Check whether the electrical components of the lamp (such as power switch, transformer, ballast, capacitor, varistor, filter, power supply PCB board, motor control PCB board, etc.) are loose, short-circuited, burned out, etc.
- Some functions of the lamp cannot accept controller instructions
- Check whether the control device sends correct action instructions for these functions.
- Check whether the mechanical parts corresponding to these functions are loose or deformed.
- Check whether the motor sockets corresponding to these functions are loose or the corresponding driver chips are burned out.
- Check whether the motor wires corresponding to these functions are broken at the corners.
- Check whether the motors corresponding to these functions are damaged.

7. Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

- A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- Always dry the parts carefully.
- Clean the external optical lens at least every 20 days.



CAUTION ! ! !

Disconnect from mains before starting maintenance operation.

8. Duty exonerative and copyright protection

- Light source belongs to consumption products, not within the scope of warranty.
- The manufacturer shall not bear any responsibility for any damage caused by failure to operate in accordance with this instruction.
- The manufacturer reserves the right of final interpretation for all information in this manual.
For any questions, please refer to the official website.
- All the information in this manual shall not be copied without permission.
- The data contained in this statement are subject to change in the future without prior notice.