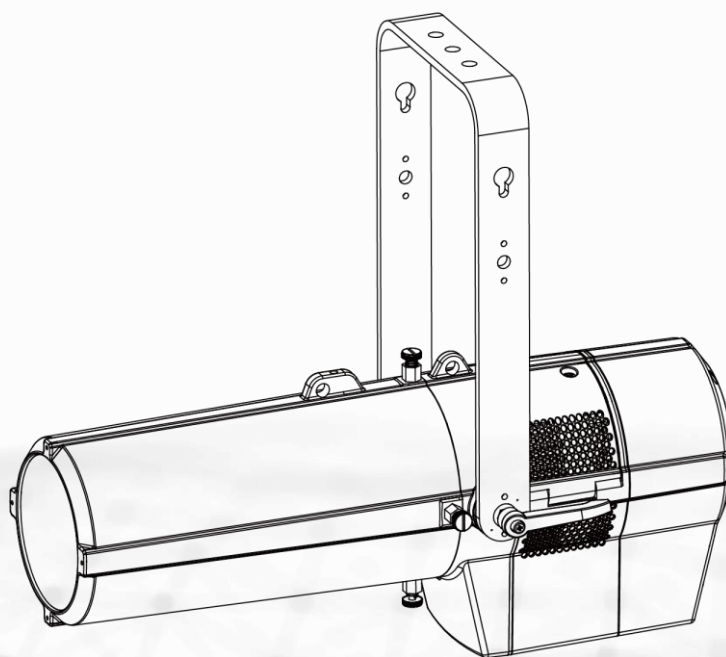


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EP5(单色)英文说明书					编辑日期	2026/5/5
制作	刘丽萍	审核	韩子晓	批准	余泽松	
物料编码	1320110064					
修改内容						
备注	以 A4 样本打印					



User Manual



EP5

Please read this user manual in full before using this product

Contents

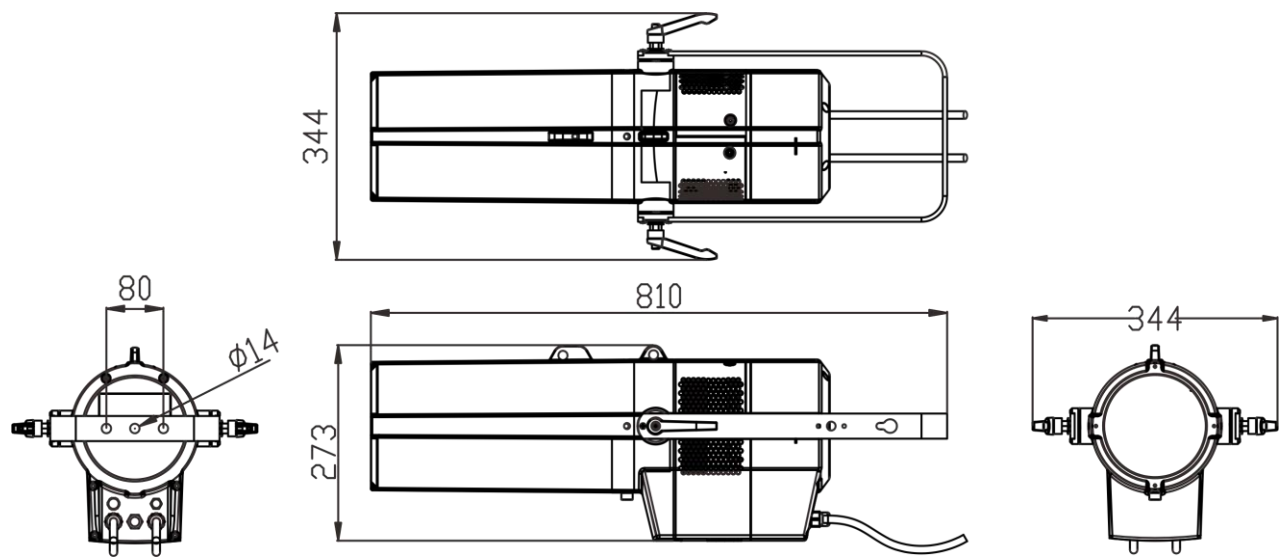
Technical Specifications.....	02
Safety Notes.....	03/04
Installation.....	05/06
Power Connections.....	06/07
Data network requirements.....	07/09
Functions And settings.....	10/11
Using A DMX512 Controller.....	12/13

1 PRODUCT

1.1 TECHNICAL SPECIFICATIONS

Type	EP5
Light source	3200K/4000K/5700K
Power	300W
Voltage Range	100-240V~, 50/60Hz
Protection	IP66
Operation Temperature	-20℃~45℃
Dimensions	810×344×273mm
Weight	16kg

Dimension



2 Safety Notes



WARNING !

- To ensure normal and safe operation, the user must comply with all safety regulations and precautions specified in this manual.
- Installation and maintenance of this luminaire shall only be performed by qualified professional technicians.
- This luminaire has been strictly inspected and qualified before delivery. Please operate in accordance with the user manual. Functional failure or damage caused by human error is not covered under warranty.
- After receiving the luminaire, inspect the package for transportation damage first. If the outer package is intact, unpack and check the product for damage incurred during transit. Do not use the product if damaged, and contact our company's staff immediately.
- During operation, the maximum surface temperature of the luminaire housing can reach 70°C (158°F). **Do not touch the housing with bare hands!** Prevent contact with personnel and combustible materials. Do not install the luminaire in areas with risk of accidental contact. Allow the product to cool for at least 15 minutes before handling.
- For replacement, only use lamps and fuses of the same type and electrical ratings.
- When suspending the luminaire, confirm that the mounting structure and fittings can withstand at least 10 times the weight of the fixture.
- Before operation, ensure the housing is securely closed and all screws are tightly fastened. The dedicated safety cable must be correctly fixed to the luminaire prior to use.
- The maximum ambient operating temperature shall not exceed 45°C. Do not operate this product if the ambient temperature (TA) exceeds 45°C (115°F).
- Do not disassemble or repair the product without guidance from professional personnel.
- Luminaire repairs must be carried out by the manufacturer, authorized service agents, or equivalent qualified professionals, or under professional supervision.
- If the external flexible cable or cord of this luminaire is damaged, it must be replaced by the manufacturer, service agent or qualified professionals to eliminate potential hazards.
- This luminaire is prohibited from being installed near high-voltage power lines or strong electric fields.
- The luminaire must be installed in a well-ventilated area with a minimum clearance of 0.5 meters from adjacent surfaces.
- Do not mount the luminaire directly on combustible materials.

CAUTION!

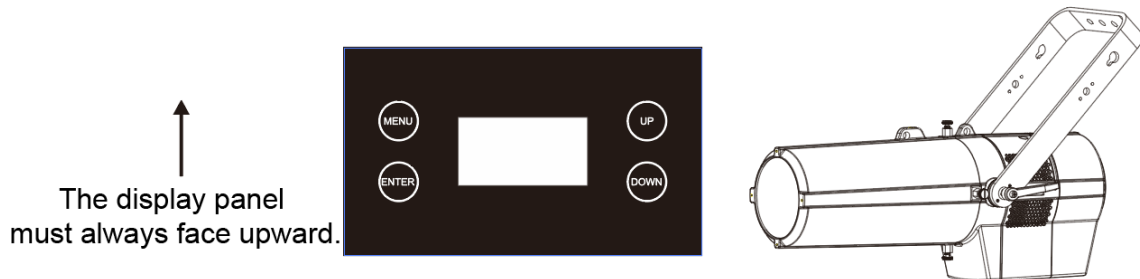
- Please check carefully whether the mains voltage is consistent with the rated voltage marked on the unit, and ensure the operating voltage is within the range specified in the technical parameters.
- Do not touch the power cable with wet hands.
- Before connecting to 110V~220V AC power, confirm that the socket is well grounded. This luminaire must be grounded with a yellow-green two-color earth wire.
- All electrical connections, repairs and maintenance must be carried out by qualified professional personnel.

- Completely cut off the power supply of the luminaire before idle use, cleaning or maintenance work.
- Prevent the power cable from being squeezed, bent or damaged by sharp edges. Inspect the fixture and power cable regularly.
- Always disconnect the power supply when the luminaire is not in use or before cleaning. Unplug the power cable only by the plug. Never pull the cable directly to disconnect the power.
- Do not frequently switch the luminaire on and off in a short time, which will shorten the service life of the product.
- After initial power-up, the luminaire will start automatic self-check with no light output. The self-test process lasts about 1 minute. The luminaire will light up and respond to control signals normally only after self-test completion.
- To guarantee stable operation, power on the control system and output control signals 2 minutes after the luminaire is powered on. 。

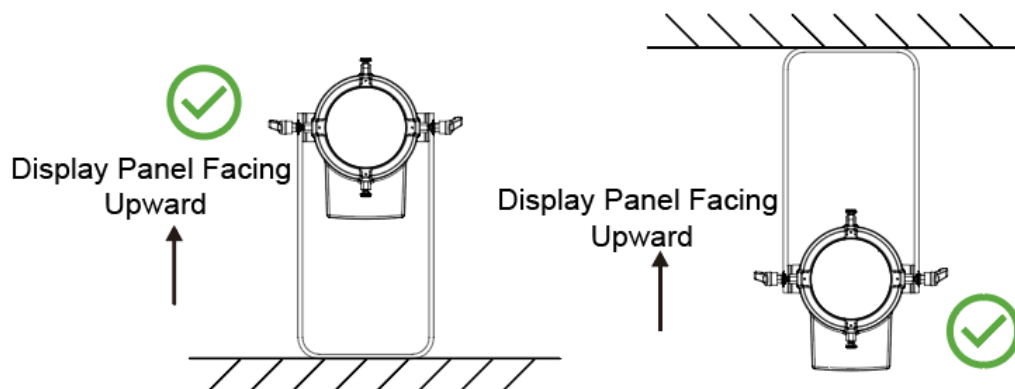
3 INSTALLATION

- ◆ Please confirm the label and mounting position of the luminaire.
- ◆ Do not pull, lift or drag the outgoing cable of the luminaire directly.
- ◆ Handle the luminaire with care during transportation and installation. Avoid collision that may damage the surface coating; do not throw or drop the fixture violently.
- ◆ Place the luminaire at the pre-installed position and adjust its orientation first.
- ◆ Fasten the luminaire to the mounting position with bolts.
- ◆ Adopt M10 bolts of Class 8.8 or above, and fasten securely with self-locking nuts.
- ◆ Each luminaire shall be fixed with no less than two bolts.
- ◆ During installation, the display panel must face upward at all times. Reverse mounting and side mounting are prohibited. Please confirm with our technical personnel for special installation methods.
- ◆ The installation method and connecting accessories shall be customized according to actual site conditions.
- ◆ Before processing mounting accessories or drilling holes, confirm the hole positions and installation details with our technical staff.
- ◆ Please contact our team to obtain the mounting dimension drawing of the luminaire.
- ◆ When installing the luminaire at height, an anti-fall safety cable must be installed.
- ◆ Ensure the safety cable is installed firmly and reliably.
- ◆ Tighten and lock all shackles equipped with nuts.
- ◆ Each luminaire model is matched with a dedicated anti-fall safety cable. Do not mix and use across different models.

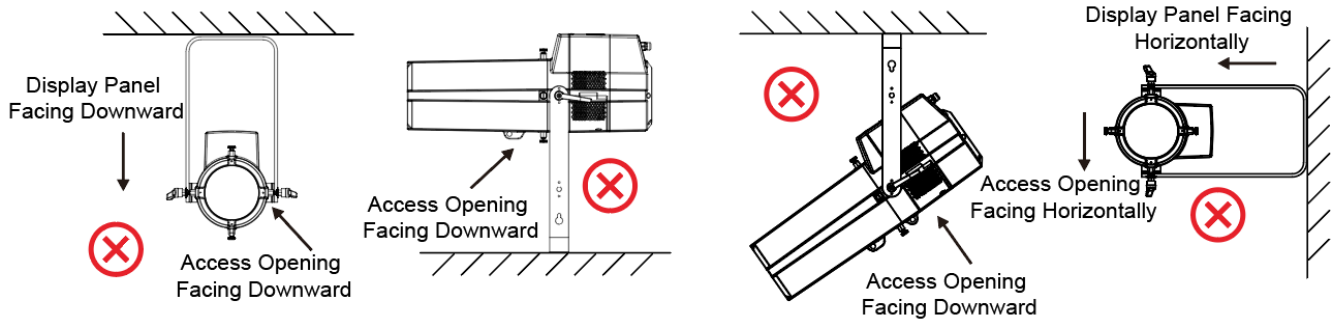
During installation, the display panel and access opening must always face upward.



Correct Installation Reference:

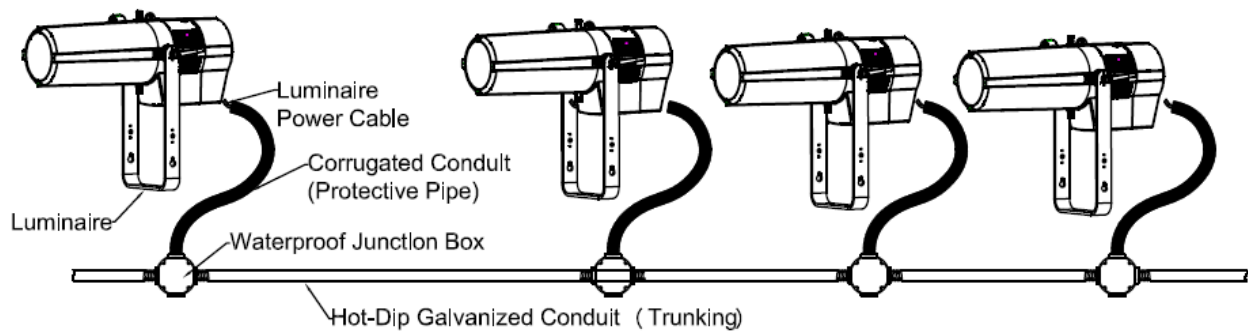


Incorrect Installation Methods:

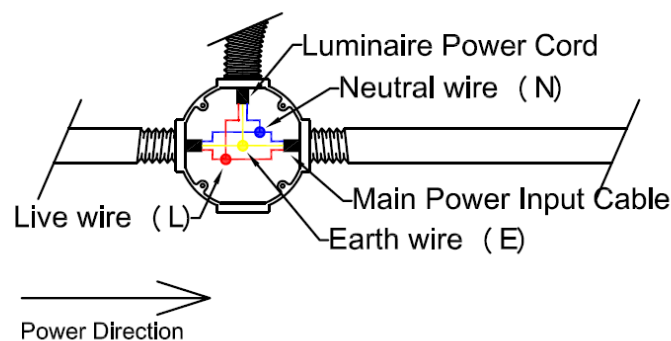


4 POWER CONNECTIONS

- ◆ The input voltage of this product is AC 100-240V, 50/60Hz. Please ensure the input voltage is within this range.
- ◆ All electrical connection work must be performed by qualified and certified installers.
- ◆ In Europe and China, the live wire (L) shall be brown, the neutral wire (N) shall be blue, and the grounding wire shall be green or yellow-green.
- ◆ In the Americas, the live wire (L) shall be black, the neutral wire (N) shall be white, and the grounding wire shall be green or yellow-green.
- ◆ A delayed start function shall be configured for each power supply circuit of the luminaire, with a start delay of 3 seconds per circuit (3s, 6s, 9s...). The quantity of luminaires connected to each circuit shall be determined according to on-site conditions and power rating. No more than 25 luminaires are allowed on each single-phase circuit.
- ◆ Phase voltage balance must be maintained in the electrical system.
- ◆ All wire connections shall ensure reliable contact. Joints must be wrapped with three-layer waterproof protection and installed inside waterproof junction boxes.
- ◆ Power cables and signal cables shall be routed in separate conduits with independent wiring; combined routing in one single conduit is prohibited.
- ◆ All luminaires must be properly grounded. For three-phase power supply, the neutral wire and grounding wire shall not be connected via switches.
- ◆ The power cable of each luminaire shall not be cut shorter than 80 cm.
- ◆ Disconnect the mains power before wiring and installation. Live-line operation is strictly prohibited.
- ◆ All cable connectors shall not be placed on the ground or in waterlogged areas to prevent short circuit caused by water accumulation.
- ◆ All wire joints shall be tinned in advance, followed by three-layer waterproof wrapping, or connected by waterproof junction boxes.
- ◆ Before powering on the luminaires, confirm correct connection of power and signal lines, and ensure no on-site construction work is in progress.
- ◆ Please refer to the electrical connection diagram for all wiring operations.



Electrical Connection Diagram I



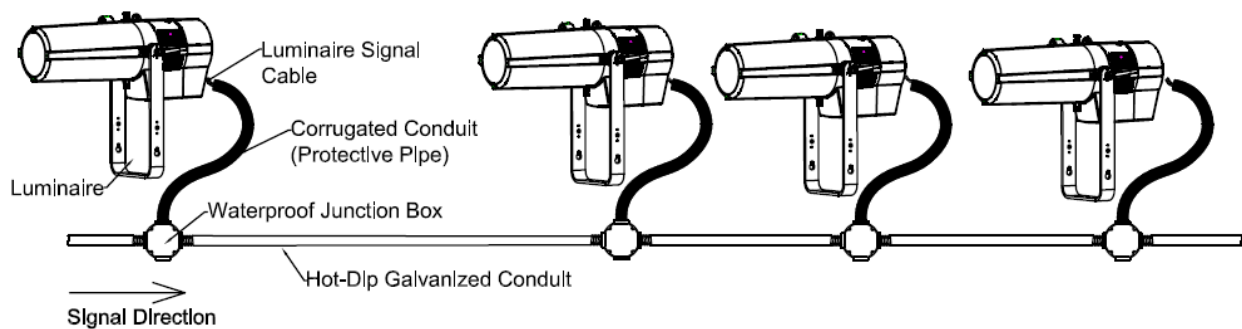
Electrical Connection Diagram II

5 Data network requirements

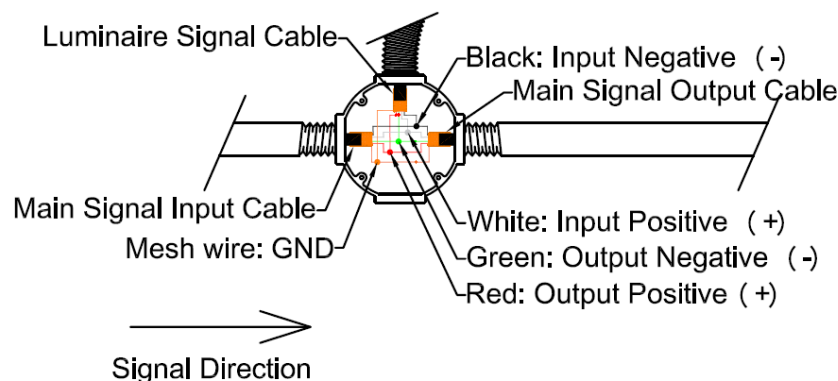
- ◆ The luminaire has two types of signal outlet cables: 4-core & 1-screened bare wire and Y-type 1-to-2 male-female cable.
- ◆ If the luminaire is fitted with a Y-type 1-to-2 male-female signal cable, the male and female connectors shall not be cut off. For signal connection of the entire control system, comply with the rule: male connector for signal input, female connector for signal output.
- ◆ All joints of signal male and female connectors must be fully tightened and wrapped with one layer of waterproof adhesive tape.
- ◆ For luminaires adopting 4-core & 1-screened bare signal wire, the cable shall not be cut to less than 80 cm in length.
- ◆ When the DMX signal cable length between the DMX console and luminaires, or between individual luminaires, exceeds 60 meters, an additional signal amplifier must be installed.
- ◆ Signal amplifiers shall be arranged with a spacing limit of 60 meters. If the distance between two adjacent amplifiers exceeds 60 meters, another amplifier shall be added, regardless of whether luminaires are connected in between.
- ◆ Signal amplifier layout shall follow the limit of maximum 20 luminaires per segment. Once 20 luminaires are connected between two amplifiers, a new amplifier is required even if the distance is within 60 meters.

- ◆ The laying and connection of all signal amplifiers in the whole control system shall strictly follow the combined principle: max. 20 luminaires or max. 60 meters.
- ◆ The installation position and quantity of amplifiers shall be determined according to on-site conditions and actual signal strength.
- ◆ Signal cables and power cables shall be routed in separate conduits and wired independently. Shared conduit routing is prohibited to avoid signal interference.
- ◆ Signal cables are forbidden to connect with high-voltage power, otherwise it will cause permanent damage to the luminaire.
- ◆ The default DMX address of the first luminaire is set to 001. The address calculation formula for subsequent luminaires: $(X-1) \times N + 1$ (X = luminaire sequence number; N = channel quantity). Example: If the first luminaire address is 001 with 4 channels, the address of the 10th luminaire is 37, i.e. DMX address 037.
- ◆ The DMX address of each luminaire must be consistent with the setting of the DMX console. Mismatched addresses will lead to loss of control or abnormal random flickering.
- ◆ DMX addresses can be reused as required.
- ◆ DMX address codes can be set to any value within the range of 001 to 512.

4-Core 1-Shielded Bare Wire Signal Connection Diagram

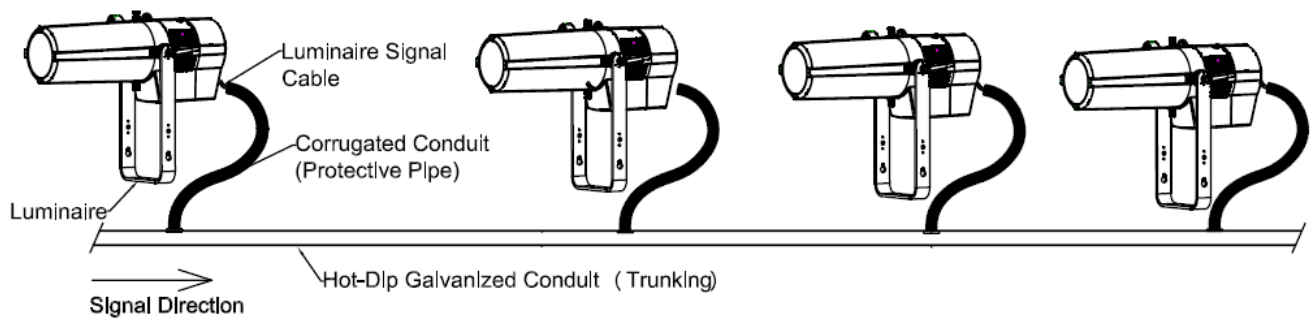


4-Core 1-Shielded Bare Wire Signal Connection Diagram I

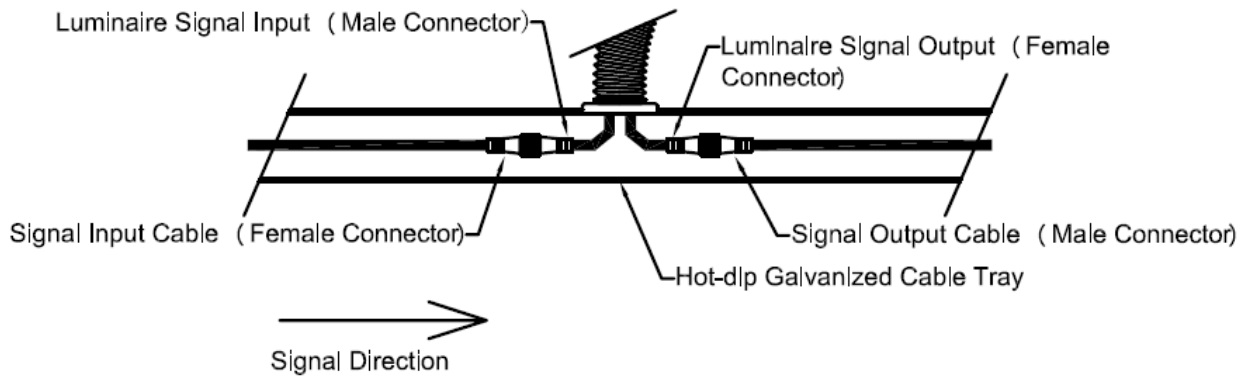


4-Core 1-Shielded Bare Wire Signal Connection Diagram II

Y-Type 1-to-2 Male-Female Cable Signal Connection Diagram



Y-Type 1-to-2 Male-Female Cable Signal Connection Diagram I



Y-Type 1-to-2 Male-Female Cable Signal Connection Diagram II

6 FUNCTIONS AND SETTINGS

6.1 DISPLAY OPERATION

- ◆ MENU: Used to access the menu or to return a previous menu option;
- ◆ ENTER: Used to select and store the current menu or confirm the current function value or option within a menu;
- ◆ UP: Navigates downwards through the menu list and increases the numeric value when in a function;
- ◆ DOWN: Navigates upwards through the menu list and decreases the numeric value when in a function;
- ◆ Standby mode: Press and hold the MENU key for 10 seconds to activate the display panel.
- ◆ Enter the password in sequence: UP → DOWN → UP → DOWN, then press the ENTER key to access the menu function settings.



6.2 Menu Map

STATIC	DIMMER	0-255			Combine [DIMMER] [GOBO]to create an infinite range of colors(0-255). Set the value of the [STROBE](0-25Hz).
	GOBO	0-255			
	STROBE	0-25			
ADDRESS	001-512				Set the DMX ADDRESS
PERSONALITY	SIMPLE(default)				Use the menu to select desired channel mode
	MODE 16BIT				
RUN MODE	DMX				[DMX] Using the DMX 512 controller to control.[SLAVE] Master--Slave operation
	SLAVE				
AUTO PROGRAM	PR.01				Programs [CUSTOM 1] to [CUSTOM 10] are fully pre-programmed and can be edited in [EDIT] mode.
	PR.02				
					
	PR.09				
	PR.10				
EDIT	PROGRA M 01-10	SCENE 01-30	DIMMER	0-255	Enter the [EDIT] mode to edit the custom programs [PROGRAM01] to [PROGRAM2]. Each custom program has 30 scenes that can be edited. Fade transition time, time 0-255 unit is second, fade time setting should be less than time setting. After editing the program, Play in AUTO.
			GOBO	0-255	
			STROBE	0-255	
			TIME	0-255	
			FADE	0-255	

	UPLOAD	****	SEND		Select [UPLOAD] to upload the custom programs
	****	RESET ALL	****	RESET ALL	Restore factory settings
		DIMMER	OFF(default)		Dimming curves DIM1 (fast) to DIM4 (slow):
			DIM1		
			DIM2		
			DIM3		
			DIM4		
		DMX ERROR	SAVE(default)		Hold after loss of DMX signal
			BLACK		Blackout after loss of DMX signal
		PERFORM	LIVE(default)		Fan mode low speed
			POWER		Fast rotation of fan, all power
			STUDIO		Automatic rotation of fan
		DISP KEY	OFF		Locks display (passcode is <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>)
			ON(default)		
		DISP TIME	ON		Display backlight always on
			10s		Turns off display backlight after 10s/30s /2min of inactivity
			30s(default)		
			2min		
		WDMX RESET	YES		Wireless DMX reset
			NO		
		SIGNAL	XLRDMX		XLRDMX and WDMX mode select
			WDMX		
INFO	FIXTURE HOURS(default 00h)			Hours of fixture use	
	VERSIO N	Software versions			
	RDM	UID	0x388Axxxxxxxx		Check fixture's ID
		LABEL			Check fixture's LABEL
All passwords of this product are <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>					

7 USING A DMX512 CONTROLLER

7.1 DMX CONTRO

SIMPLE (4CH)	Value	Function
CH.1	0-255	DIMMER
CH.2	STROBE	
	0-9	NO FUNCTION
	10-99	STROBE FROM SLOW TO FAST (0-25Hz)
	100-109	NO FUNCTION
	110-179	THUNDER STROBE
	180-189	NO FUNCTION
	190-255	RANDOM STROBE
CH.3	GOBO ROTATION	
	0-9	NO FUNCTION
	10-145	GOBO ADJUST THE ANGLE (0 → 360°)
	146-150	STOP ROTATION
	151-200	CLOCKWISE (SPEED 1 → 100%)
	201-205	STOP ROTATION
	206-255	COUNTERCLOCKWISE (SPEED 1 → 100%)
CH.4	CONTROL (EXECUTE AFTER 3 SECONDS)	
	0-9	NO FUNCTION
	10-34	LIVE
	35-59	STUDIO
	60-84	POWER
	85-109	OFF
	110-134	DIM1
	135-159	DIM2
	160-184	DIM3
	185-209	DIM4
	210-224	Motor Reset
	225-234	All Reset
	235-255	NO FUNCTION

MODE 16BIT (5CH)	Value	Function
CH.1	0-255	DIMME
CH.2	0-255	DIMMER FINE
CH.3	STROBE	
	0-9	NO FUNCTION
	10-99	STROBE FROM SLOW TO FAST (0-25Hz)
	100-109	NO FUNCTION
	110-179	THUNDER STROBE
	180-189	NO FUNCTION

	190-255	RANDOM SROBE
CH.4	GOBO ROTATION	
	0-9	NO FUNCTION
	10-145	GOBO ADJUST THE ANGLE (0 —> 360°)
	146-150	STOP ROTATION
	151-200	CLOCKWISE (SPEED 1 —> 100%)
	201-205	STOP ROTATION
	206-255	COUNTERCLOCKWISE (SPEED 1 —> 100%)
CH.5	CONTROL (EXECUTE AFTER 3 SECONDS)	
	0-9	NO FUNCTION
	10-34	LIVE
	35-59	STUDIO
	60-84	POWER
	85-109	OFF
	110-134	DIM1
	135-159	DIM2
	160-184	DIM3
	185-209	DIM4
	210-224	Motor Reset
	225-234	All Reset
	235-255	NO FUNCTION



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