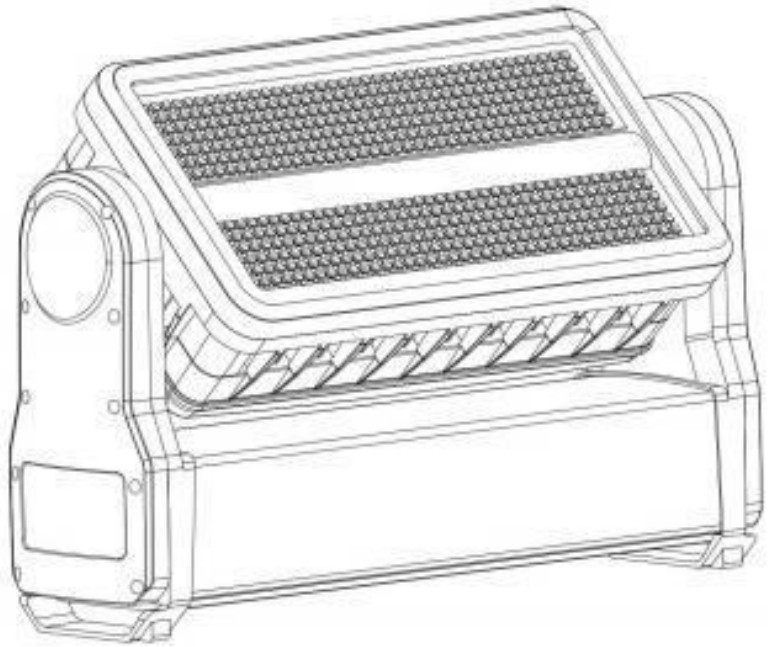
Moving strobe 1500 IP

User Manual



Guangzhou Mitek Light Co.,LTD
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Website: www.miteklight.com
Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

TECHNICAL PARAMETERS

Light source

Mains voltage: 100-240V AC / 50-60Hz
Power: 1000W

Optical

Strobe Panel LEDs
LED Type: 5050 0.5W RGB 3in1 LEDs
LED Count: 560
LED Colors: RGB
LED Segments: 12 (2 x 6)
Strobe Tube LEDs
LED Type: 3535 5W 6500K LEDs
LED Count: 144
LED Colors: Cool-White
LED Segments: 12

Controls

Movement Resolution: 8-16
Bit Position Feedback:
yes Tilt (Degrees): 185°
Control Modes:23CH / 14CH / 68CH
Display: Illuminated graphic LCD
Protocol: USITT DMX-512, RDM
RDM: Bidirectional communication
Wireless DMX: 2.4 GHz W-DMX™ (optional)
Signal connection: Seetronic IP65 XLR 5-Pin or 3-Pin In/Out
Power Input: Seetronic powerCON TRUE1 In/Out

Effect

Dimmer: 0-100% electronic Shutter:
electronic, max. 20 Hz Internal
Effects: LED Macro Effects

Body

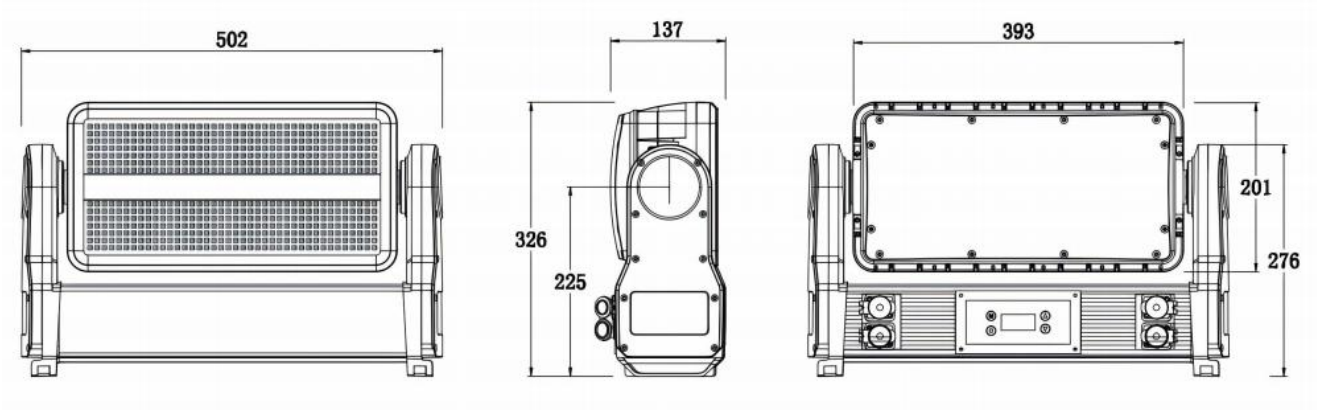
Cooling: Temperature controlled, overheating protection
Maximum ambient temperature: -30°C / 86°F, 50°C / 122°F Operating
Position: any
Mounting Options
Standing: Rubber feet
Hanging:Omega-Bracket
Safety wire attachment: foldout eyelets

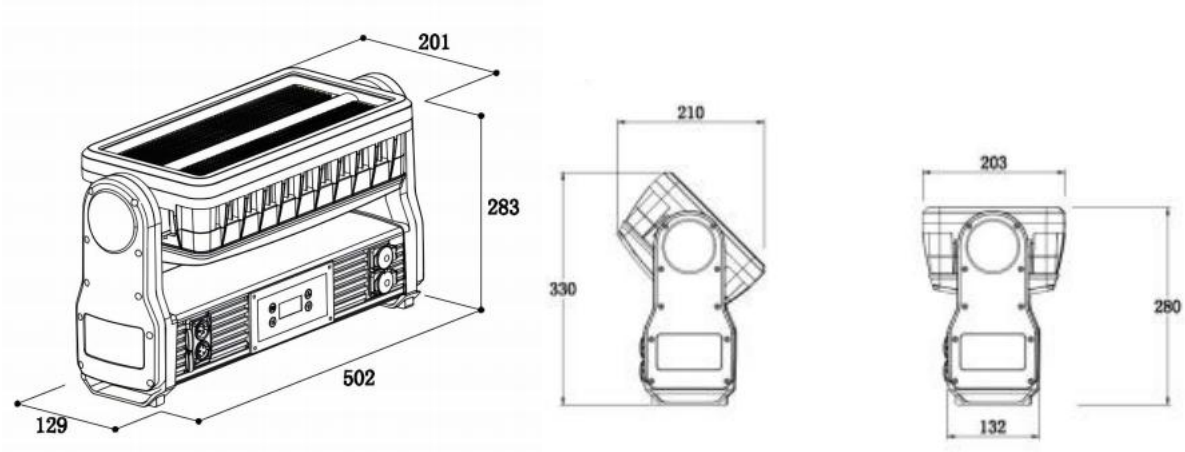
Dimensions

Single fixture: cardboard (inner and outer cartons)
Tourpack: 4-way Flight Case

Housing Colors
Standard colors: black
Dimensions & Weight
Length: 502 mm / 119.8 in
Width: 137 mm / 5.4 in
Height (head horizontal): 326 mm / 12.8 in
N.W: 11.2 kg G.W:
13.5 kg

SIZE DRAWING





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.

ACCESSAORIES

These items are packed together with the light:：

Name	Quantity	Unit	Remarks
clamps	2	Pcs	
Safety cord	2	Pcs	
Using manual	1	Pcs	

Safety instructions

When unpacking and before disposing of the carton check there is no transportation damage before using the light. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus. The projector is for indoor and outdoor use, IP65.

Do not install the fixtures onto inflammable surfaces directly.

The fixture is only intended for installation, operation and maintenance by qualified personnel.
Do not project the beam onto inflammable surfaces, minimum distance is 3meter.
3m

Avoid direct exposure to the light from the lamp. The light is harmful to the eye. Do not attempt to dismantle and/or modify the projector in any way. Electrical connection must only be carried out by qualified personnel. Before installation, ensure that the voltage and frequency ofpower supply match the power requirements of the fixture. It is essential that each projector is correctly earthed and that electrical installation
conforms to all relevant standards. Do not connect this device to any other types of dimmer apparatus. The projector should always be installed with a secondary safety fixing. A safety cord is supplied for this; it should be attached as shown in “installing the projector” section.

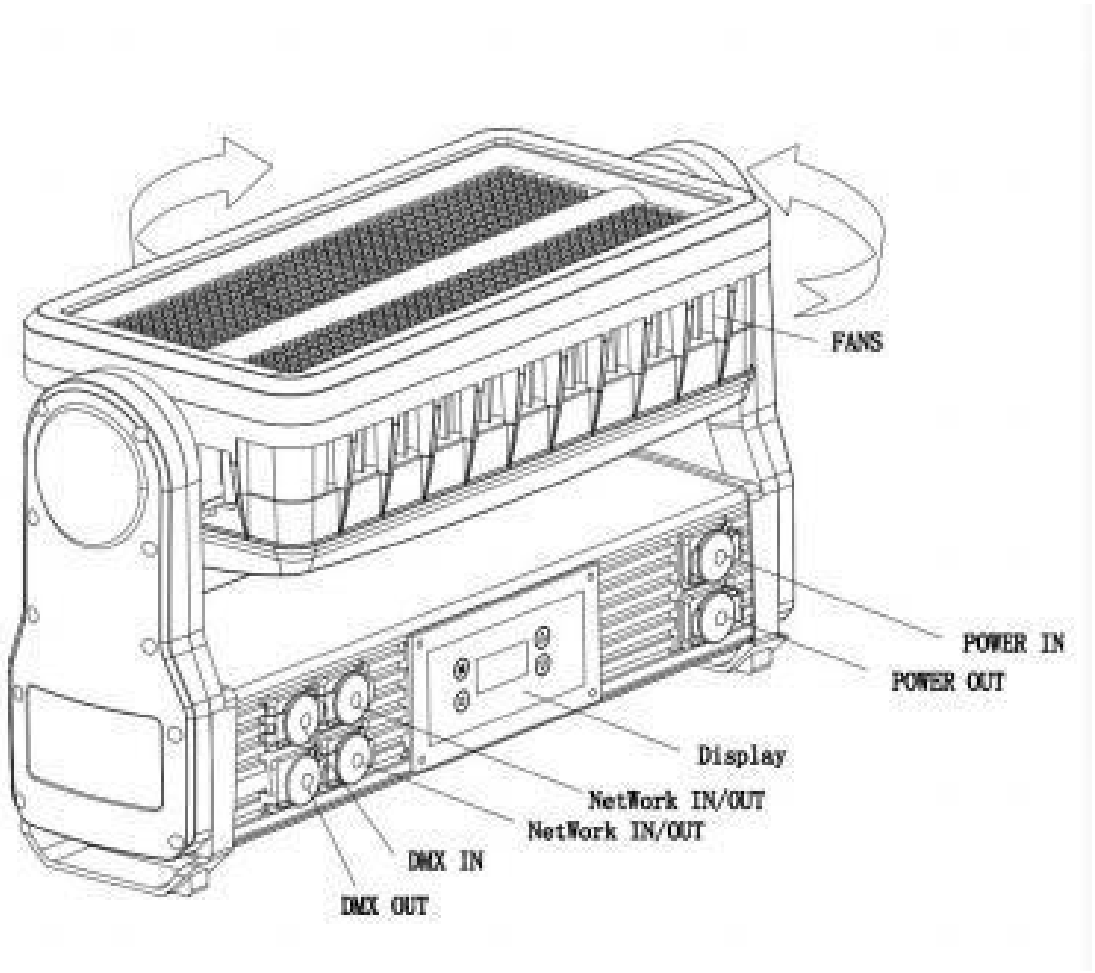
Shields and lens shall be changed if they have become visibly damaged to such an extent than their effectiveness is impaired, for example by cracks or deep scratches.

Exterior surface temperatures of the luminaire after 5 minutes operation is 45℃, when steady state is achieved 70℃
There is no user serviceable parts inside the projector, do not open the housing and never operate the fixture with the covers
removed. If you have any questions, don’t hesitate to consult your dealer or manufacturer.

Always disconnection from Power before the device’s installation, cleaning and maintenance！

INSTALLATIONS

Product Overview



Safety Informations

WARNING! *Read the safety precautions in this section before unpacking, installing, powering or operating this product.*

This luminaries are multi-environmental fixtures with an IP-rating of 65, intended for professional use only. They are not suitable for household use. Review the following safety precautions carefully before installing or operating the fixture. This fixture must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the fixture and the hazards involved.

Preventing electric shock

WARNING! *Risk of electric shock.*

- Always power off/unplug the fixture before removing any covers.
- Ensure that the power is turned off when connecting the fixture to the AC mains supply.
- Ensure that the fixture is electrically connected to earth (ground).

- Do not apply power if the fixture is in any way damaged.
- Do not immerse the fixture in water or liquid.

WARNING! *Take measures to prevent burns and fire.*

- Install in a location that prevents accidental contact with the fixture.
- Install only in a well-ventilated space.
- Install at least 0.3 m (12 in.) away from objects to be illuminated.
- Install only in accordance with applicable building codes.
- Ensure a minimum clearance of 0.1 m (4 in.) around the cooling fans.
- Do not paint, cover or modify the fixture.
- Keep all flammable materials away from the fixture.
- Allow the fixture to cool for 15 minutes after operation, beforetouching it.
- CAUTION: Exterior surface temperature after 5 min. operation = 45 °C (113 °F). Steady state = 60 °C (140 °F).

Avoid personal injury

WARNING! *Take measure to prevent personal injury.*

- Do not look directly at the light source from close range.
- Take precautions to prevent injury due to falls when working at height.
- For permanent installation, ensure that the fixture is securely
- fastened toa load-bearing surface with suitable corrosion-resistant hardware.
- For temporary installation with clamps, ensure that the quarter-turn fasteners are turned fully and secured with a suitable safety cable. The cable must be approved for a safe working load (SWL) of 10 times the weight of the fixture, and it must have a minimum gauge of 3mm.

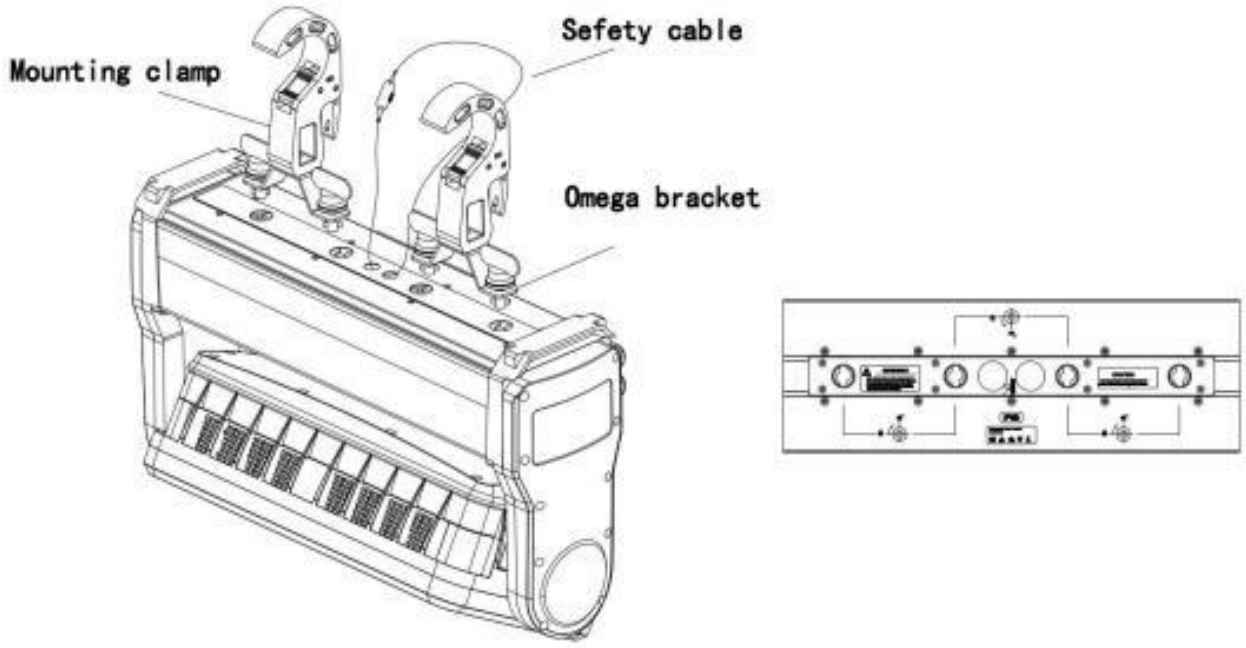
Preparing for installation

Unpack the fixture and inspect it to ensure that it has not been damaged during transport.
The fixture is shipped with two quarter-turn brackets, that can be used to mount the fixture at elevation.
The fixture is IP65-rated, and is designed for use in wet locations.
This means that it is protected from:

- Dust, to the degree that dust cannot enter the fixture in sufficient quantities as to interfere with its operation.
- Lower pressure jets of water from any direction. When selecting a location for the fixture, ensure that:
- It is situated away from public thoroughfares and protected from contact with people.
- It is not immersed in water or exposed to high-pressure water jets.
- It has adequate ventilation.

Installation

The fixture may be installed in any orientation, but if installed horizontally with a downward beam-angle, water can potentially pool in the fan wells. Under normal operation the moisture will evaporate. However, in locations with high rainfall, you may wish to fabricate a rain shield above the fixture, or modify the position and orientation of the fixture to minimize pooling.



Two quarter-turn brackets are supplied with the fixture if it is to be flown above the ground. Rig the fixture to a support truss or structure using the supplied brackets and suitable clamps. Fasten a safety cable (not shown) between the support structure and the attachment point on the fixture. The safety cable must be able to bear at least 10 times the weight of the fixture.

Connecting AC Power

The fixture can operate on any 100–240 V, 50/60 Hz AC mains power supply. It draws approximately 2 amps at full power. For permanent installation, have a qualified electrician wire the mains cable directly to a suitable branch circuit. The junction's ingress protection (IP) rating must be suitable for the location. For temporary installation, the mains cable may be fitted with a grounded connector intended for exterior use.

When installing standard type C circuit breakers there will be no limitations due to the fixture in-rush current. Due to the nominal current of the fixture, ensure that no more than:

4 fixtures are connected through the same type C, 10A circuit breaker. 7
fixtures are connected through the same type C, 16A circuit breaker. The fixture must be grounded/earthed and be able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

After connecting the fixture to power, run the on-board test, using the "Fixture Text" menu, to ensure that the fixture and each LED are functioning correctly. See "Control menu" .

CAUTION: Do not open the fixture to replace the supplied power cable, or connect the fixture to an electrical dimmer system, as this can damage i

Configuring the fixture

Set up the fixture using the control panel and LCD display at the arm side of the fixture. Navigate the menus and options using the arrow buttons and select items using the Enter button. The options available are listed in “Control menu” on page 13. After powering on, the display shows the currently selected operating mode and other information.
The fixture is set by default to be controlled in DMX mode.

Master/Slave configuration

You can set a fixture to operate as master fixture to another fixture (which then becomes a slave fixture), or an entire group of fixtures (which then becomes slave fixtures). The assigned slave fixture(s) will mimic the settings of the master fixture. Use the “Auto Program -> Auto Color / Auto Fade” menu to set your fixture as master fixture, then other fixtures set to DMX mode as slave fixture.

Setinga static color manualy

The fixture can be configured to display a predefined and static color using the “ Manual Color” (see “Control menu” on page 13).
It may suit your needs when you without a DMX controller to do the color mixing.

Usingstand-alone operation

Stand-alone operation is where the fixture is not connected to a control device, but is preprogrammed with 2 modes (Auto Color, Auto Fade), that play continuously in a loop, the run speed of “Auto Color”, “Auto Fade” are adjustable. To define a stand-alone program, use the “Auto Program” menus (see “Control menu” on page 13)

Connecting to a DMX control device

The fixture is controllable using a DMX control device and it can be connected using a DMX cable.
If using a cabled DMX system, connect the DMX in cable (with male 3-pin XLR plug) and out cable (with female 3-pin XLR plug) to the DMX data link. Terminate the DMX out cable of the last fixture in the data link.
For outdoor installations, use only IP-rated XLR connectors suitable for outdoor use.
The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. connect several lights together, DMX in and DMX out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

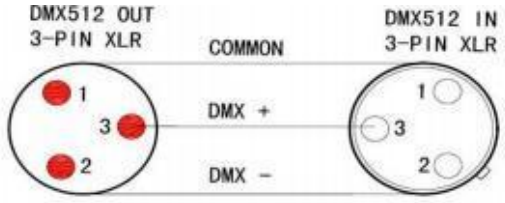
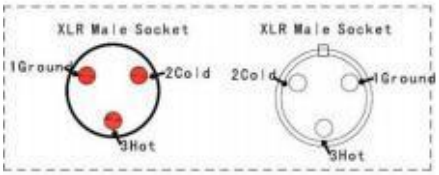


Figure2



XLR Pin Configuration
pin1=Ground
pin2=Data Compliment(negative)
pin3=Data true(positive)

Configuring the fixture for DMX control

About DMX

The fixture can be controlled using signals sent by a DMX controller on a number of channels (which varies depending on the DMX mode that has been set).

The first channel used to receive data from a DMX control device is known as the DMX start address. Each fixture must have a DMX start address set. For example, if a fixture has a DMX address of 10 and it is in 4-channel DMX mode, then it uses channels 10, 11,12 and 13. The following fixture in the DMX chain could then be set to a DMX address of 14. If two or more DMX fixtures of the same type have the same DMX address, then they will mimic each other's behaviour. Incorrect settings will result in unpredictable responses to the lighting controller.

Setting the DMX address

The DMX address can be seen on the main screen. To change the address setting, press the up arrow to increase the address, or the down arrow to decrease the setting. When the desired address is displayed, press Enter to save the setting. Note that channel spacing is determined by the DMX mode. See the " DMX protocols" on page 11 for specific DMX control values.

Setting the DMX mode

Using the "DMX Channel Mode" menu available from the control panel, specify the DMX mode that provides the fixture controls that you require, confirm chosen mode by pressing 'Enter

Cleaning

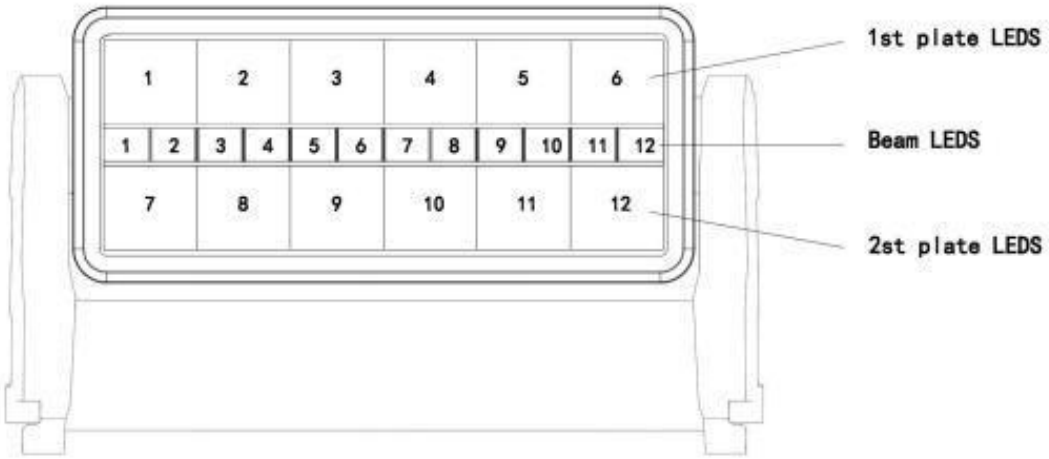
To maintain optimal performance, regular cleaning is essential.

Cleaning schedules will vary depending on the operating environment, and the installation should therefore be checked at frequent intervals within the first few weeks of operation to see whether cleaning is necessary. This procedure will allow you to assess cleaning requirements in your par- ticular situation.

Clean the fixture using a soft cloth dampened with a solution of water and a mild detergent.

Do not use products that contain solvents, abrasives or caustic agents for cleaning, as they can cause damage to both hardware, cables and connectors.

DMX protocols



23 Channel mode

Channel	Name	DescriptionDMX	Value
1	**Coarse Tilt (MSB)**	0- 185°	0-255
2	**Fine Tilt (LSB)**	Coarse tilt + 0- 1.2°	0-255
3	**Beam Intensity**	Intensity 0- 100%	0-255
4	**Beam Duration**	Flash duration 7-650 ms	0-255
5	**Beam Rate**	Flash rate 0.289 - 16.67 Hz	0-255
6	**Beam Shutter**	No	
		flash1	6-42
		Flash2	43-85
		Flash3	86-128
		Flash4	129-171
		Flash5	172-214
		Flash6	215-255
7	**Special / Control**	NO	
		Beam Shutter effects	
		Tilt power on*	
		Tilt power off*	
		Dimmer flash mode on*	
		Dimmer flash mode off*	
		FX color priority = Beam*	
		FX color priority = Mixed*	
		FX color priority = Plate*	
		Fan mode = Auto	
		Fan mode = High	
8	**Plate Intensity**	Intensity 0- 100%	0-255
9	**Plate Flash Duration**	7-650 ms	0-255
10	**Plate Flash Rate**	0.289- 16.67 Hz	0-255
11	**Plate Shutter**	No	0-5
		flash1	6-42
		Flash2	43-85
		Flash3	86-128
		Flash4	129-171
		Flash5	172-214
		Flash6	215-255
12	**Plates Red**	Plates red intensity 0- 100%	0-255
13	**Plates Green**	Plates green intensity 0 - 100%	0-255
14	**Plates Blue**	Plates blue intensity 0- 100%	0-255
15	**FX Crossfade**	Crossfade duration snap - slow	0-255

16	**Plate FX Movement**	Plate FX movement speed slow - fast	0-255
17	**Plate FX Select**	Plate FX pattern select	0-255
18	**Beam FX Movement**	Beam FX movement speed slow - fast	0-255
19	**Beam FX Select**	Beam FX pattern select	0-255
20	**Plates Master**	FX background intensity 0-100%	0-255
21	**Plates**	FX background intensity	0-255
	Background Red	red 0-100%	
22	**Plates Backgroun d Green**	FX background intensity green 0-100%	0-255
23	**Plates Background Blue**	FX background intensity blue 0-100%	0-255

14 Channel mode

Channel	Name	DescriptionDMX	Value
1	**Coarse Tilt (MSB)**	0-185°	0-255
2	**Fine Tilt (LSB)**	Coarse tilt + 0- 1.2°	0-255
3	**Beam Intensity**	Intensity0- 100%	0-255
4	**Beam Duration**	Flash duration 7-650 ms	0-255
5	**Beam Rate**	Flash rate 0.289 - 16.67 Hz	0-255
6	**Beam Shutter**	No	
		flash1	6-42
		Flash2	43-85
		Flash3	86-128
		Flash4	129-171
		Flash5	172-214
		Flash6	215-255
7	**Special / Control**	NO	
		Beam Shutter effects	
		Tilt power on*	
		Tilt power off*	
		Dimmer flash mode on*	
		Dimmer flash mode off*	
		FX color priority = Beam*	
		FX color priority = Mixed*	
		FX color priority = Plate*	
		Fan mode = Auto	
		Fan mode = High	

8	**Plate Intensity**	Intensity 0- 100%	0-255
9	**Plate Flash Duration**	7-650 ms	0-255
10	**Plate Flash Rate**	0.289- 16.67 Hz	0-255
11	**Plate Shutter**	No	
		flash1	6-42
		Flash2	43-85
		Flash3	86-128
		Flash4	129-171
		Flash5	172-214
		Flash6	215-255
12	**Plates Red**	Plates red intensity 0- 100%	0-255
13	**Plates Green**	Plates green intensity 0 - 100%	0-255
14	**Plates Blue**	Plates blue intensity 0- 100%	0-255

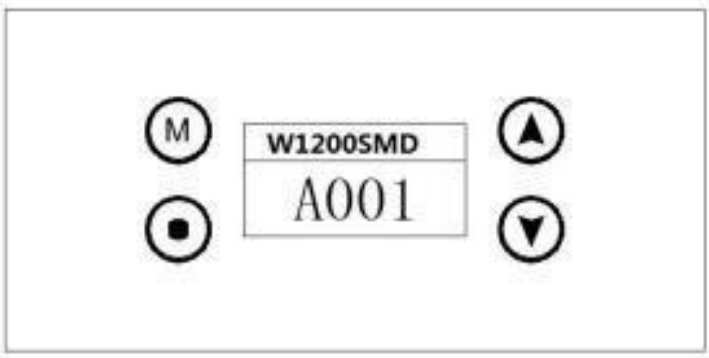
68 Channel mode

Channel	Name	DescriptionDMX	Value
1	**Coarse Tilt (MSB)**	0- 185°	0-255
2	**Fine Tilt (LSB)**	Coarse tilt + 0- 1.2°	0-255
3	**Beam Intensity**	Intensity 0- 100%	0-255
4	**Beam Duration**	Flash duration 7- 650 ms	0-255
5	**Beam Rate**	Flash rate 0.289 - 16.67 Hz	0-255
6	**Beam Shutter**	No	
		flash1	6-42
		Flash2	43-85
		Flash3	86-128
		Flash4	129-171
		Flash5	172-214
		Flash6	215-255
7	**Special / Control**	NO	
		Beam Shutter effects	
		Tilt power on*	
		Tilt power off*	
		Dimmer flash mode on*	
		Dimmer flash mode off*	
		FX color priority = Beam*	
		FX color priority = Mixed*	
		FX color priority = Plate*	
		Fan mode = Auto	
		Fan mode = High	
8	**Plate Intensity**	Intensity 0- 100%	0-255

9	**Plate Flash Duration**	7-650 ms	0-255
10	**Plate Flash Rate**	0.289- 16.67 Hz	0-255
11	**Plate Shutter**	No	0-5
		flash1	6-42
		Flash2	43-85
		Flash3	86-128
		Flash4	129-171
		Flash5	172-214
		Flash6	215-255
12	**Plates Red**	Plates red intensity 0- 100%	0-255
13	**Plates Green**	Plates green intensity 0 - 100%	0-255
14	**Plates Blue**	Plates blue intensity 0-100%	0-255
15	**FX Crossfade**	Crossfade duration snap - slow	0-255
16	**Plate FX Movement**	Plate FX movement speed slow - fast	0-255
17	**Plate FX Select**	Plate FX pattern select	0-255
18	**Beam FX Movement**	Beam FX movement speed slow - fast	0-255
19	**Beam FX Select**	Beam FX pattern select	0-255
20	**Plate Master**	FX background intensity 0-100%	0-255
21	**Plate Background Pixel 1**	Red	0- 100%
22		Green	0- 100%
23		Blue	0- 100%
24	**Plate Background Pixel 2**	Red	0- 100%
25		Green	0- 100%
26		Blue	0- 100%
27	**Plate Background Pixel 3**	Red	0- 100%
28		Green	0- 100%
29		Blue	0- 100%
30	**Plate Background Pixel 4**	Red	0- 100%
31		Green	0- 100%
32		Blue	0- 100%
33	**Plate Background Pixel 5**	Red	0- 100%
34		Green	0- 100%
35		Blue	0- 100%
36	**Plate Background Pixel 6**	Red	0- 100%
37		Green	0- 100%
38		Blue	0- 100%
39	**Plate Background Pixel 7**	Red	0- 100%
40		Green	0- 100%
41		Blue	0- 100%
42		Red	0- 100%

43	**Plate Background Pixel 8**	Green	0- 100%
44		Blue	0- 100%
45	**Plate Background Pixel 9**	Red	0- 100%
46		Green	0- 100%
47		Blue	0- 100%
48	**Plate Background Pixel 10**	Red	0- 100%
49		Green	0- 100%
50		Blue	0- 100%
51	**Plate Background Pixel 11**	Red	0- 100%
52		Green	0- 100%
53		Blue	0- 100%
54	**Plate Background Pixel 12**	Red	0- 100%
55		Green	0- 100%
56		Blue	0- 100%
57	**Beam Pixels Intensity**	Pixel 1	0- 100%
58		Pixel 2	0- 100%
59		Pixel 3	0- 100%
60		Pixel 4	0- 100%
61		Pixel 5	0- 100%
62		Pixel 6	0- 100%
63		Pixel 7	0- 100%
64		Pixel 8	0- 100%
65		Pixel 9	0- 100%
66		Pixel 10	0- 100%
67		Pixel 11	0- 100%
68		Pixel 12	0- 100%

Control menu



power-on password: UP-DOWN- UP-DOWN- ENTER
Press button UP or DOWN ifyou want to browse through the various Setup Options.
Press button ENTER to save your settings or enter the next menu.
Press button UP or DOWN to shift.
Press button Menu will return to the upper menu one by one.

1st LEVEL	2nd LEVEL	1rd LEVEL	1th LEVEL
DMX Address	XXX （1~499）	enter	
Net IP	IP Address	IP (0-255)	Enter
		IP (0-255)	Enter
		IP (0-255)	Enter
		IP (0-255)	Enter
	Sub tmask	255.0.0.0	Enter
		255.255.0.0	Enter
		255.255.255.0	Enter
Set Universe	Strobe Universe	0-32766	Enter
	Aura Universe	0-32766	Enter
DMX channel model	23 CH (DMX)	enter	
	14 CH (DMX)	enter	
	68CH (DMX)	enter	
OFFline statu	Hold	enter	
	Manual	enter	
	Auto	enter	
	OFF	enter	
	On	enter	
Manual Color	Dimmer	0-255	
	Strobe	0-255	
	Macro 1	0-255	
	Macro S1	0-255	
	Macro 2	0-255	
	Macro S2	0-255	
	Macro Color	0-255	
	Char1	0-255	
	Char 2	0-255	
	Char 3	0-255	
	Char 4	0-255	
	Char 5	0-255	
	Char Color	0-255	
	BackColor Red	0-255	

	BackColor Green	0-255	
	BackColor Blue	0-255	
	White 1	0-255	
	White 2	0-255	
	White 3	0-255	
	White 4	0-255	
	White 5	0-255	
	White 6	0-255	
	White 7	0-255	
	White 8	0-255	
Auto Prgram	Show RGB	0-255	
	Speed RGB	0-255	
	Show W	0-255	
	Speed W	0-255	
	Char Color	0-255	
	Char1	0-255	
	Char 2	0-255	
	Char 3	0-255	
	Char 4	0-255	
	Char 5	0-255	
Display	Ch / En	中文	
		English	
	Display Direct	Normal	
		reverse	
	Backlight	ON	
		30s	
Parameter	NO		
	yes		
Default	No		
	Yes		
Info	RDM UID		
	Channel		
	Ver		

Time		
Temperature		

REMARK

The product has perfect performance and intergrity packing. All users should be strictly comply with the warning and operating instructions as stated.

Or we aren ’t in charge of any result by misusing.

Any damage resulting by misuse is not within the Company ’s warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.