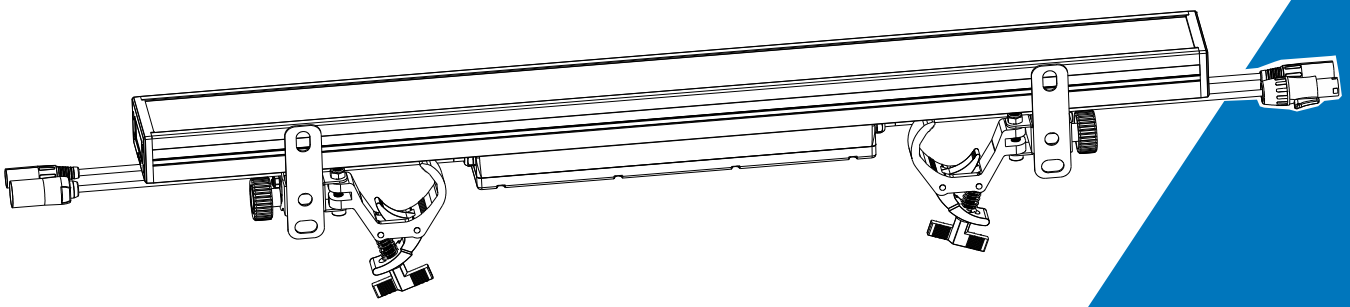
FLANDINA 22 IP



User Manual

Please read the instruction carefully before use

CONTENTS

01/ Safety Instructions..... 2

02/ Technical Specifications 4

03/ Control Panel..... 6

04/ Fixture Installation..... 7

4.1 Connecting and Aligning Multiple Fixtures..... 8

4.2 Stand the Fixture on the Floor 9

05/ How To Set The Unit..... 10

5.1 Main Functions..... 10

5.2 Home Position Adjustment..... 21

06/ Control By Universal DMX Controller..... 25

6.1 DMX512 Connection..... 25

6.2 Address Setting..... 26

6.3 DMX512 Configuration..... 27

07/ Error Information..... 36

08/ Troubleshooting 37

09/ Fixture Cleaning..... 37

01/ Safety Instructions

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

WARNING

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

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.

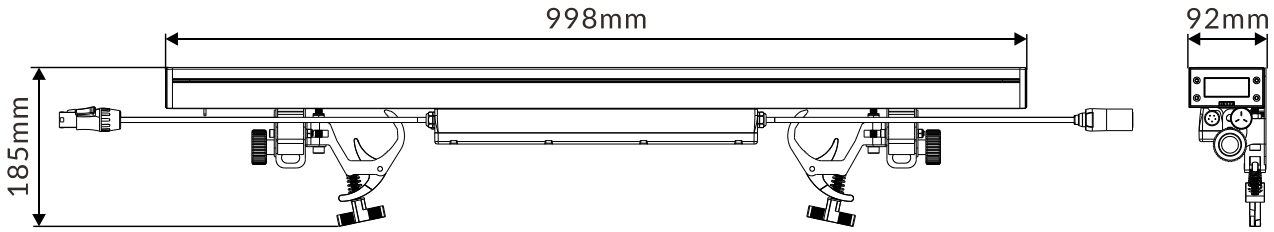
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is suitable for wet locations. Do not immerse in water.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the 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: 0˚C. Maximum ambient temperature TA: 40˚C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- 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.

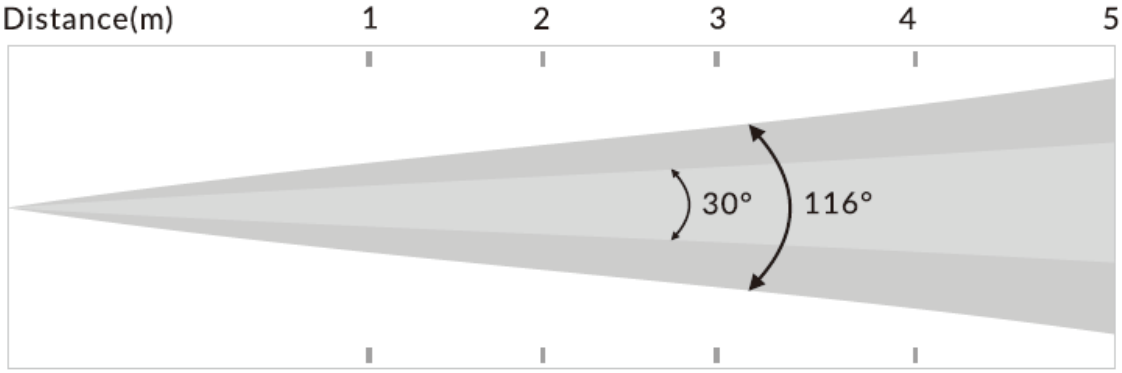
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 0.5 meters.
- In 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.

02/ Technical Specifications

Power Voltage	100-240V~ 50/60Hz	
Power Consumption	300W	
Light Source	12x10W RGBWA LED	
	108x3W CW LED	
Beam Angle (50%)	30° (RGBWA)	
	116° (CW)	
Field Angle (10%)	56° (RGBWA)	
	160° (CW)	
Dimmer/Strobe	0-100% smooth dimming; outstanding strobe effect with variable speed	
Control	DMX Channel	75/72/16/15/10/8/7/6 Channels
	Control Mode	DMX512
		RDM
	Firmware Upgrade	Firmware Upgrade via DMX link
Construction	Display	OLED display
	Data In/Out	5-pin IP XLR (3-pin IP XLR is optional)
	Power In/Out	Waterproof Power Connector in/out
	Protection Rating	IP66
Features	12 x LEDs with individual control	
	Variable CTO	
	Outstanding color mixing effect	
	Double mounting brackets with adjustable angle of 180°	
	2 x fixed clamps for 50mm truss	
	IP66 protection rating, which can be used outdoors all the year round	
Dimensions	998x92x185 mm	39.3"x3.6"x7.3"
Weight	7 kg	15.4 lbs

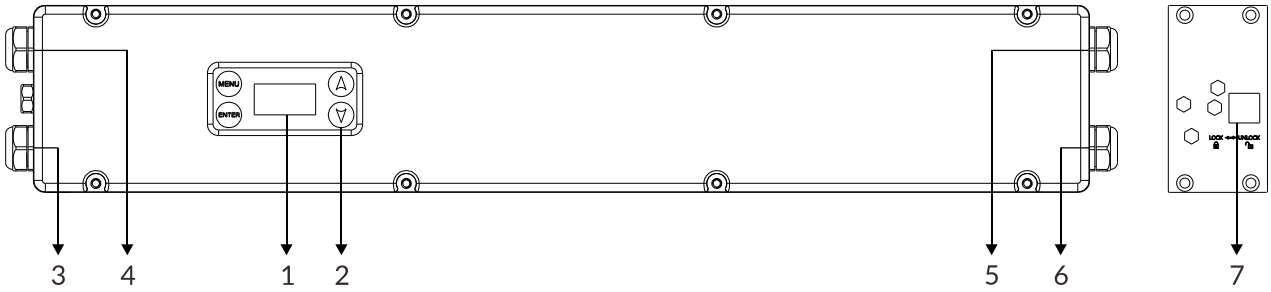


Photometric Diagram:



30° RGBWA Lux	8,457	2,114	939.7	528.6	338.3
Diameter(m)	0.5	1.1	1.6	2.2	2.7
116° CW Lux	5,294	1,323	588.2	330.9	211.8
Diameter(m)	3.2	6.4	9.6	12.7	15.9

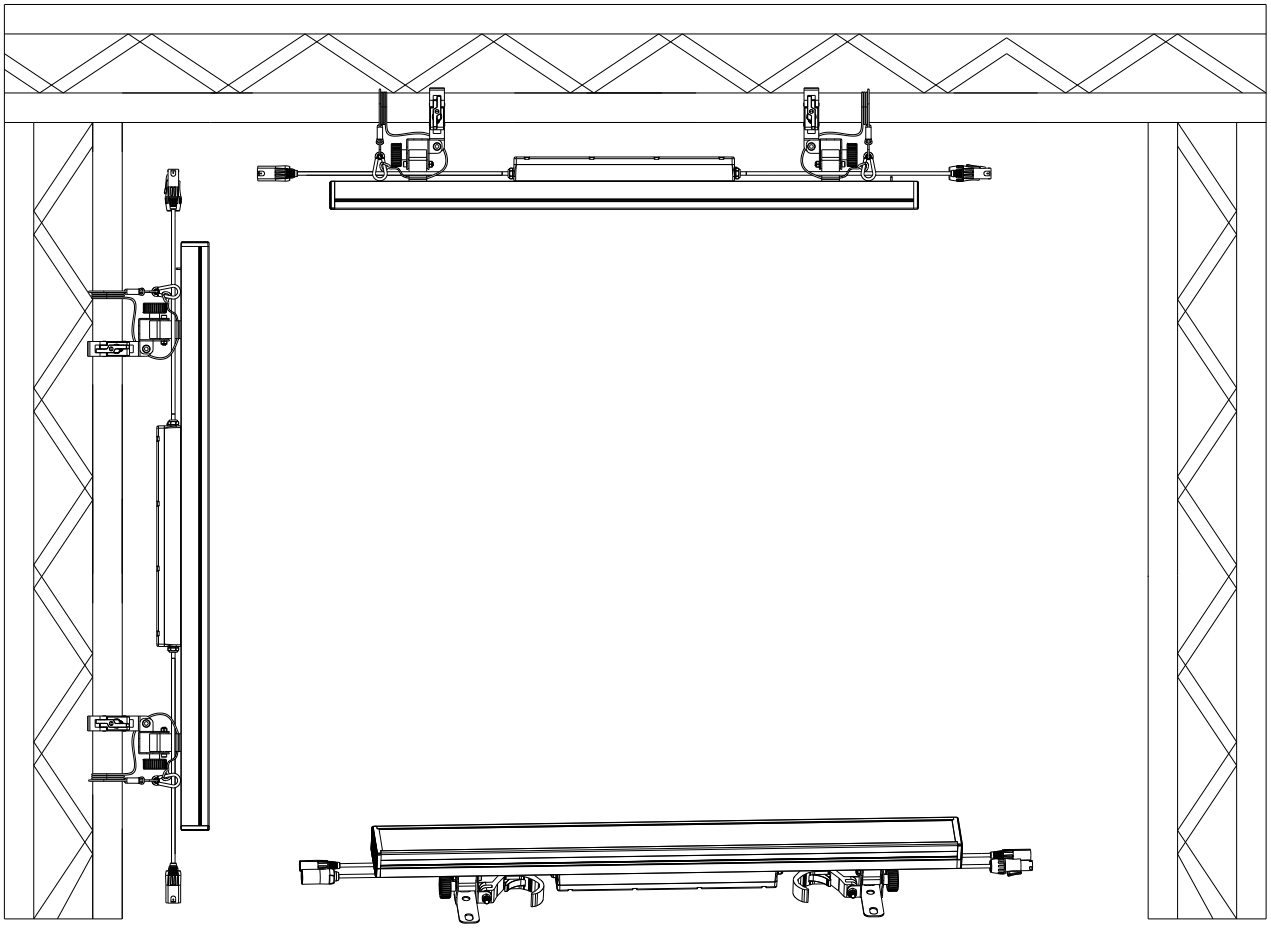
03/ Control Panel



1. Display	To show the various menus and the selected function	
2. Buttons	MENU	To enter into move backward or leave the menu
	▲ UP	To go backward to move up in the menu
	▼ DOWN	To go forward to move down in the menu
	ENTER	To perform the desired functions
3. DMX IN	For DMX512 link, use 5-pin XLR cable to link the unit and DMX controller to input DMX signal (3-pin XLR cable is optional)	
4. POWER IN	To connect to supply power	
5. POWER OUT	To connect to the next fixture	
6. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output DMX signal (3-pin XLR cable is optional)	
7. LOCK CATCH	Used for splicing multiple fixtures	

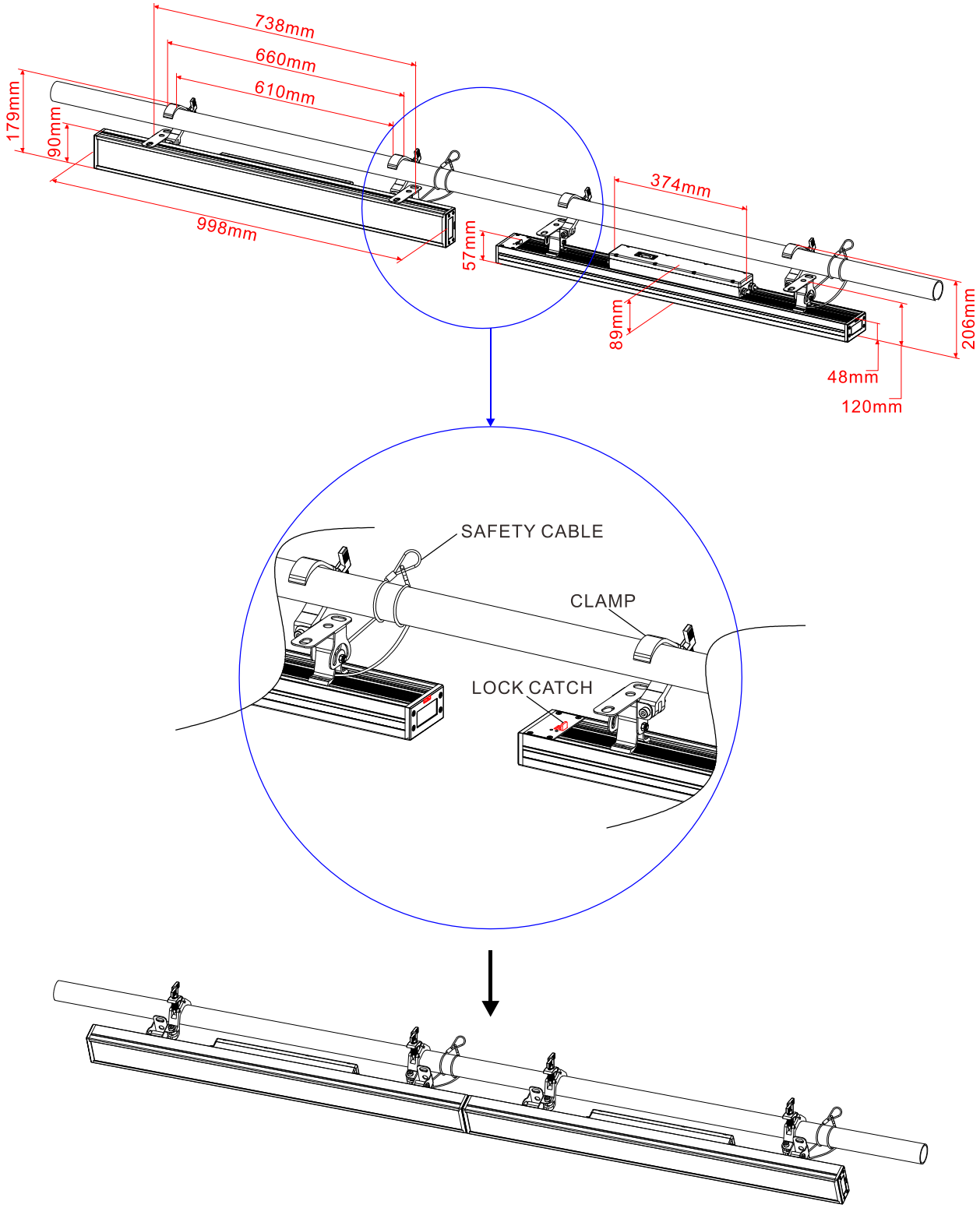
04/ Fixture Installation

- DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.
- Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always attach a safety cable that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.
- This fixture is fully operational in three different mounting positions: hanging on trussing, mounted sideways on trussing, or standing on the floor. Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.



4.1 Connecting and Aligning Multiple Fixtures

The fixture can be spliced by the lock catch. First, set the lock catch on the fixture to the “UNLOCK” position, then align it with another fixture (the end with a slot), and finally set the lock catch to the “LOCK” position and lock it into the slot.



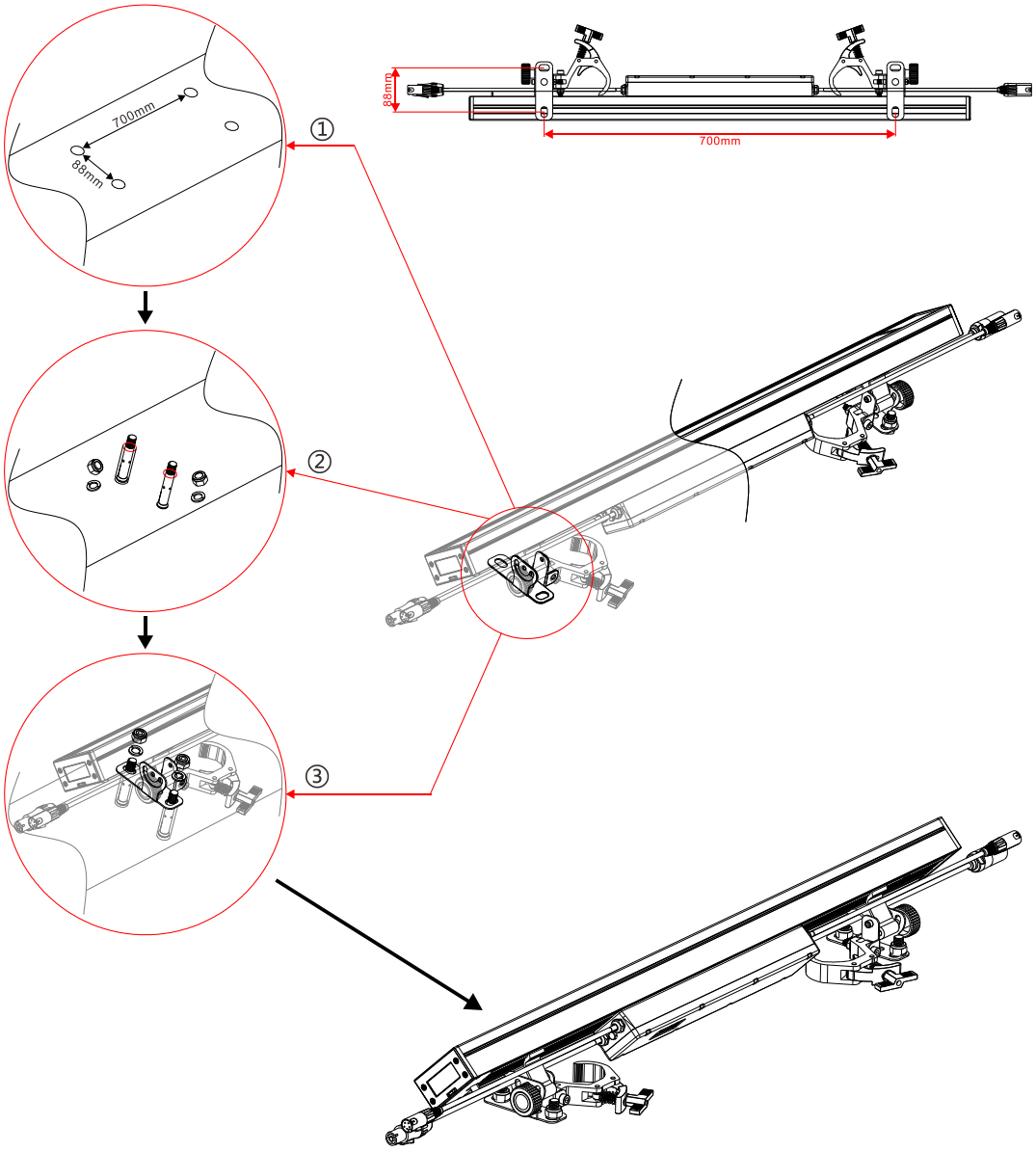
4.2 Stand the Fixture on the Floor

1. Drill four expansion screw holes (for M12 expansion screws) on a flat level surface (such as the ground or a wall) according to the size shown in Figure ①.

2. As shown in Figure ②, unscrew the washers and nuts of the expansion screws, and insert the expansion screw tubes and screws into the drilled screw holes.

3. As shown in Figure ③, align the holes on the brackets of the fixture with the four screws, then put the washers and nuts of the expansion screws in turn and tighten them with a wrench.

4. After tightening the nuts, check whether the fixture is installed firmly, then adjust the fixture to the required angle through the bracket knob.



05/ How To Set The Unit

5.1 Main Functions

- To access the control menus, press the [MENU] button.
- Navigate the menu structure, using the [ENTER], [▲ UP] and [▼ DOWN] buttons.
- To select a menu option or to confirm a selection, press the [ENTER] button.
- To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

The screen will be automatically locked if there is no operation for a long time, and can be unlocked by long-pressing the [MENU] button.

The main functions are shown below:

MENU	SUBMENU	OPTIONS	
DMX Settings	DMX Address	1-438 (75 CH)	(默认值=1)
		1-441 (72 CH)	
		1-497 (16 CH)	
		1-498 (15 CH)	
		1-503 (10 CH)	
		1-505 (8 CH)	
		1-506 (7 CH)	
		1-507 (6 CH)	
	Channel Mode	Mode 1 (75)	
		Mode 2 (72)	
		Mode 3 (16)	
		Mode 4 (15)	
		Mode 5 (10)	
		Mode 6 (8)	
		Mode 7 (7)	
		Mode 8 (6)	
	No DMX Status	Blackout	
		Hold	
		Manual	
	View DMX Value		
Fixture Settings	Dimmer Curve	Linear	
		Square Law	
		Inv SQ Law	
		S Curve	

MENU	SUBMENU	OPTIONS	
	Dimmer Speed	Fast	
		Smooth	
	White Balance	Red	125-255
		Green	125-255
		Blue	125-255
		Amber	125-255
		Red 1	125-255
		Green 1	125-255
		Blue 1	125-255
		Amber 1	125-255
		.....	.....
		Red 12	125-255
		Green 12	125-255
		Blue 12	125-255
		Amber 12	125-255
	Invert Pixel	No	
		Yes	
	LED Frequency	900Hz	
		1000Hz	
		1100Hz	
		1200Hz	
		1300Hz	
		1400Hz	
		1500Hz	
		2500Hz	
		4000Hz	
		5000Hz	
		6000Hz	
		10KHz	
		15KHz	
		20KHz	
		25KHz	
Display Settings	Display Invert	No	
		Yes	
	Temperature Unit	℃	
		°F	
	Language	English	
		Chinese	

MENU	SUBMENU	OPTIONS			
Fixture Test	Auto Test	Single			
		Cycle			
	Manual Test	Mode 1		Mode 2	
		Clear	No/Yes	Clear	No/Yes
		Strobe	0-255	Red	0-255
		Dimmer	0-255	Green	0-255
		Red 1	0-255	Blue	0-255
		Green 1	0-255	White	0-255
		Blue 1	0-255	Amber	0-255
		White 1	0-255	LED W	0-255
		Amber 1	0-255	Strobe	0-255
		.....	.....	Dimmer	0-255
		Red 12	0-255	CTO	0-255
		Green 12	0-255	Color	0-255
		Blue 12	0-255	BK Dimmer	0-255
		White 12	0-255	BK Color	0-255
		Amber 12	0-255	Pixel Select	0-255
		LED W1	0-255	Pixel Speed	0-255
		.....	.....	LED W Select	0-255
		LED W12	0-255	LED W Speed	0-255
Information	Fixture Use Hour				
	LED Use Hour	Total LED Hour			
		LED On Hour			
		LED Hours Reset	No		
			Yes	Password =050	
	Temperature		Current	Max temp	
		LED			
	Firmware Version				
	RDM UID				
	Error Logs	Fixture Errors			
		Reset Error Log	No		
			Yes	Password =050	
Factory Restore	No				
	Yes				

DMX Settings

Enter the control menu and select **DMX Settings**, press ENTER. Use the UP/DOWN button to select **DMX Address, Channel Mode, No DMX Status** or **View DMX Value.**

DMX Address

Select **DMX Address,** press ENTER.

Use UP/DOWN button to select an address, confirm your selection with ENTER.

CHANNEL MODE	ADDRESS
Mode 1 (75)	1-438
Mode 2 (72)	1-441
Mode 3 (16)	1-497
Mode 4 (15)	1-498
Mode 5 (10)	1-503
Mode 6 (8)	1-505
Mode 7 (7)	1-506
Mode 8 (6)	1-507

To exit the menu, press MENU, or wait 30 seconds.

Channel Mode

Select **Channel Mode,** press ENTER.

Use UP/DOWN button to select between **Mode 1 (75), Mode 2 (72), Mode 3 (16), Mode 4 (15), Mode 5 (10), Mode 6 (8), Mode 7 (7)** and **Mode 8 (6)**, confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

No DMX Status

Select **No DMX Status,** press ENTER.

Use UP/DOWN button to select one of the following status:

Blackout (Fixture blacks out if DMX signal stops)

Hold (The device continues to operate in the current mode with the last active DMX values until the signal returns)

Manual (The device accepts the DMX value stored in the 'Manual Test' menu)

Confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

View DMX Value

Select **View DMX Value,** press ENTER.

Use UP/DOWN button to select the desired DMX channel, for which the value is to be displayed.

To exit the menu, press MENU, or wait 30 seconds.

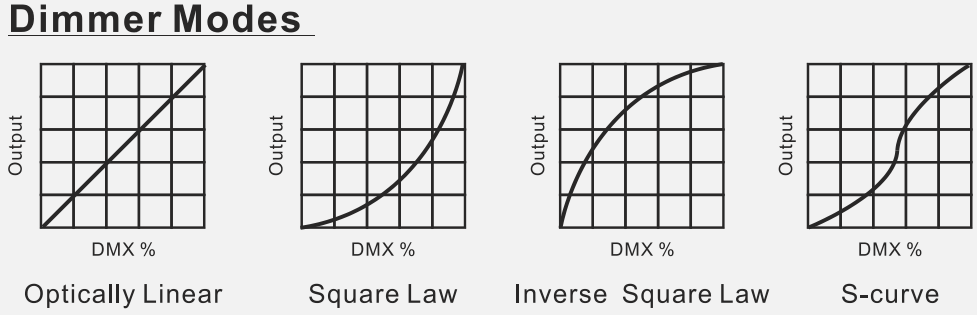
Fixture Settings

Enter the control menu and select **Fixture Settings**, press ENTER. Use the UP/DOWN button to select **Dimmer Curve, Dimmer Speed, White Balance, Invert Pixel** or **LED Frequency.**

Dimmer Curve

Select **Dimmer Curve,** press ENTER.

Use UP/DOWN button to select **Linear, Square Law, Inv SQ Law** or **S Curve**, confirm your selection with ENTER.



To exit the menu, press MENU, or wait 30 seconds.

Dimmer Speed

Select **Dimmer Speed,** press ENTER.
Use UP/DOWN button to select **Fast** or **Smooth**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

White Balance

Select **White Balance,** press ENTER.
Use UP/DOWN button to select **Red, Green, Blue, Amber, Red 1, Green 1, Blue 1, Amber 1…..** or **Red 12, Green 12, Blue 12, Amber 12**, confirm your selection with ENTER.
Use UP/DOWN button to select a value between **125** and **255**, confirm your selection with ENTER.

Invert Pixel

Select **Invert Pixel,** press ENTER.
Use UP/DOWN button to select **No** or **Yes**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

LED Frequency

Select **LED Frequency,** press ENTER.
Use UP/DOWN button to select **900Hz, 1000Hz, 1100Hz, 1200Hz, 1300Hz, 1400Hz, 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz** or **25KHz**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Display Settings

Enter the control menu and select **Display Settings**, press ENTER. Use the UP/DOWN button to select **Display Invert, Temperature Unit** or **Language.**

Display Invert

Select **Display Invert,** press ENTER.
Use UP/DOWN button to select **No** (display normal) or **Yes** (display inverted), confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Temperature Unit

Select **Temperature Unit,** press ENTER.
Use UP/DOWN button to select **°C** or **°F**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Language

Select **Language,** press ENTER.
Use UP/DOWN button to select **English** or **Chinese**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Fixture Test

Enter the control menu and select **Fixture Test**, press ENTER. Use the UP/DOWN button to select **Auto Test** or **Manual Test.**

Auto Test

Select **Auto Test,** press ENTER.
Use UP/DOWN button to select **Single** (the device immediately performs a single automatic self-test) or **Cycle** (the device immediately performs a cyclic automatic self-test), confirm your selection with ENTER.
To exit the menu, press MENU.

Manual Test

Select **Manual Test,** press ENTER.
Use UP/DOWN button to select the channel for which the manual test is to be performed, confirm your selection with ENTER.
Use UP/DOWN button to select a value, confirm your selection with ENTER.
To exit the menu, press MENU.
(The device returns to its original DMX state after the manual test. The test values are saved automatically when the device is switched off.)

Information

Enter the control menu and select **Information**, press ENTER. Use the UP/DOWN button to select **Fixture Use Hour, LED Use Hour, Temperature, Firmware Version, RDM UID** or **Error Logs.**

Fixture Use Hour

Select **Fixture Use Hour,** press ENTER.
The operating hours is displayed.
To exit the menu, press MENU, or wait 30 seconds.

LED Use Hour

Select **LED Use Hour,** press ENTER.
Use UP/DOWN button to select **Total LED Hour** (total time) or **LED On Hour** (current switch-on time), confirm your selection with ENTER.
The total time or current switch-on time is displayed.
Use UP/DOWN button to select **LED Hours Reset**, confirm your selection with ENTER.
If you wish to reset the relevant LED operating hours, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.
If you select **Yes**, use UP/DOWN button to set the password 050, confirm your selection with ENTER. The LED operating hours is reset.
To exit the menu, press MENU, or wait 30 seconds.

Temperature

Select **Temperature,** press ENTER.
The device temperature is displayed.
To exit the menu, press MENU, or wait 30 seconds.

Firmware Version

Select **Firmware Version,** press ENTER.
The firmware version is displayed.
To exit the menu, press MENU, or wait 30 seconds.

RDM UID

Select **RDM UID,** press ENTER.
The RDM UID is displayed.
To exit the menu, press MENU, or wait 30 seconds.

Error Logs

Select **Error Logs,** press ENTER.
Use UP/DOWN button to select **Fixture Errors**, confirm your selection with ENTER.
The error list is displayed.
Use UP/DOWN button to select **Reset Error Log**, confirm your selection with ENTER.
If you wish to reset the relevant error logs, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.
If you select **Yes**, use UP/DOWN button to set the password 050, confirm your selection with ENTER. The relevant error logs are reset.
To exit the menu, press MENU, or wait 30 seconds.

Factory Restore

Select **Factory Restore,** press ENTER.
If you wish to reset the device to the factory settings, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

RDM functions: Certain menus of the device and functions can be called up via the RDM protocol.

The parameter IDs are implemented as follows for different commands:

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	√		
DISC_MUTE	√		
DISC_UN_MUTE	√		
DEVICE_INFO			√
SUPPORTED_PARAMETERS			√
SOFTWARE_VERSION_LABEL			√
DMX_START_ADDRESS		√	√
IDENTIFY_DEVICE		√	√
DEVICE_MODEL_DESCRIPTION			√
PARAMETER_DESCRIPTION			√
MANUFACTURER_LABEL			√
DEVICE_LABEL		√	√
FACTORY_DEFAULTS		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
DEVICE_HOURS			√
LAMP_HOURS			√
RESET_DEVICE		√	
CURVE		√	√
DMX_STATE		√	√
DIMMER_SPEED		√	√

√ -Command implemented for the respective parameter ID

5.2 Home Position Adjustment

- To access the control menus, press the [MENU] button.
- To access the offset menus, long-press the [ENTER] button.
- Navigate the offset menus, using the [ENTER], [⮝ UP] and [⮟ DOWN] buttons.
- To select a menu option or to confirm a selection, press the [ENTER] button.
- To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

OFFSET MENU	VALUES
Red	0~255
Green	0~255
Blue	0~255
White	0~255
Amber	0~255
LED White	0~255
Red 1	0~255
Green 1	0~255
Blue 1	0~255
White 1	0~255
Amber 1	0~255
.....	.....
Red 12	0~255
Green 12	0~255
Blue 12	0~255
White 12	0~255
Amber 12	0~255
LED White 1	0~255
.....	.....
LED White 12	0~255

Red

Select **Red,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Green

Select **Green,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Blue

Select **Blue,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

White

Select **White,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Amber

Select **Amber,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

LED White

Select **LED White,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Red 1

Select **Red 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Green 1

Select **Green 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Blue 1

Select **Blue 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

White 1

Select **White 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Amber 1

Select **Amber 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

.....

Red 12

Select **Red 12,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Green 12

Select **Green 12,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Blue 12

Select **Blue 12,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

White 12

Select **White 12,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Amber 12

Select **Amber 12,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

LED White 1

Select **LED White 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

.....

LED White 12

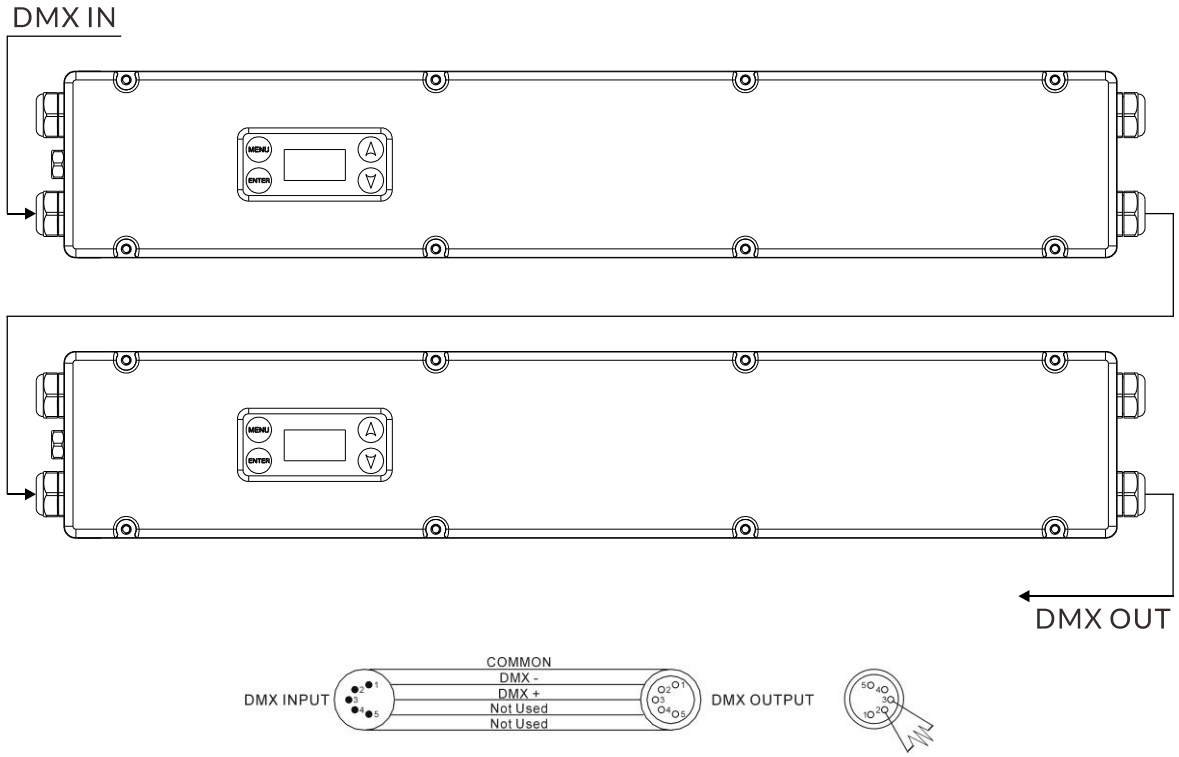
Select **LED White 12,** press ENTER.

Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

06/ Control By Universal DMX Controller

6.1 DMX512 Connection



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 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 can only be used in series and cannot be connected in parallel. 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. When wiring 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+). When wiring 5 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

6.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address between 1 and 512 so that the units can receive DMX signal.

Press the MENU button to access the control menus, select DMX Settings, press the ENTER button to confirm. Use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will show on the display. Use the UP/DOWN button to adjust the address between 001 and 512, press the ENTER button to store. To exit the menu, press MENU, or wait 30 seconds.

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
75 channels	1	76	151	226
72 channels	1	73	145	217
16 channels	1	17	33	49
15 channels	1	16	31	46
10 channels	1	11	21	31
8 channels	1	9	17	25
7 channels	1	8	15	22
6 channels	1	7	13	19

6.3 DMX512 Configuration

Please control the fixture by referring to the configurations below.

Attentions:

- The unit will maintain the last condition until reset if you cut-off the DMX signal.
- For the channel Function, keep the value for about 3 seconds, then the corresponding function will take into effect.

75ch (Mode 1) / 72ch (Mode 2):

CHANNEL		VALUE	FUNCTION
75ch	72ch		
1		000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**STROBE** Close Open Strobe from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Random Strobe from Slow to Fast Open
2		000-255	**DIMMER** 0%→100%
3		000-255	**DIMMER FINE**
4	1	000-255	**RED 1** 0%→100%
5	2	000-255	**GREEN 1** 0%→100%
6	3	000-255	**BLUE 1** 0%→100%
7	4	000-255	**WHITE 1** 0%→100%
8	5	000-255	**AMBER 1** 0%→100%
9	6	000-255	**RED 2** 0%→100%
10	7	000-255	**GREEN 2** 0%→100%
11	8	000-255	**BLUE 2** 0%→100%
12	9	000-255	**WHITE 2** 0%→100%
13	10		**AMBER 2**

		000-255	0%→100%
14	11	000-255	**RED 3** 0%→100%
15	12	000-255	**GREEN 3** 0%→100%
16	13	000-255	**BLUE 3** 0%→100%
17	14	000-255	**WHITE 3** 0%→100%
18	15	000-255	**AMBER 3** 0%→100%
19	16	000-255	**RED 4** 0%→100%
20	17	000-255	**GREEN 4** 0%→100%
21	18	000-255	**BLUE 4** 0%→100%
22	19	000-255	**WHITE 4** 0%→100%
23	20	000-255	**AMBER 4** 0%→100%
24	21	000-255	**RED 5** 0%→100%
25	22	000-255	**GREEN 5** 0%→100%
26	23	000-255	**BLUE 5** 0%→100%
27	24	000-255	**WHITE 5** 0%→100%
28	25	000-255	**AMBER 5** 0%→100%
29	26	000-255	**RED 6** 0%→100%
30	27	000-255	**GREEN 6** 0%→100%
31	28	000-255	**BLUE 6** 0%→100%
32	29	000-255	**WHITE 6** 0%→100%
33	30	000-255	**AMBER 6** 0%→100%
34	31	000-255	**RED 7** 0%→100%
35	32	000-255	**GREEN 7** 0%→100%
36	33	000-255	**BLUE 7** 0%→100%
37	34	000-255	**WHITE 7** 0%→100%

38	35	000-255	**AMBER 7** 0%→100%
39	36	000-255	**RED 8** 0%→100%
40	37	000-255	**GREEN 8** 0%→100%
41	38	000-255	**BLUE 8** 0%→100%
42	39	000-255	**WHITE 8** 0%→100%
43	40	000-255	**AMBER 8** 0%→100%
44	41	000-255	**RED 9** 0%→100%
45	42	000-255	**GREEN 9** 0%→100%
46	43	000-255	**BLUE 9** 0%→100%
47	44	000-255	**WHITE 9** 0%→100%
48	45	000-255	**AMBER 9** 0%→100%
49	46	000-255	**RED 10** 0%→100%
50	47	000-255	**GREEN 10** 0%→100%
51	48	000-255	**BLUE 10** 0%→100%
52	49	000-255	**WHITE 10** 0%→100%
53	50	000-255	**AMBER 10** 0%→100%
54	51	000-255	**RED 11** 0%→100%
55	52	000-255	**GREEN 11** 0%→100%
56	53	000-255	**BLUE 11** 0%→100%
57	54	000-255	**WHITE 11** 0%→100%
58	55	000-255	**AMBER 11** 0%→100%
59	56	000-255	**RED 12** 0%→100%
60	57	000-255	**GREEN 12** 0%→100%
61	58	000-255	**BLUE 12** 0%→100%
62	59	000-255	**WHITE 12** 0%→100%

63	60	000-255	AMBER 12 0%→100%
64	61	000-255	LED WHITE 1 0%→100%
65	62	000-255	LED WHITE 2 0%→100%
66	63	000-255	LED WHITE 3 0%→100%
67	64	000-255	LED WHITE 4 0%→100%
68	65	000-255	LED WHITE 5 0%→100%
69	66	000-255	LED WHITE 6 0%→100%
70	67	000-255	LED WHITE 7 0%→100%
71	68	000-255	LED WHITE 8 0%→100%
72	69	000-255	LED WHITE 9 0%→100%
73	70	000-255	LED WHITE 10 0%→100%
74	71	000-255	LED WHITE 11 0%→100%
75	72	000-255	LED WHITE 12 0%→100%

16ch (Mode 3)/ 15ch (Mode 4)/ 10ch (Mode 5)/ 8ch (Mode 6)/ 7ch (Mode 7)/ 6ch (Mode 8):

CHANNEL						VALUE	FUNCTION
16ch	15ch	10ch	8ch	7ch	6ch		
1	1	1	1	1	1	000-255	**RED** 0%→100%
	2					000-255	**RED FINE**
2	3	2	2	2	2	000-255	**GREEN** 0%→100%
	4					000-255	**GREEN FINE**
3	5	3	3	3	3	000-255	**BLUE** 0%→100%
	6					000-255	**BLUE FINE**
4	7	4	4	4	4	000-255	**WHITE** 0%→100%
	8					000-255	**WHITE FINE**
5	9	5	5	5	5	000-255	**AMBER** 0%→100%
	10					000-255	**AMBER FINE**
6	11	6	6	6	6	000-255	**LED WHITE** 0%→100%
	12					000-255	**LED WHITE FINE**
7	13	7	8	7		**STROBE** 000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Close Open Strobe from Slow to Fast Open Slow Open Fast Close from Slow to Fast Open Fast Open Slow Close from Slow to Fast Open Random Strobe from Slow to Fast Open
8	14	8	7			000-255	**DIMMER** 0%→100%
	15					000-255	**DIMMER FINE**
9		9				**CTO (8000K-2500K)** 000 001-004 005-009 010-013 014-018 019-022 023-027 028-031 032-036	Null 8000K 7900K 7800K 7700K 7600K 7500K 7400K 7300K

						037-040	7200K
						041-045	7100K
						046-049	7000K
						050-054	6900K
						055-058	6800K
						059-063	6700K
						064-067	6600K
						068-072	6500K
						073-076	6400K
						077-081	6300K
						082-085	6200K
						086-090	6100K
						091-094	6000K
						095-099	5900K
						100-103	5800K
						104-108	5700K
						109-112	5600K
						113-117	5500K
						118-121	5400K
						122-126	5300K
						127-130	5200K
						131-135	5100K
						136-139	5000K
						140-144	4900K
						145-148	4800K
						149-153	4700K
						154-157	4600K
						158-162	4500K
						163-166	4400K
						167-171	4300K
						172-175	4200K
						176-180	4100K
						181-184	4000K
						185-189	3900K
						190-193	3800K
						194-198	3700K
						199-202	3600K
						203-207	3500K
						208-211	3400K
						212-216	3300K
						217-220	3200K
						221-225	3100K
						226-229	3000K
						230-234	2900K
						235-238	2800K
						239-243	2700K
						244-247	2600K
						248-255	2500K
10		**10**					**COLOR MACRO**
						000-009	Open
						010-014	LEE 790-Moroccan Pink
						015-019	LEE 157-Pink
						020-024	LEE 332-Special Rose Pink
						025-029	LEE 328-Follies Pink

						030-034	LEE 345-Fuchsia Pink
						035-039	LEE 194-Surprise Pink
						040-044	LEE 181-Congo Blue
						045-049	LEE 071-Tokyo Blue
						050-054	LEE 120-Deep Blue
						055-059	LEE 079-Just Blue
						060-064	LEE 132-Medium Blue
						065-069	LEE 200-Double CT Blue
						070-074	LEE 161-State Blue
						075-079	LEE 201-Full CT Blue
						080-084	LEE 202-Half CT Blue
						085-089	LEE 117-Steel Blue
						090-094	LEE 353-Lighter Blue
						095-099	LEE 118-Light Blue
						100-104	LEE 116-Medium Blue Green
						105-109	LEE 124-Dark Green
						110-114	LEE 139-Primary Green
						115-119	LEE 089-Moss Green
						120-124	LEE 122-Fern Green
						125-129	LEE 738-JAS Green
						130-134	LEE 088-Lime Green
						135-139	LEE 100-Spring Yellow
						140-144	LEE 104-Deep Amber
						145-149	LEE 179-Chrome Orange
						150-154	LEE 105-Orange
						155-159	LEE 021-Gold Amber
						160-164	LEE 778-Millennium Gold
						165-169	LEE 135-Deep Gold Amber
						170-174	LEE 164-Flame Red
						175-179	Open
						180-201	Clockwise Rotation, Fast to Slow
						202-207	Stop
						208-229	Counter-Clockwise Rotation, Slow to Fast
						230-234	Open
						235-239	Random Color: Fast
						240-244	Random Color: Medium
						245-249	Random Color: Slow
						250-255	Open
11							**BACKGROUND DIMMER**
						000-255	0%→100%
12							**BACKGROUND COLOR**
						000-009	Open
						010-014	LEE 790-Moroccan Pink
						015-019	LEE 157-Pink
						020-024	LEE 332-Special Rose Pink
						025-029	LEE 328-Follies Pink
						030-034	LEE 345-Fuchsia Pink
						035-039	LEE 194-Surprise Pink
						040-044	LEE 181-Congo Blue
						045-049	LEE 071-Tokyo Blue
						050-054	LEE 120-Deep Blue
						055-059	LEE 079-Just Blue
						060-064	LEE 132-Medium Blue
						065-069	LEE 200-Double CT Blue

						070-074	LEE 161-State Blue
						075-079	LEE 201-Full CT Blue
						080-084	LEE 202-Half CT Blue
						085-089	LEE 117-Steel Blue
						090-094	LEE 353-Lighter Blue
						095-099	LEE 118-Light Blue
						100-104	LEE 116-Medium Blue Green
						105-109	LEE 124-Dark Green
						110-114	LEE 139-Primary Green
						115-119	LEE 089-Moss Green
						120-124	LEE 122-Fern Green
						125-129	LEE 738-JAS Green
						130-134	LEE 088-Lime Green
						135-139	LEE 100-Spring Yellow
						140-144	LEE 104-Deep Amber
						145-149	LEE 179-Chrome Orange
						150-154	LEE 105-Orange
						155-159	LEE 021-Gold Amber
						160-164	LEE 778-Millennium Gold
						165-169	LEE 135-Deep Gold Amber
						170-174	LEE 164-Flame Red
						175-179	Open
						180-201	Clockwise Rotation, Fast to Slow
						202-207	Stop
						208-229	Counter-clockwise Rotation, Slow to Fast
						230-234	Open
						235-239	Random Color: Fast
						240-244	Random Color: Medium
						245-249	Random Color: Slow
						250-255	Open
13							**PIXEL EFFECT SELECT**
						000-003	Open
						004-007	Built-in Effect 1
						008-011	Built-in Effect 2
						012-015	Built-in Effect 3
						016-019	Built-in Effect 4
						020-023	Built-in Effect 5
						024-027	Built-in Effect 6
						028-031	Built-in Effect 7
						032-035	Built-in Effect 8
						036-039	Built-in Effect 9
						040-043	Built-in Effect 10
						044-047	Built-in Effect 11
						048-051	Built-in Effect 12
						052-055	Built-in Effect 13
						056-059	Built-in Effect 14
						060-063	Built-in Effect 15
						064-067	Built-in Effect 16
						068-071	Built-in Effect 17
						072-075	Built-in Effect 18
						076-079	Built-in Effect 19
						080-083	Built-in Effect 20
						084-087	Built-in Effect 21
						088-091	Built-in Effect 22

						092-095	Built-in Effect 23
						096-099	Built-in Effect 24
						100-103	Built-in Effect 25
						104-107	Built-in Effect 26
						108-111	Built-in Effect 27
						112-115	Built-in Effect 28
						116-119	Built-in Effect 29
						120-123	Built-in Effect 30
						124-127	Built-in Effect 31
						128-131	Built-in Effect 32
						132-135	Built-in Effect 33
						136-255	Null
14							**PIXEL EFFECT SPEED**
						000-127	Slow to Fast without Fade
						128-255	Slow to Fast Fade
15							**LED W EFFECT SELECT**
						000-007	Open
						008-011	Built-in Effect 1
						012-015	Built-in Effect 2
						016-019	Built-in Effect 3
						020-023	Built-in Effect 4
						024-027	Built-in Effect 5
						028-031	Built-in Effect 6
						032-035	Built-in Effect 7
						036-039	Built-in Effect 8
						040-043	Built-in Effect 9
						044-047	Built-in Effect 10
						048-051	Built-in Effect 11
						052-055	Built-in Effect 12
						056-059	Built-in Effect 13
						060-063	Built-in Effect 14
						064-067	Built-in Effect 15
						068-071	Built-in Effect 16
						072-075	Built-in Effect 17
						076-079	Built-in Effect 18
						080-083	Built-in Effect 19
						084-087	Built-in Effect 20
						088-091	Built-in Effect 21
						092-095	Built-in Effect 22
						096-099	Built-in Effect 23
						100-103	Built-in Effect 24
						104-107	Built-in Effect 25
						108-111	Built-in Effect 26
						112-115	Built-in Effect 27
						116-119	Built-in Effect 28
						120-123	Built-in Effect 29
						124-127	Built-in Effect 30
						128-131	Built-in Effect 31
						132-135	Built-in Effect 32
						136-255	Null
16							**LED W EFFECT SPEED**
						000-127	Slow to Fast without Fade
						128-255	Slow to Fast Fade

07/ Error Information

Error codes are shown continuously in the display when the fixture fails and they will not disappear until the fixture is repaired.

CPU-B/C/D/E Error

Check whether the 485 (DATA) leads on the PCB board are installed in place or disconnected.
Check whether the related 485 (DATA) signal circuit on the PCB board is damaged.

LED Temp. 1/2/3/4 Error

Check whether the temperature detecting board is normal.
Check whether the components of the temperature detecting board are damaged.
Check whether the lead on the temperature detecting board is installed in place or disconnected.

LED Too Hot Off

When the fixture temperature reaches 75℃, it will automatically turn off to protect the fixture.

LED Timeout Use

08/ Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for troubleshooting:

A. The unit does not work, no light and the fan does not work

- Check the connected power.
- Measure the voltage.
- Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

- Check whether the DMX connectors and the DMX cables are connected correctly.
- Check whether the DMX address is correctly set.
- If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
- Try it with another DMX controller.
- Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.

09/ 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.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 2014/30/EU.

EN 55032: 2015+A1: 2020; EN 55035: 2017+A11: 2020;
EN IEC 61000-3-2: 2019+A1: 2021;
EN 61000-3-3: 2013+A2: 2021.

&
Harmonized Standard

EN IEC 60598-2-17: 2018;
EN IEC 60598-1: 2021/A11: 2022.
Safety of household and similar electrical appliances
Part 1: General requirements and tests