

**User Manual** 

Please read the instruction carefully before use

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### **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.

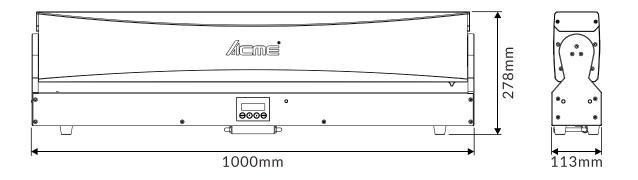
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. 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 60 °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.

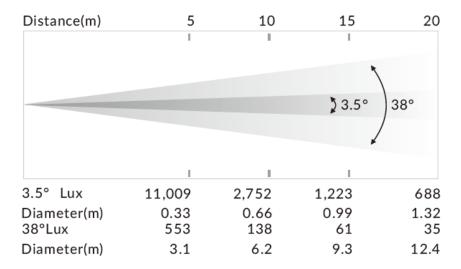
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 0.5 meters.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- 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**

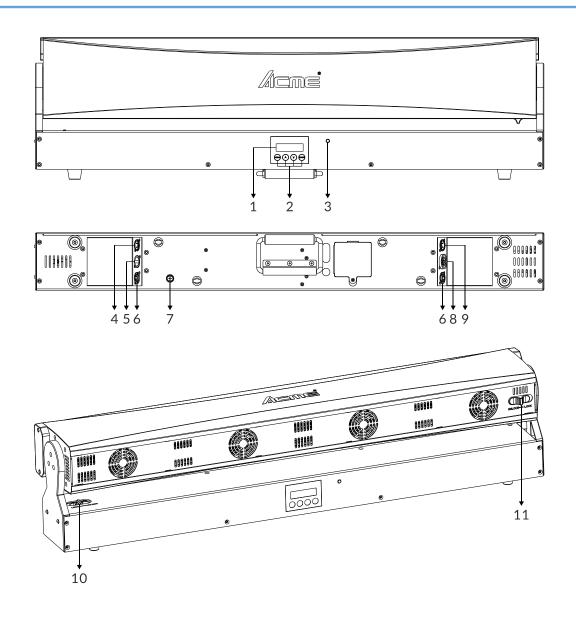
Power Voltage	100-240V~ 50/60Hz			
<b>Power Consumption</b>	440W			
Light Source	12x30W RGBW LED			
Zoom Range	3.5°-38°			
Dimmer/Strobe	0-100% smooth dimming; outstanding strobe effect with variable speed			
Tilt Movement	220°			
	DMX Channel	57/14/9+ CI	nannels	
		DMX512		
Control	Control Mode	RDM		
		Art-Net		
	Firmware Upgrade	Firmware Upgrade via DMX link		
	Display	OLED displa	у	
	Battery backup for user setup without mains connection			
Construction	Data In/Out	5-pin XLR (3-pin XLR is optional)		
Construction		RJ45 Connector		
	Power In/Out	Power Connector in/out		
	Protection Rating	IP20		
Features	Motorized zoom			
reatures	Outstanding color mixing	ng effect		
Dimensions	1000x113x278mm		39.4"x4.4"x10.9"in	
Weight	18.5kgs		40.8lbs	



## Photometric Diagram:



## 03/ Control Panel

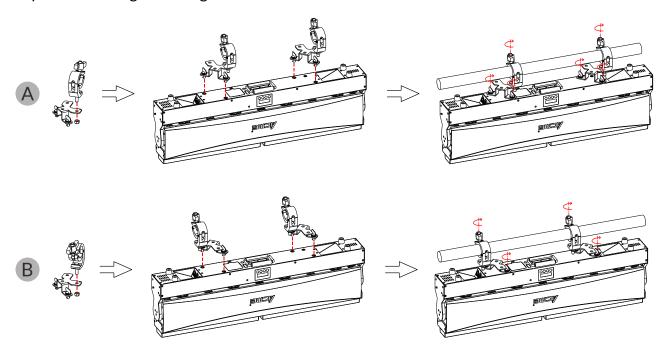


1. Display	To show the various menus and the selected function			
	MENU	To enter into move backward or leave the menu		
2 Duttons	▲ UP	To go backward to move up in the menu		
2. Buttons	<b>→</b> DOWN	To go forward to move down in the menu		
	ENTER	To perform the desired functions		
3. OFFLINE SETTIN	3. OFFLINE SETTING			
4. 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)			
5. POWER IN	To connect to supply power			
6. ETHERNET	Transfers fixture's information to a main controller			
7. FUSE(T 10A)	Protects the u	Protects the unit from damage of over current or short circuit		
8. POWER OUT	To connect to	To connect to the next fixture		
9. 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)			
10. BUTTON 1	When splicing the fixtures, push it to the "LOCK" position			
11. BUTTON 2	Tilt lock. Push it to the "UNLOCK" position before powering up the fixture			

#### 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 upside-down, mounted sideways on trussing, or standing on the floor. Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Steps for installing the omega brackets to the fixture:



## **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 main functions are shown below:

MENU	SUBMENU		0	PTIONS		
		Ethernet IP Setup		IP Address		
				Subnet Mask		
	Art-Net Setup			Net	0-127	
		Art-Net P	ort Setup	Subnet	0-15	
				Universe	0-15	
		1-456 (57	<sup>7</sup> CH)			
DMX Setting	DMX Address	1-499 (14 CH) (Default=1)				
DIVIA Setting		1-504 (9+	- CH)			
		57 CH				
	Channel Mode	14 CH				
		9+				
	RDM Device ID					
	Mode 3 DMX Addr 1-504 (9+ CH)					
	Mode 3 ART Addr	1-465 (9+ CH)				
	Blackout					
DMX Last State	Hold					
	Manu					
			Color Calibration			
		Color Calibration		Enable		
	Light Mode		White Balance	Red	125-255	
		Max		Green	125-255	
Fixture Setting			Balarice	Blue	125-255	
		Optically Linear				
	Dimmer Curve	Square Law				
		Inverse Square Law				
		S Curve				

MENU	SUBMENU	OPTIONS	
	Discuss on Consort	Smooth	
	Dimmer Speed	Fast	
	Local Tile	Disable	
	Invert Tilt	Enable	
	T'11 F 11 1	Disable	
	Tilt Feedback	Enable	
		Disable	
	Bl. O. Tilt Moving	Enable	
	Fan Mada	Silent	
	Fan Mode	Auto	
	Invest Birel Order	Disable	
	Invert Pixel Order	Enable	
	Auto at ta DNAV	Disable	
	Artnet to DMX	Enable	
Auto Test			
	Tilt	0-255	
	Zoom	0-255	
	Dimmer	0-255	
Manual Mada	Strobe	0-255	
Manual Mode	Red	0-255	
	Green	0-255	
	Blue	0-255	
	White	0-255	
	1	No	
	Inverse	Yes	
	Tanan anakuma I linik	°C	
Diamlar Cattina	Temperature Unit	°F	
Display Setting	Dienlay Marriss	Disable	
	Display Warning	Enable	
	Longuess	English	
	Language	Chinese	
	LED Temperature		
	Fixture Usage Time		
Fixture Information	LED Light Time		
	Fan Speed		
	Firmware Version		

MENU	SUBMENU	OPTIONS
	AII	No
	All	Yes
Deast Franction	n I Tilt ⊢	No
Reset Function		Yes
	Zoom	No
		Yes
Factor Catting	No	
Factory Setting	Yes	

#### **DMX Setting**

Enter the control menu and select **DMX Setting**, press ENTER. Use the UP/DOWN button to select **Art-Net Setup**, **DMX Address**, **Channel Mode**, **RDM Device ID**, **Mode 3 DMX Addr** or **Mode 3 ART Addr**.

#### **Art-Net Setup**

Select Art-Net Setup, press ENTER.

Use UP/DOWN button to select **Ethernet IP Setup** or **Artnet Port Setup**, confirm your selection with ENTER.

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

#### **DMX Address**

Select **DMX Address**, press ENTER.

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

CHANNEL MODE	ADDRESS
57 CH	1-456
14 CH	1-499
9+	1-504

#### Channel Mode

Select **DMX Channel Mode**, press ENTER.

Use UP/DOWN button to select between **57 CH, 14 CH** and **9+**, confirm your selection with ENTER.

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

#### **RDM Device ID**

Select **RDM Device ID**, press ENTER.

The RDM device ID is displayed.

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

#### Mode 3 DMX Addr

Select Mode 3 DMX Addr, press ENTER.

Use UP/DOWN button to select a DMX address from 1 to 504, confirm your selection with ENTER.

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

#### Mode 3 ART Addr

Select Mode 3 ART Addr, press ENTER.

Use UP/DOWN button to select a Artnet address from 1 to 465, confirm your selection with ENTER.

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

#### **DMX Last State**

Select **DMX Last State**, 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 Mode' menu)

Confirm your selection with ENTER.

#### **Fixture Setting**

Enter the control menu and select **Fixture Setting**, press ENTER. Use the UP/DOWN button to select **Light Mode**, **Dimmer Curve**, **Dimmer Speed**, **Invert Tilt**, **Tilt Feedback**, **Bl. O. Tilt Moving**, **Fan Mode**, **Invert Pixel Order** or **Artnet to DMX**.

#### Light Mode

Select Light Mode, press ENTER.

Use UP/DOWN button to select **Color Calibration** or **Max**, confirm your selection with ENTER.

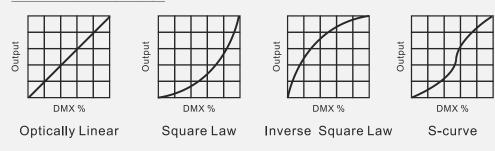
To exit the menu, press MENU, or wait 30 seconds.

#### **Dimmer Curve**

Select **Dimmer Curve**, press ENTER.

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

#### Dimmer Modes



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

#### **Dimmer Speed**

Select Dimmer Speed, press ENTER.

Use UP/DOWN button to select **Smooth** or **Fast**, confirm your selection with ENTER.

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

#### **Invert Tilt**

Select Invert Tilt, press ENTER.

Use UP/DOWN button to select **Disable** (tilt invert deactivated) or **Enable** (tilt invert activated), confirm your selection with ENTER.

#### Tilt Feedback

Select **Tilt Feedback**, press ENTER.

Use UP/DOWN button to select **Disable** (tilt feedback deactivated) or **Enable** (tilt feedback activated), confirm your selection with ENTER.

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

#### Bl. O. Tilt Moving

Select Bl. O. Tilt Moving, press ENTER.

Use UP/DOWN button to select **Disable** (blacks out while tilt move deactivated) or **Enable** (blacks out while tilt move activated), confirm your selection with ENTER.

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

#### Fan Mode

Select Fan Mode, press ENTER.

Use UP/DOWN button to select **Silent** or **Auto**, confirm your selection with ENTER.

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

#### **Invert Pixel Order**

Select Invert Pixel Order, press ENTER.

Use UP/DOWN button to select **Disable** or **Enable**, confirm your selection with ENTER.

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

#### **Artnet to DMX**

Select **Artnet to DMX**, press ENTER.

Use UP/DOWN button to select **Disable** or **Enable**, confirm your selection with ENTER.

#### **Auto Test**

Select Auto Test, press ENTER.

The device immediately performs an automatic self-test.

To end the automatic self-test and exit the menu, press MENU, or wait 30 seconds.

#### Manual Mode

Select Manual Mode, 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, or wait 30 seconds.

(The device returns to its original DMX state after the manual test. The test values are saved automatically when the device is switched off.)

#### **Display Setting**

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

#### **Inverse**

Select **Inverse**, 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.

#### **Display Warning**

Select **Display Warning**, press ENTER.

Use UP/DOWN button to select **Disable** or **Enable**, 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 Information**

Enter the control menu and select **Fixture Information**, press ENTER. Use the UP/DOWN button to select **LED Temperature**, **Fixture Usage Time**, **LED Light Time**, **Fan Speed** or **Firmware Version**.

#### **LED Temperature**

Select **LED Temperature**, press ENTER.

The device temperature is displayed.

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

#### **Fixture Usage Time**

Select **Fixture Usage Time**, press ENTER.

The operating hours is displayed.

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

#### **LED Light Time**

Select **LED Light Time**, press ENTER.

The LED operating hours is displayed.

#### Fan Speed

Select Fan Speed, press ENTER.

The fan speed 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.

#### **Reset Function**

Enter the control menu and select **Reset Function**, press ENTER. Use the UP/DOWN button to select **All**, **Tilt** or **Zoom**.

#### All

Select All, press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset all to their home positions), confirm your selection with ENTER.

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

#### Tilt

Select **Tilt**, press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset tilt to its home positions), confirm your selection with ENTER.

#### Zoom

Select Zoom, press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset zoom to its home positions), confirm your selection with ENTER.

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

## **Factory Setting**

Select **Factory Setting**, 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.

# 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			√
TILT_INVERT		√	√
RESET_DEVICE		√	
CURVE		√	√
DMX_STATE		√	√
DIMMER_SPEED		√	√

 $\checkmark$  -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.

		VALUES	
	Tilt Offset		-128~127
Motor Offset	Zoom 1	Offset	-128~127
	Zoom 2 Offset		-128~127
	White Balance 1	Red	125~255
White Balance	*****	Green	125~255
	White Balance 12	Blue	125~255

#### **Motor Offset**

Select Motor Offset, press ENTER.

Use UP/DOWN button to select **Tilt Offset**, **Zoom 1 Offset** or **Zoom 2 Offset**, confirm your selection with ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

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

#### White Balance

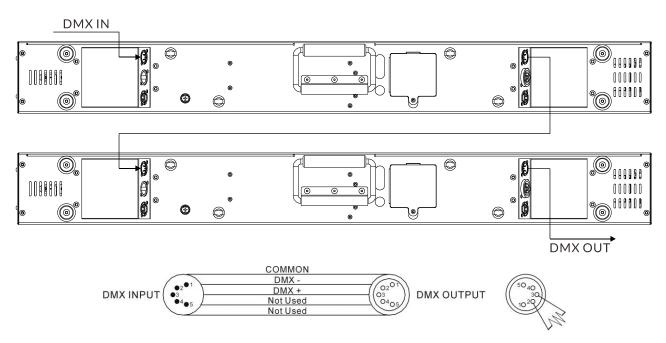
Select White Balance, press ENTER.

Use UP/DOWN button to select **White Balance 1, White Balance 2,.....** or **White Balance 12**, confirm your selection with ENTER.

Use UP/DOWN button to select **Red, Green** or **Blue**, confirm your selection with ENTER.

Use UP/DOWN button to select a value between 125 and 255, confirm your selection with ENTER.

#### 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. 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.

## 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 Setting, 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
57 channels	1	58	105	162
14 channels	1	15	29	43
9+ channels (Controlled by DMX)	1	10	19	28
9+ channels (Controlled by Art-Net)	1	49	97	145

## 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.

## 57 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000 055	Tilt
	000-255	0°→220°
2	000-255	Tilt Fine
	000 007	Tilt Speed
3	000-007 008-247	auto speed slow to fast
	248-255	auto speed
	240 233	Zoom 1
4	000-255	0%→100%
_	000 200	Zoom 2
5	000-255	0%→100%
,		Dimmer
6	000-255	0%→100%
7	000-255	Dimmer Fine
		Strobe
	000-031	Closed
	032-063	Open
	064-095	Strobe from fast to slow
8	096-127	Open
	128-159	Pulse-effect in sequences
	160-191	Open
	192-223	Random strobe from slow to fast
	224-255	Open
9	000-255	<b>LED1 RED</b> 0%→100%
	000-233	LED1 GREEN
10	000-255	0%→100%
	000 233	LED1 BLUE
11	000-255	0%→100%
4.0		LED1 WHITE
12	000-255	0%→100%
40		LED2 RED
13	000-255	0%→100%
14		LED2 GREEN
14	000-255	0%→100%
15		LED2 BLUE
13	000-255	0%→100%
16		LED2 WHITE
10	000-255	0%→100%
17	000 077	LED3 RED
	000-255	0%→100%
18		LED3 GREEN

	000-255	0%→100%
19	000-255	<b>LED3 BLUE</b> 0%→100%
20	000-255	<b>LED3 WHITE</b> 0%→100%
21	000-255	<b>LED 4RED</b> 0%→100%
22	000-255	<b>LED4 GREEN</b> 0%→100%
23	000-255	<b>LED4 BLUE</b> 0%→100%
24	000-255	<b>LED4 WHITE</b> 0%→100%
25	000-255	LED5 RED 0%→100%
26	000-255	<b>LED5 GREEN</b> 0%→100%
27	000-255	<b>LED5 BLUE</b> 0%→100%
28	000-255	<b>LED5 WHITE</b> 0%→100%
29	000-255	LED6 RED 0%→100%
30	000-255	<b>LED6 GREEN</b> 0%→100%
31	000-255	<b>LED6 BLUE</b> 0%→100%
32	000-255	<b>LED6 WHITE</b> 0%→100%
33	000-255	<b>LED7 RED</b> 0%→100%
34	000-255	<b>LED7 GREEN</b> 0%→100%
35	000-255	<b>LED7 BLUE</b> 0%→100%
36	000-255	LED7 WHITE 0%→100%
37	000-255	LED8 RED 0%→100%
38	000-255	LED8 GREEN 0%→100%
39	000-255	<b>LED8 BLUE</b> 0%→100%
40		LED8 WHITE

	000-255	0%→100%
41		LED9 RED
	000-255	0%→100% <b>LED9 GREEN</b>
42	000-255	0%→100%
43	000 055	LED9 BLUE
	000-255	0%→100% <b>LED9 WHITE</b>
44	000-255	0%→100%
45	000-255	<b>LED10 RED</b> 0%→100%
46	000 233	LED10 GREEN
40	000-255	0%→100%
47	000-255	<b>LED10 BLUE</b> 0%→100%
48		LED10WHITE
	000-255	0%→100% LED11 RED
49	000-255	0%→100%
50	000 055	LED11 GREEN
	000-255	0%→100% <b>LED11 BLUE</b>
51	000-255	0%→100%
52	000-255	<b>LED11 WHITE</b> 0%→100%
53	000 233	LED12 RED
53	000-255	0%→100%
54	000-255	<b>LED12 GREEN</b> 0%→100%
55		LED12 BLUE
33	000-255	0%→100% <b>LED12 WHITE</b>
56	000-255	0%→100%
	000 070	Special Function
	000-060 061-080	No function Blackout when tilt moving enable
	081-100	Blackout when tilt moving disable
	101-120	Reset All
57	121-140 141-160	Reset Tilt
	141-160	Reset Zoom Dimmer Speed: Smooth
	181-200	Dimmer Speed: Fast
	201-220	Invert Pixel Order: No
	221-240	Invert Pixel Order: Yes
	241-255	No Function

## 14 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000-255	Tilt 0°→220°
2	000-255	Tilt Fine
3	000-255	<b>Zoom</b> 0%→100%
4	000-255	<b>Dimmer</b> 0%→100%
5	000-255	Dimmer Fine
6	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	Strobe Closed Open Strobe from fast to slow Open Pulse-effect in sequences Open Random strobe from slow to fast Open
7	000-008 009-038 039-068 069-098 099-128 129-158 159-187 188-255	Macro No function macro1 macro2 macro3 macro4 macro5 macro6 macro7
8	000-255	Foreground Color 0%→100%
9	000-255	Background Color 0%→100%
10	000-255	<b>RED</b> 0%→100%
11	000-255	<b>GREEN</b> 0%→100%
12	000-255	<b>BLUE</b> 0%→100%
13	000-255	<b>WHITE</b> 0%→100%
14	000-060 061-080 081-100	Special Function No function Blackout when tilt moving enable Blackout when tilt moving disable

101-120	Reset All
121-140	Reset Tilt
141-160	Reset Zoom
161-180	Dimmer Speed: Smooth
181-200	Dimmer Speed: Fast
201-220	Invert Pixel Order: No
221-240	Invert Pixel Order: Yes
241-255	No Function

## 9+ Channels (Mode 3):

CHANNEL	VALUE	FUNCTION
Controlled by DMX		
1	000-255	<b>Tilt</b> 0°→220°
2	000-255	Tilt Fine
3	000-007 008-247 248-255	<b>Tilt Speed</b> auto speed slow to fast auto speed
4	000-255	<b>Zoom 1</b> 0%→100%
5	000-255	<b>Zoom 2</b> 0%→100%
6	000-255	<b>Dimmer</b> 0%→100%
7	000-255	Dimmer Fine
8	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	Strobe Closed Open Strobe from fast to slow Open Pulse-effect in sequences Open Random strobe from slow to fast Open
9	000-060 061-080 081-100 101-120 121-140 141-160 161-180	Special Function No function Blackout when tilt moving enable Blackout when tilt moving disable Reset All Reset Tilt Reset Zoom Dimmer Speed: Smooth

	464.653	
	181-200 201-220 221-240 241-255	Dimmer Speed: Fast Invert Pixel Order: No Invert Pixel Order: Yes No Function
Controlled by Art-Net		
1	000-255	<b>LED1 RED</b> 0%→100%
2	000-255	<b>LED1 GREEN</b> 0%→100%
3	000-255	<b>LED1 BLUE</b> 0%→100%
4	000-255	<b>LED1 WHITE</b> 0%→100%
5	000-255	<b>LED2 RED</b> 0%→100%
6	000-255	<b>LED2 GREEN</b> 0%→100%
7	000-255	<b>LED2 BLUE</b> 0%→100%
8	000-255	<b>LED2 WHITE</b> 0%→100%
9	000-255	<b>LED3 RED</b> 0%→100%
10	000-255	<b>LED3 GREEN</b> 0%→100%
11	000-255	<b>LED3 BLUE</b> 0%→100%
12	000-255	<b>LED3 WHITE</b> 0%→100%
13	000-255	<b>LED 4RED</b> 0%→100%
14	000-255	<b>LED4 GREEN</b> 0%→100%
15	000-255	<b>LED4 BLUE</b> 0%→100%
16	000-255	<b>LED4 WHITE</b> 0%→100%
17	000-255	<b>LED5 RED</b> 0%→100%
18	000-255	<b>LED5 GREEN</b> 0%→100%
19	000-255	<b>LED5 BLUE</b> 0%→100%

20	000-255	<b>LED5 WHITE</b> 0%→100%
21	000-255	<b>LED6 RED</b> 0%→100%
22	000-255	<b>LED6 GREEN</b> 0%→100%
23	000-255	<b>LED6 BLUE</b> 0%→100%
24	000-255	<b>LED6 WHITE</b> 0%→100%
25	000-255	<b>LED7 RED</b> 0%→100%
26	000-255	<b>LED7 GREEN</b> 0%→100%
27	000-255	<b>LED7 BLUE</b> 0%→100%
28	000-255	<b>LED7 WHITE</b> 0%→100%
29	000-255	LED8 RED 0%→100%
30	000-255	<b>LED8 GREEN</b> 0%→100%
31	000-255	<b>LED8 BLUE</b> 0%→100%
32	000-255	<b>LED8 WHITE</b> 0%→100%
33	000-255	<b>LED9 RED</b> 0%→100%
34	000-255	<b>LED9 GREEN</b> 0%→100%
35	000-255	<b>LED9 BLUE</b> 0%→100%
36	000-255	<b>LED9 WHITE</b> 0%→100%
37	000-255	<b>LED10 RED</b> 0%→100%
38	000-255	<b>LED10 GREEN</b> 0%→100%
39	000-255	<b>LED10 BLUE</b> 0%→100%
40	000-255	<b>LED10WHITE</b> 0%→100%
41	000-255	<b>LED11 RED</b> 0%→100%

42	000-255	<b>LED11 GREEN</b> 0%→100%
43	000-255	<b>LED11 BLUE</b> 0%→100%
44	000-255	<b>LED11 WHITE</b> 0%→100%
45	000-255	<b>LED12 RED</b> 0%→100%
46	000-255	<b>LED12 GREEN</b> 0%→100%
47	000-255	<b>LED12 BLUE</b> 0%→100%
48	000-255	<b>LED12 WHITE</b> 0%→100%

#### 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/F 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.

#### **Tilt Reset Error**

Check whether the position of the tilt where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the tilt operating range.

Check whether the Hall element on the tilt is damaged.

Check whether the lead connecting the Hall element on the tilt and the PCB board is in poor contact or disconnected.

Check whether the motor on the tilt is damaged.

Check whether the related circuit of the motor drive board on the tilt is damage.

#### Tilt Encoder Error

Check whether the encoder on the tilt is damaged.

Check whether the lead connecting the encoder on the tilt and the PCB board is in poor contact or disconnected.

#### Zoom 1/2 Reset Error

Check whether the position of the zoom where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the zoom operating range.

Check whether the Hall element on the zoom is damaged.

Check whether the lead connecting the Hall element on the zoom and the PCB board is in poor contact or disconnected.

Check whether the motor on the zoom is damaged.

Check whether the related circuit of the motor drive board on the zoom is damage.

#### Fan 1/2/3/4/5 Err

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

Check whether the fan is out of order.

#### **Temperature 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.

#### Temp. is too High

Check if the fan is working properly.

Check if the fan speed is normal.

Check if the ambient temperature is abnormal.

## 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 and main fuse.
- 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.

#### C. One of the channels is not working well

- ▶ The stepper motor might be damaged or the cable connected to the PCB might be broken.
- ▶ The motor's drive IC on the PCB might be out of condition.

## 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+A1: 2019+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

