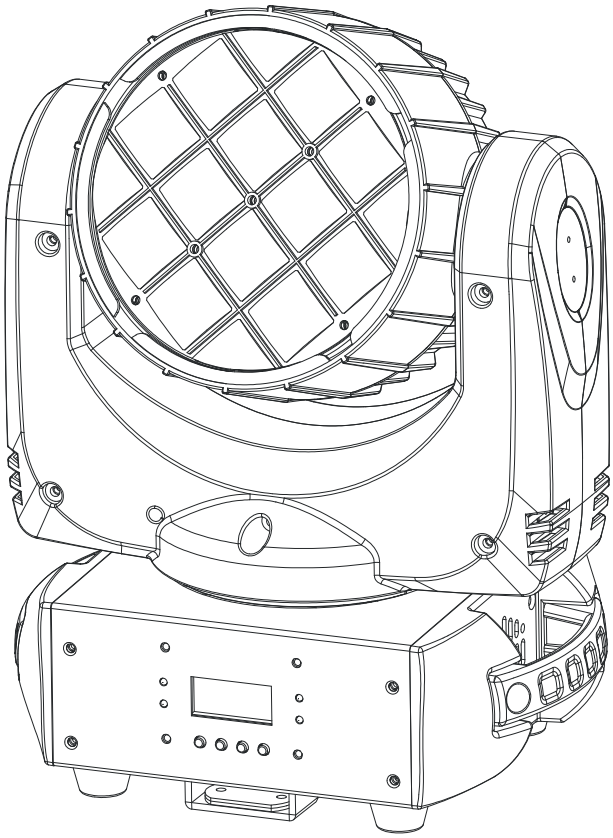
elumen8

KUDOS CYCLONE



Order code: ELUM029

User Manual

www.prolight.co.uk

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1. Safety Instruction

Please read this 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 booklet.

- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cables when fixing this unit. DO NOT handle the unit by its head only, always carry by its base.
- Maximum ambient temperature is Ta: 40 degrees C. DO NOT operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85 degrees C. DO NOT touch the housing with bare-hands during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT touch any wire during operation as high voltage may cause electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- The housing, lenses and the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

The fixture should be mounted via its Omega Quick Release Clamp bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating and make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the fixtures weight. Always use a safety cable that can hold 12 times of the weight of the fixture when installing.

The equipment must be installed by professionals and it must be fixed in a place where is out of the reach of people and no one can pass by or under it.

2. Technical Specification

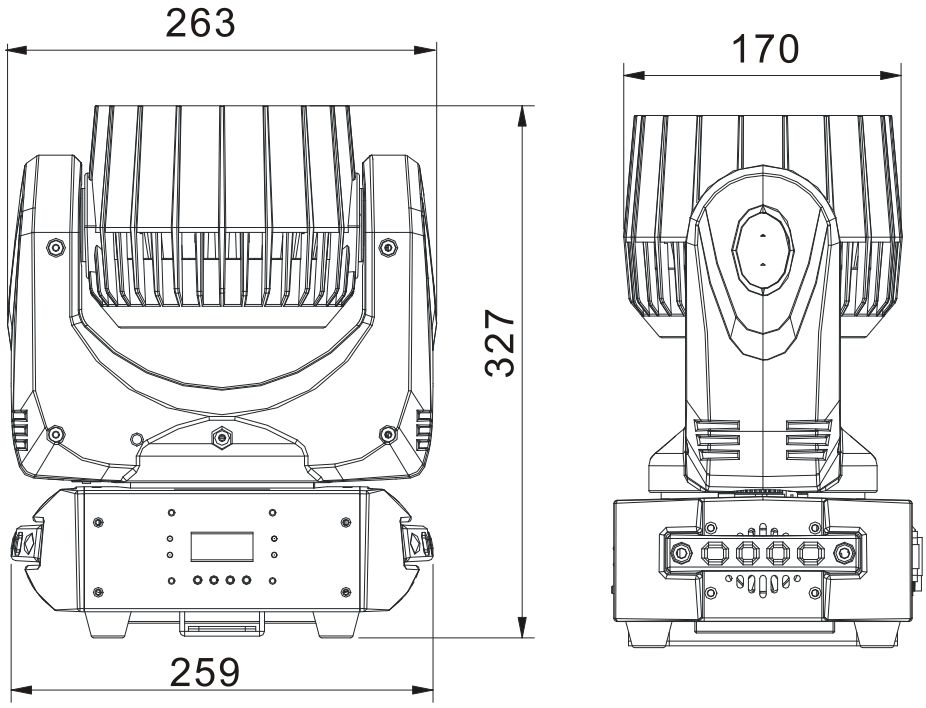
- DMX channel modes: 10,13,15,17 and 29 channels
- 3 operation modes: DMX, Master/Slave, and Sound Activation
- Built-in programs in master/slave operation triggered by music
- Optional CA-8 controller for instant lighting shows
- Electronic dimming and various strobe effects
- LCD display for easy navigation
- **Input Voltage:** AC 100V~240V, 50/60Hz
- **Power Consumption:** 174W
- **Light Source:** 12pcs x 10W Quad LEDs

 Power Cable Daisy Chains: 8 Fixtures Max. (230V, 50Hz)

4 Fixtures Max. (120V, 60Hz)

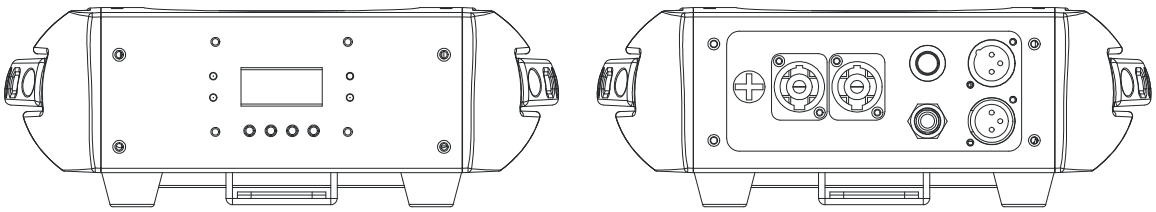
 Weight: 7.3Kgs

 Dimension: 263 x 170 x 327mm



3. How To Set The Unit

3.1 Control Panel



Display:

To show the various menus and the selected functions

LED:

DMX	On	DMX input present
MASTER	On	Master Mode
SLAVE	On	Slave Mode

SOUND	Flashing	Sound activation

Button:

MENU	To select the programming functions
▼ **DOWN**	To go backward in the selected functions
▲ **UP**	To go forward in the selected functions
ENTER	To confirm the selected functions

Fuse (T 6.3A):

Protects the unit from over-voltage or short circuit

MAINS IN:

PowerCon connection from main power supply

MAINS OUT:

PowerCon loop connection for main power supply to the next unit

Microphone:

Receives music signals for sound active mode

Remote control:

Connects to optional CA-8 to control the unit in Stand by, Function and Strobe/Blackout modes

DMX IN:

DMX512 link, use 3-pin XLR cable to link the unit and the DMX controller

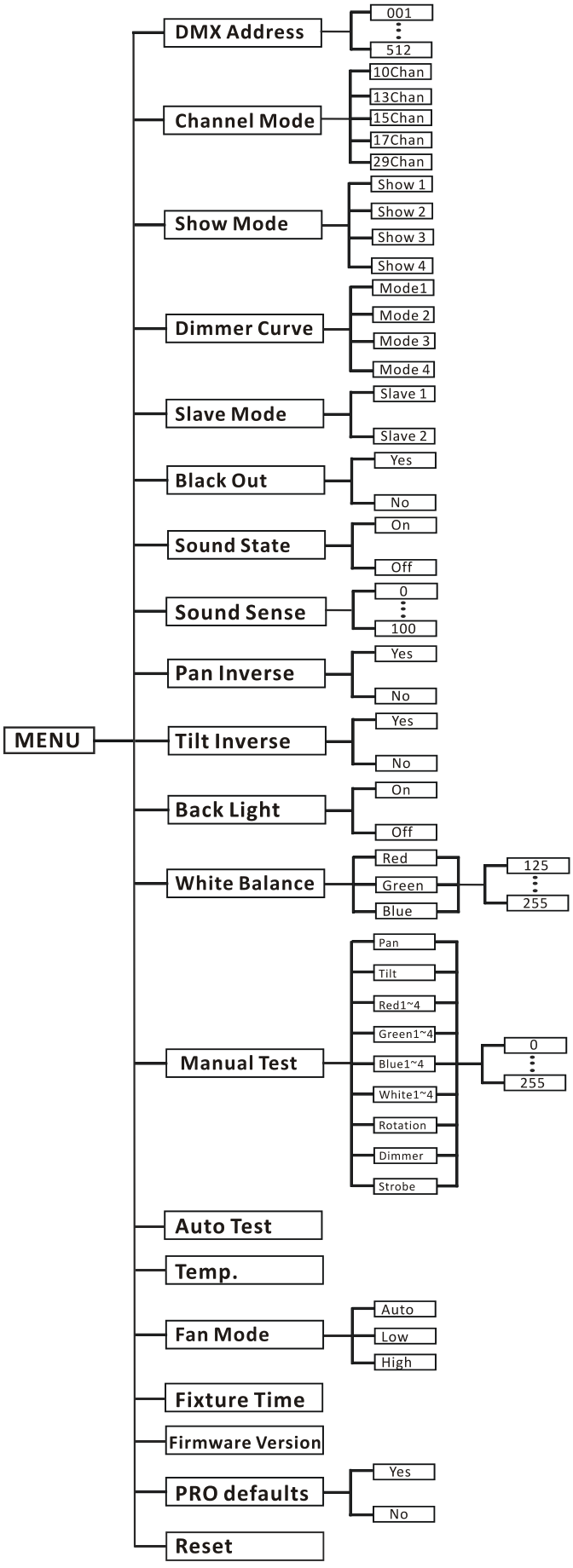
DMX OUT:

DMX512 link, use 3-pin XLR cable to link the next unit and output DMX signal

3.2 Main Function

To select any of the given functions, press the **MENU** button until the required function is showing on the display. Select the function by pressing the **ENTER** button and the display will blink. Use the **DOWN/UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

The main functions are shown overleaf:


MENU
DMX Address
001
512
Channel Mode
10Chan
13Chan
15Chan
17Chan
29Chan
Show Mode
Show 1
Show 2
Show 3
Show 4
Dimmer Curve
Mode1
Mode 2
Mode 3
Mode 4
Slave Mode
Slave 1
Slave 2
Black Out
Yes
No
Sound State
On
Off
Sound Sense
0
100
Pan Inverse
Yes
No
Tilt Inverse
Yes
No
Back Light
On
Off
White Balance
Red
Green
Blue
125
255
Manual Test
Pan
Tilt
Red1~4
Green1~4
Blue1~4
White1~4
Rotation
Dimmer
Strobe
0
255
Auto Test
Temp.
Fan Mode
Auto
Low
High
Fixture Time
Firmware Version
PRO defaults
Yes
No
Reset

DMX Address

To select **DMX Address**, press the **ENTER** button to show the **DMX ADDRESS** on the display. Use the **UP**/**DOWN** button to adjust the address from **001** to **512**. Once the address has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Channel Mode

To select **Channel Mode**, press the **ENTER** button to show the **CHANNEL MODE** on the display. Use the **DOWN**/**UP** button to select the **10Chan**, **13Chan, 15Chan**, **17Chan** or **29Chan** Mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Show Mode

To select **Show Mode**, press the **ENTER** button to show the **SHOW MODE** on the display. Use the **DOWN**/**UP** button to select the **Show 1** or **Show 2** or **Show 3** or **Show 4** Mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to show the **DIMMER CURVE** on the display. Use the **DOWN**/**UP** button to select the **Mode1** or **Mode 2** or **Mode 3** or **Mode 4**. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Mode 1(Optically Linear): The increase in light intensity appears to be linear as DMX value is increased.

Mode 2(Square Law): Light intensity is finer at low levels and coarser at high levels.

Mode 3(Inverse Square Law): Light intensity is coarser at low levels and finer at high levels.

Mode 4(S-cure): Light intensity is finer at low levels and high levels and coarser at medium levels.

Slave Mode

To select **Slave Mode**, press the **ENTER** button to show the **SLAVE MODE** on the display. Use the **DOWN**/**UP** button to select the **Slave 1** (normal) or **Slave 2** (2 light show) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Black Out

To select **Black Out**, press the **ENTER** button to show the **BLACK OUT** on the display. Use the **DOWN**/**UP** button to select the **Yes** (blackout) or **No** (normal). Once selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

NOTE: If the fixture is set in **BLACKOUT** mode it will no longer function in sound or master mode and only respond to DMX control.

Sound State

To select **Sound State**, press the **ENTER** button to show the **SOUND STATE** on the display. Use the **DOWN**/**UP** button to select the **On** (sound on) or **Off** (sound off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Sound Sense (Sensitivity)

To select **Sound Sense**, press the **ENTER** button to show the **SOUND SENSE** on the display. Use the **DOWN**/**UP** button to adjust the value from **0**…**100**. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to show the **PAN INVERSE** on the display. Use the **DOWN/UP** button to select the **Yes** (pan inversion) or **No** (normal) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to show the **TILT INVERSE** on the display. Use the **DOWN/UP** button to select the **Yes** (tilt inversion) or **No**(normal) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Back Light

To select **Back Light**, press the **ENTER** button to show the **BACK LIGHT** on the display. Use the **DOWN/UP** button to select the **On** (LED display always on) or **Off** (LED display off). Once selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

White Balance

To select **White Balance**, press the **ENTER** button to show the **WHITE BALANCE** on the display. Use the **DOWN/UP** button to select the **Red** or **Green** or **Blue**. Once selected, press the **ENTER** button to setup, and then use the **DOWN/UP** button to adjust the value (125~255). Once the selected, press the **ENTER** button to setup, go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Manual Test

To select the **Manual Test**, press the **ENTER** button to show the **MANUAL TEST** on the display. Use

the **DOWN**/**UP** button to select the **Pan/ Tilt**/ **Red1**/ **Green1**/ **Blue1/ White1/…Red4**/ **Green4**/ **Blue4/ White4/ Dimmer** or **Strobe**. Once the function or color has been selected, press the **ENTER** button to setup, use the **DOWN**/**UP** button to change the value (0~255). Once the mode has been selected, press the **ENTER** button to setup, go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Auto Test

To select **Auto Test**, press the **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Temperature.

To select **Temp.**, press the **ENTER** button and the display will show the current temperature of the unit. When the temperature is under 55 degrees the fixture works normally: when it's between 70-75 degrees the fixture will reduce its power output and after 75 degrees the LED will switch off. To go back to the functions press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Fan Mode

To select **Fan Mode**, press the **ENTER** button to show **FAN MODE** on the display. Use the **DOWN**/**UP** button to select **Auto**(normal), **Low** (low speed) or **High** (high speed). Once selected, press the **ENTER** button to setup, go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Fixture Time

To select **Fixture Time**, press the **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Firmware Version

To select **Firmware Version**, press the **ENTER** button and the display will show the version of

software in the unit. To go back to the functions press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

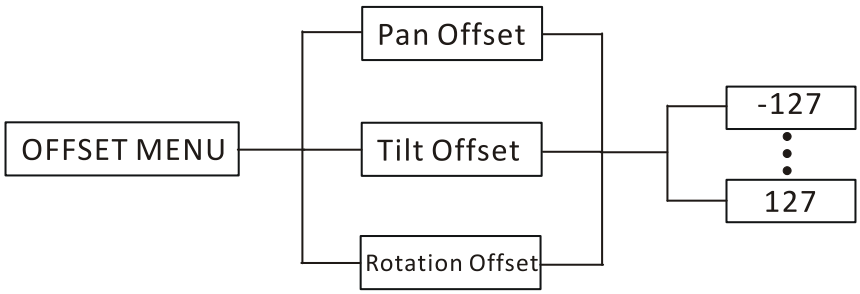
PRO defaults

To select **PRO defaults**, press the **ENTER** button to show **PRO DEFAULTS** on the display. Use the **DOWN/UP** button to select **Yes** (run built-in program to set the fixture to PRO Defaults settings) or **No**. Press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

Reset

To select **Reset**, press the **ENTER** button and all channels of the unit will return to their standard position.

3.3 Home Position Adjustment



In the main functions, hold the **ENTER** button for at least 3 seconds to go into offset mode, use the **DOWN/UP** button up to select the **Pan Offset**, **Tilt Offset** or **Rotation Offset**, and press the **ENTER** button to confirm. Use the **DOWN/UP** button to adjust the home position (-127 ~ 127) of the Pan, Tilt, and Rotation. Once the position has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

4. How To Control The Unit

You can operate the unit in three ways:

1. Master/slave built-in pre-program function
2. Easy controller

3. Universal DMX controller

You do not need to turn the unit off when you change the DMX address, the new DMX address setting will take effect immediately. Every time you power the unit on, it will move all the motors to their 'home' position and you may hear some movement noises for about 20 seconds. After that the unit will be ready to receive a DMX signal or run the built in programs.

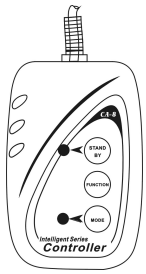
4.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit in master mode **Show Mode** and select **show 1**, **show 2, show 3** or **show 4** mode. When the DMX input socket has nothing plugged into it, its master LED will be constantly on and sound LED will flash to the music. The other units will have to be set in **slave mode** and select **Slave 1** (normal) or **Slave 2** (2 light show) mode, the units will be linked by DMX cables plugged into the DMX sockets (daisy chain) and the slave LEDs will be constantly on.

2-light show

In **slave mode**, **Slave 1** means the unit works normally and **Slave 2** means 2-light show. In order to create a great light show, you can set **Slave 2** on the second unit to get contrast movement to each other, even if you have only two units.

4.2 Easy Controller



The CA-8 easy remote control is used only in master/slave mode. By connecting to the 1/4" jack socket of the first unit, you will find that the remote controller on the first unit will control all the other units in Stand by, and Mode selection.

Stand By	Blackout the unit		
Function	1. Sync. Strobe 2. Two-light strobe 3. Sound Strobe	Select show 1-4	1. Hold to change Master Pan position 2. Hold to change Master Tilt position 3. Hold to change Master Dimmer 4. Hold to change Slave Pan position 5. Hold to change Slave Tilt position 6. Hold to change Slave Dimmer

Mode	Sound (LED OFF)	Show (LED ON)	LED fast blinking

4.3 DMX Controller

When using a universal DMX controller to control the units, you will need to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the **MENU** button up to where **DMX Address** is showing on the display. Press the **ENTER** button and the display will blink. Use the **DOWN**/**UP** button to change the DMX512 address. Once the address has been selected, press the **ENTER** button to setup, to go back to the functions without any change press the **MENU** button again. Press and hold the **MENU** button for about one second or wait for one minute to exit the menu mode.

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
10 channels	1	11	21	31
13 channels	1	14	27	40
15 channels	1	16	31	46
17 channels	1	18	35	52
29 channels	1	30	59	88

4.4 DMX 512 Configuration

10 CH MODE (MODE 1):

CHANNEL	VALUE	FUNCTION
1		**PAN**
	0 – 255	0° - 540°
2		**TILT**
	0 – 255	0° - 270°

3		**STROBE**
	0 – 19	OPEN
	20 – 39	STROBE: 0~20Hz
	40 – 59	STROBE MACRO 1
	60 – 79	STROBE MACRO 2
	80 – 99	STROBE MACRO 3
	100 – 119	STROBE MACRO 4
	120 – 139	STROBE MACRO 5
	140 – 159	STROBE EFFECT 1
	160 – 179	STROBE EFFECT 2
	180 – 199	STROBE EFFECT 3
	200 – 219	STROBE EFFECT 4
	220 – 255	OPEN FULL
4	0 – 255	**RED:** 0% - 100%
5	0 – 255	**GREEN:** 0% - 100%
6	0 – 255	**BLUE:** 0% - 100%
7	0 – 255	**WHITE:** 0% - 100%
8		**ROTATION**
	0 – 127	INDEX: 0° - 360°
	128 – 189	CCW ROTATION: FAST → SLOW
	190 – 193	STOP
	194 – 255	CW ROTATION: SLOW → FAST

9	0 – 255	**DIMMER:** 0% - 100%
10		**FUNCTION** (RESET)
	0 – 7	NO FUNCTION
	8 – 69	PAN/TILT RESET
	70 – 129	RESET ALL
	130 – 190	BLACKOUT WHILE PAN/TILT MOVING
	191 – 255	NO FUNCTION

13 CH MODE (MODE 2):

CHANNEL	VALUE	FUNCTION
1		**STROBE**
	0 – 19	OPEN
	20 – 39	STROBE: 0~20Hz
	40 – 59	STROBE MACRO 1
	60 – 79	STROBE MACRO 2
	80 – 99	STROBE MACRO 3
	100 – 119	STROBE MACRO 4
	120 – 139	STROBE MACRO 5
	140 – 159	STROBE EFFECT 1
	160 – 179	STROBE EFFECT 2
	180 – 199	STROBE EFFECT 3
	200 – 219	STROBE EFFECT 4

	220 – 255	OPEN ALL
2	0 – 255	**DIMMER:** 0% - 100%
3		**PAN**
	0 – 255	0° - 540°
4	0 – 255	**PAN FINE**
5		**TILT**
	0 – 255	0° - 270°
6	0 – 255	**TILT FINE**
7		**FUNCTION** (RESET)
	0 – 7	NO FUNCTION
	8 – 69	PAN/TILT RESET
	70 – 129	RESET ALL
	130 – 190	BLACKOUT WHILE PAN/TILT MOVING
	191 – 255	NO FUNCTION
8		**COLOUR MACRO**
	0 – 19	NO FUNCTION
	20 – 29	MACRO 1
	30 – 39	MACRO 2
	40 – 49	MACRO 3
	50 – 59	MACRO 4
	60 – 69	MACRO 5
	70 – 79	MACRO 6

	80 – 89	MACRO 7
	90 – 99	MACRO 8
	100 – 109	MACRO 9
	110 – 119	MACRO 10
	120 – 129	MACRO 11
	130 – 139	MACRO 12
	140 – 149	MACRO 13
	150 – 159	MACRO 14
	160 – 169	MACRO 15
	170 –179	MACRO 16
	180 –189	MACRO 17
	190 – 199	MACRO 18
	200 – 209	MACRO 19
	210 – 219	MACRO 20
	220 – 229	MACRO 21
	230 – 239	MACRO 22
	240 – 255	MACRO 23
9	0 – 255	**RED:** 0% - 100%
10	0 – 255	**GREEN:** 0% - 100%
11	0 – 255	**BLUE:** 0% - 100%
12	0 – 255	**WHITE:** 0% - 100%
13		**ROTATION**

	0 – 127	INDEX: 0° - 360°
	128 – 189	CCW ROTATION: FAST → SLOW
	190 – 193	STOP
	194 – 255	CW ROTATION: SLOW → FAST

15 CH MODE (MODE 3):

CHANNEL	VALUE	FUNCTION
1		**PAN**
	0 – 255	0° - 540°
2	0 – 255	**PAN FINE**
3		**TILT**
	0 – 255	0° - 270°
4	0 – 255	**TILT FINE**
5		**PAN/TILT MOVE SPEED**
	0 – 255	FAST → SLOW
6		**PAN/TILT MACRO**
	0 – 7	NO FUNCTION
	8 – 15	MACRO 1
	16 – 23	MACRO 2
	24 – 31	MACRO 3
	32 – 39	MACRO 4
	40 – 47	MACRO 5

	48 – 55	MACRO 6
	56 – 63	MACRO 7
	64 – 71	MACRO 8
	72 – 79	MACRO 9
	80 – 87	MACRO 10
	88 – 95	MACRO 11
	96 – 103	MACRO 12
	104 – 111	MACRO 13
	112 – 119	MACRO 14
	120 – 127	MACRO 15
	128 – 135	MACRO 16
	136 – 143	MACRO 17
	144 – 151	MACRO 18
	152– 159	MACRO 19
	160 – 167	MACRO 20
	168 – 175	MACRO 21
	176 – 183	MACRO 22
	184 – 191	MACRO 23
	192 – 199	MACRO 24
	200 – 207	MACRO 25
	208 – 215	MACRO 26
	216 – 223	MACRO 27

	224 – 231	MACRO 28
	232 – 239	MACRO 29
	240 – 247	MACRO 30
	248 – 255	MACRO 31
7	0 – 255	**PAN/TILT MACRO SPEED**
8		**FUNCTION (RESET)**
	0 – 7	NO FUNCTION
	8 – 69	PAN/TILT RESET
	70 – 129	RESET ALL
	130 – 190	BLACKOUT WHILE PAN/TILT MOVING
	191 – 255	NO FUNCTION
9	000 – 255	**DIMMER:** 0% - 100%
10		**STROBE**
	0 – 19	OPEN
	20 – 39	STROBE: 0~20Hz
	40 – 59	STROBE MACRO 1
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	80 – 99	STROBE MACRO 3
	100 – 119	STROBE MACRO 4
	120 – 139	STROBE MACRO 5
	140 – 159	STROBE EFFECT 1
	160 – 179	STROBE EFFECT 2

	180 – 199	STROBE EFFECT 3
	200 – 219	STROBE EFFECT 4
	220 – 255	OPEN ALL
11	0 – 255	**RED:** 0% - 100%
12	0 – 255	**GREEN:** 0% - 100%
13	0 – 255	**BLUE:** 0% - 100%
14	0 – 255	**WHITE:** 0% - 100%
15		**ROTATION**
	0 – 127	INDEX: 0° - 360°
	128 – 189	CCW ROTATION: FAST →SLOW
	190 – 193	STOP
	194 – 255	CW ROTATION: SLOW → FAST

17CH MODE (MODE 4):

CHANNEL	VALUE	FUNCTION
1		**PAN**
	0 – 255	0° - 540°
2	0 – 255	**PAN FINE**
3		**TILT**
	0 – 255	0° - 270°
4	0 – 255	**TILT FINE**
5		**PAN/TILT SPEED**

	0 – 255	FAST → SLOW
6		**PAN/TILT MACRO**
	0 – 7	NO FUNCTION
	8 – 15	MACRO 1
	16 – 23	MACRO 2
	24 – 31	MACRO 3
	32 – 39	MACRO 4
	40 – 47	MACRO 5
	48 – 55	MACRO 6
	56 – 63	MACRO 7
	64 – 71	MACRO 8
	72 – 79	MACRO 9
	80 – 87	MACRO 10
	88 – 95	MACRO 11
	96 – 103	MACRO 12
	104 – 111	MACRO 13
	112 – 119	MACRO 14
	120 – 127	MACRO 15
	128 – 135	MACRO 16
	136 – 143	MACRO 17
	144 – 151	MACRO 18
	152– 159	MACRO 19

	160 – 167	MACRO 20
	168 – 175	MACRO 21
	176 – 183	MACRO 22
	184 – 191	MACRO 23
	192 – 199	MACRO 24
	200 – 207	MACRO 25
	208 – 215	MACRO 26
	216 – 223	MACRO 27
	224 – 231	MACRO 28
	232 – 239	MACRO 29
	240 – 247	MACRO 30
	248 – 255	MACRO 31
7	0 – 255	**PAN/TILT MACRO SPEED**
8		**FUNCTION** (RESET)
	0 – 7	NO FUNCTION
	8 – 69	PAN/TILT RESET
	70 – 129	RESET ALL
	130 – 190	BLACKOUT WHILE PAN/TILT MOVING
	191 – 255	NO FUNCTION
9	000 – 255	**DIMMER:** 0% - 100%
10		**STROBE**
	0 – 19	OPEN

	20 – 39	STROBE: 0~20Hz
	40 – 59	STROBE MACRO 1
	60 – 79	STROBE MACRO 2
	80 – 99	STROBE MACRO 3
	100 – 119	STROBE MACRO 4
	120 – 139	STROBE MACRO 5
	140 – 159	STROBE EFFECT 1
	160 – 179	STROBE EFFECT 2
	180 – 199	STROBE EFFECT 3
	200 – 219	STROBE EFFECT 4
	220 – 255	OPEN ALL
11	0 – 255	**RED:** 0% - 100%
12	0 – 255	**GREEN:** 0% - 100%
13	0 – 255	**BLUE:** 0% - 100%
14	0 – 255	**WHITE:** 0% - 100%
15		**COLOUR MACRO**
	0 – 19	NO FUNCTION
	20 – 29	MACRO 1
	30 – 39	MACRO 2
	40 – 49	MACRO 3
	50 – 59	MACRO 4
	60 – 69	MACRO 5

	70 – 79	MACRO 6
	80 – 89	MACRO 7
	90 – 99	MACRO 8
	100 – 109	MACRO 9
	110 – 119	MACRO 10
	120 – 129	MACRO 11
	130 – 139	MACRO 12
	140 – 149	MACRO 13
	150 – 159	MACRO 14
	160 – 169	MACRO 15
	170 –179	MACRO 16
	180 –189	MACRO 17
	190 – 199	MACRO 18
	200 – 209	MACRO 19
	210 – 219	MACRO 20
	220 – 229	MACRO 21
	230 – 239	MACRO 22
	240 – 255	MACRO 23
16	0 – 255	**COLOUR MACRO SPEED**
17		**ROTATION**
	0 – 127	INDEX: 0° - 360°
	128 – 189	CCW ROTATION: FAST →SLOW

	190 – 193	STOP
	194 – 255	CW ROTATION: SLOW → FAST

29CH MODE(MODE 5):

CHANNEL	VALUE	FUNCTION
1		**PAN**
	0 – 255	0° - 540°
2	0 – 255	**PAN FINE**
3		**TILT**
	0 – 255	0° - 270°
4	0 – 255	**TILT FINE**
5		**PAN/TILT SPEED**
	0 – 255	FAST → SLOW
6		**PAN/TILT MACRO**
	0 – 7	NO FUNCTION
	8 – 15	MACRO 1
	16 – 23	MACRO 2
	24 – 31	MACRO 3
	32 – 39	MACRO 4
	40 – 47	MACRO 5
	48 – 55	MACRO 6
	56 – 63	MACRO 7

	64 – 71	MACRO 8
	72 – 79	MACRO 9
	80 – 87	MACRO 10
	88 – 95	MACRO 11
	96 – 103	MACRO 12
	104 –111	MACRO 13
	112 –119	MACRO 14
	120 –127	MACRO 15
	128 –135	MACRO 16
	136 –143	MACRO 17
	144 –151	MACRO 18
	152– 159	MACRO 19
	160 –167	MACRO 20
	168 –175	MACRO 21
	176 –183	MACRO 22
	184 –191	MACRO 23
	192 –199	MACRO 24
	200 –207	MACRO 25
	208 –215	MACRO 26
	216 –223	MACRO 27
	224 –231	MACRO 28
	232 –239	MACRO 29

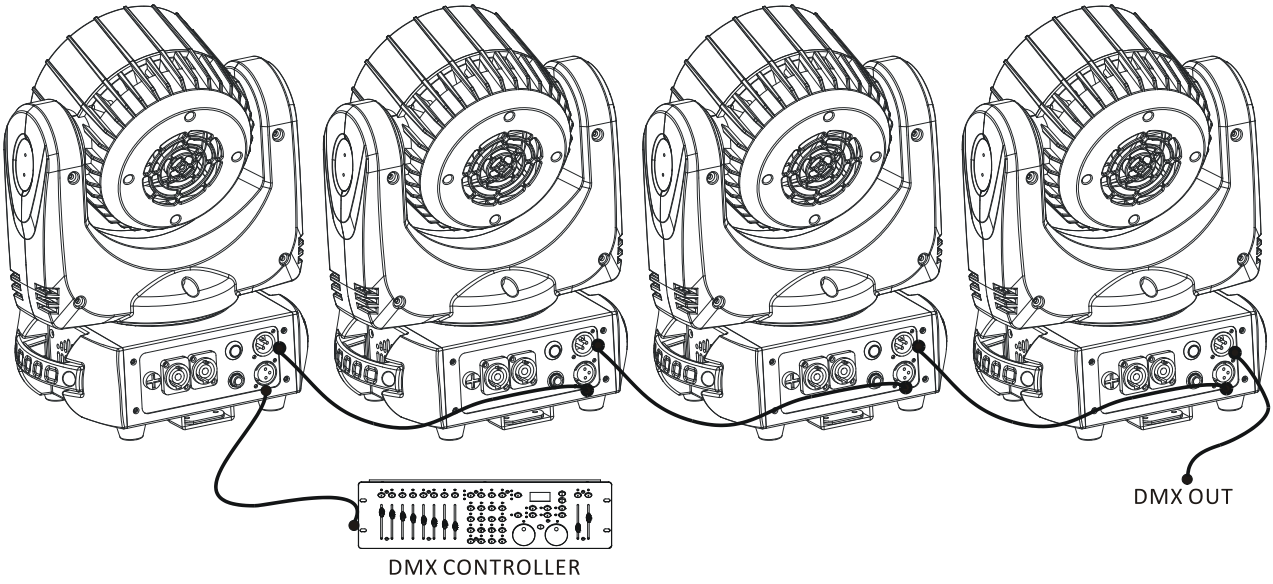
	240 –247	MACRO 30
	248 –255	MACRO 31
7	0 – 255	**PAN/TILT MACRO SPEED**
8		**FUNCTION** (RESET)
	0 – 7	NO FUNCTION
	8 – 69	PAN/TILT RESET
	70 – 129	RESET ALL
	130 – 190	BLACKOUT WHILE PAN/TILT MOVING
	191 – 255	NO FUNCTION
9	000 – 255	**DIMMER:** 0% - 100%
10		**STROBE**
	0 – 19	OPEN
	20 – 39	STROBE: 0~20Hz
	40 – 59	STROBE MACRO 1
	60 – 79	STROBE MACRO 2
	80 – 99	STROBE MACRO 3
	100 –119	STROBE MACRO 4
	120 –139	STROBE MACRO 5
	140 –159	STROBE EFFECT 1
	160 –179	STROBE EFFECT 2
	180 –199	STROBE EFFECT 3
	200 –219	STROBE EFFECT 4

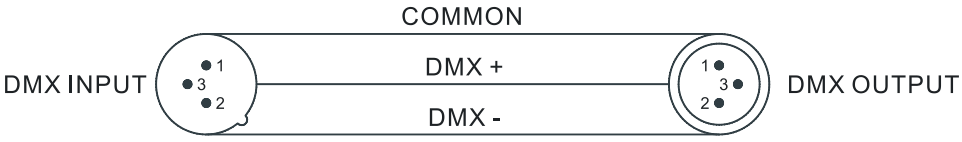
	220 –255	OPEN ALL
11	0 – 255	**RED** (LED 1)**:** 0% - 100%
12	0 – 255	**GREEN** (LED 1)**:** 0% - 100%
13	0 – 255	**BLUE** (LED 1): 0% - 100%
14	0 – 255	**WHITE** (LED 1)**:** 0% - 100%
15	0 – 255	**RED** (LED 2)**:** 0% - 100%
16	0 – 255	**GREEN** (LED 2)**:** 0% - 100%
17	0 – 255	**BLUE** (LED 2): 0% - 100%
18	0 – 255	**WHITE** (LED 2)**:** 0% - 100%
19	0 – 255	**RED** (LED 3)**:** 0% - 100%
20	0 – 255	**GREEN** (LED 3)**:** 0% - 100%
21	0 – 255	**BLUE** (LED 3): 0% - 100%
22	0 – 255	**WHITE** (LED 3)**:** 0% - 100%
23	0 – 255	**RED** (LED 4)**:** 0% - 100%
24	0 – 255	**GREEN** (LED 4)**:** 0% - 100%
25	0 – 255	**BLUE** (LED 4): 0% - 100%
26	0 – 255	**WHITE** (LED 4)**:** 0% - 100%
27		**COLOUR MACRO**
	0 – 19	NO FUNCTION
	20 – 29	MACRO 1
	30 – 39	MACRO 2
	40 – 49	MACRO 3

	50 – 59	MACRO 4
	60 – 69	MACRO 5
	70 – 79	MACRO 6
	80 – 89	MACRO 7
	90 – 99	MACRO 8
	100 –109	MACRO 9
	110 –119	MACRO 10
	120 –129	MACRO 11
	130 –139	MACRO 12
	140 –149	MACRO 13
	150 –159	MACRO 14
	160 –169	MACRO 15
	170 –179	MACRO 16
	180 –189	MACRO 17
	190 –199	MACRO 18
	200 –209	MACRO 19
	210 –219	MACRO 20
	220 –229	MACRO 21
	230 –239	MACRO 22
	240 –255	MACRO 23
28	0 – 255	**COLOR MACRO SPEED**
29		**ROTATION**

	0 – 127	INDEX: 0° - 360°
	128 –189	CCW ROTATION: FAST →SLOW
	190 –193	STOP
	194 –255	CW ROTATION: SLOW → FAST

4.5 DMX512 Connection





Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W)between pin2(DMX-)and pin3(DMX+) of the last fixture.

1. If you using a controller with a 5 pin DMX output, you need to use a 5 to 3 pin adapter-cable.
2. The last units DMX output has to be terminated with a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) of a 3-pin XLR-plug and plug it in the DMX output of the last unit.
3. Connect the units together in a `daisy chain` by using a XLR plug from the output of one unit to the input of the next unit. The cable can not branched or split to a `Y` cable

4. The DMX output and input connectors are “pass-through” to maintain the DMX circuit even when one of the units power is disconnected.
5. Each fixture unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

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 (+),
Pin 4/Pin 5: Not used.

5. Troubleshooting

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

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

1. Check the connection of power and the main fuse.
2. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if linked properly.
2. If the DMX LED is on and no response to the controller, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the cables and connectors or on the unit or the previous one.
4. Try another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX signal.

C. Some units don’t respond to the easy controller

1. You may have a break in the DMX cables. Check the LED for the response of the master/ slave mode signal.
2. Wrong DMX address in the unit. Set the proper address.

D. No response to the sound

1. Make sure the unit is not set to DMX mode.
2. Check microphone by tapping it
3. Make sure the fixture is not set into Blackout mode

6. Fixture Cleaning

The cleaning must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 30 days.

English

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with seperate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please seperate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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