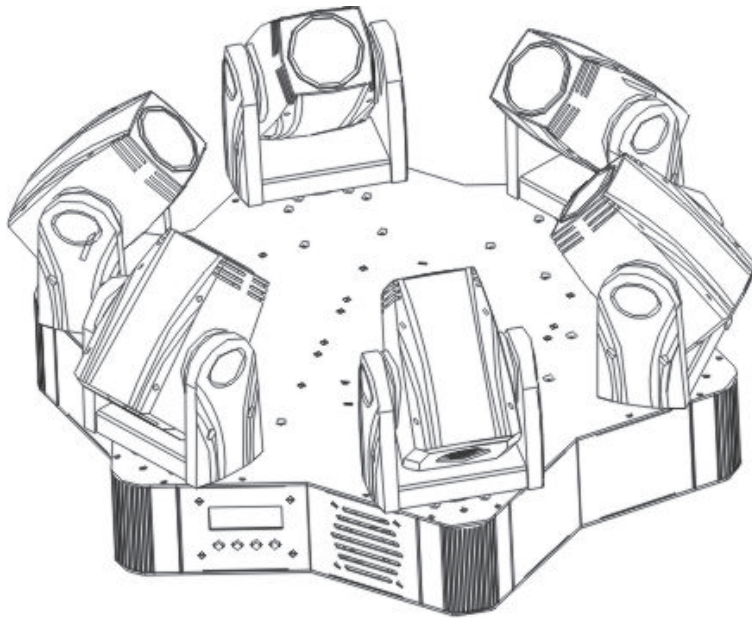


EQUINOX SLENDER BEAM CENTREPIECE QUAD



User Manual

Black housing - EQLED022

White housing – EQLED022A

Contents

1. Safety Instructions
2. Features & Specifications
3. How to Set The Unit
4. How to Control the Unit
4. Troubleshooting
6. Fixture Cleaning

1. Safety Instruction



WARNING

Please read the instructions carefully as they include important information about installation, usage and maintenance.

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

Unpack and check carefully that there is no transportation damage before using the unit.

- Before operating, ensure that the voltage and frequency of the 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 the mains power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as they may cause a fire hazard.
- Always use a safety cable when installing this unit. Do not carry the unit with its head only, always carry it using the base.
- The maximum ambient temperature is: 40°C. Don't operate it where the temperature is higher than this.
- 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 power cables during operation as the high voltage may cause an electric shock.

Warning

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
Do not open the unit within five minutes after switching off.
- The housing and lenses must be replaced if they are visibly damaged.

Installation

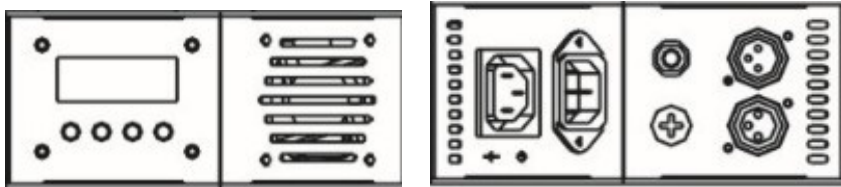
The unit should be mounted via its screw holes onto the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Make sure that the structure to which you are attaching the unit to is secure and is able to support a weight of 10 times of the unit's weight. Always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

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

2. Features & Technical Specifications

- Control: Sound active, auto, Master/slave and DMX-512 modes
- DMX Channels: 1CH/6CH/18CH/20CH/39CH
- Electronic dimming: 0-100%
- Compact size and light-weight

3.1 Control panel



Display

Shows the various menus and selected functions

Button

MENU	Selects the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	Confirms the selected functions

Mains input

Connection to the power supply.

DMX input/output

For DMX 512 linking. Use 3-pin DMX cables to link to the controller or to other units.

3.2 Main Functions

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

The main functions are as below:

Voltage:	100V~240V, 50/60Hz
Fuse:	T 6.3A
Power consumption:	200W
Light source:	6 x 10W quad color LED
Dimension:	500 x400 x234mm
Weight:	11 kg
Pan/Tilt:	540°/270°
Power sockets:	IEC IN/OUT
XLR sockets:	3-pin XLR IN/OUT

Menu	ADDR	001-512
	CHMD	1CH/6CH/18CH/20CH/39CH
	SLMD	MAST
		SL1
	SHMD	SL2
		SH1
		SH2
		SH3
	SOUN	SH4
		ON
	SENS	OFF
		000-100
	LED	ON
		OFF
DISP□INVERT		
PAN INVERT	YES	

		NO
	TILT INVERT	YES
		NO
	TEST	Self-Test
	FHRS	Fixture hours 0 ~ 9999
	VER	Software Version
	RSET	RSET

Addr DMX Address Setting

Press the **MENU** button to select **Addr**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to choose the address. to confirm. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

ChNd Channel Mode

Press the **MENU** button to select **ChNd**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **1Ch**(1 Channel) or **6Ch**(6 Channel) or **18Ch**(18Channel) or **20Ch**(20 Channel) or **39Ch**(39 Channel) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

MaStE Master Mode or **SLNd** Slave Mode

Press the **MENU** button to select **SLNd**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **SL1**(Slave 1), **SL2**(Slave 2) or **MaStE**(Master) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

ShNd Show Mode

Press the **MENU** button to select **ShNd**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **Sh1**(show 1) or **Sh2**(show 2) or **Sh3**(show 3) or **Sh4**(show 4) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

SOUn Sound Mode

Press the **MENU** button to select **SOUn**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **on**(sound on) or **off**(sound off) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

SENS Sound Sensitivity

Press the **MENU** and use the **UP** and **DOWN** buttons to select **SENS** and select the sound sensitivity between value 0 and 100. Press the **ENTER** button for confirmation after value selection. To go back to the functions without any changes press the **MENU** button again.

LEd Led Display

Press the **MENU** button to select **LEd**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **on** (Led display on) or **off** (Led display off) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

DISP Display Inversion

Press the **MENU** button to select **DISP**. Press the **ENTER** button to change the mode **DISP** (display normal), it will be automatically saved after 8 seconds. Press the **ENTER** button again to select the mode **DISP** (display inversion). To go back to the functions press the **MENU** button. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

DISP Display normal mode is for floor standing the unit.

DISP Display inversion mode is for hanging the unit upside down.

PAn Pan Inversion

Press the **MENU** button to select **PAn**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **no** (normal) or **YES** (pan inversion) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

TIlt Tilt Inversion

Press the **MENU** button to select **TIlt**. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to select the **no** (normal) or **YES** (tilt inversion) mode. Once the mode has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

TEST Auto-Test


Press the **MENU** button to select . Press the **ENTER** button and the unit will run a self-test with its built-in programs. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button for one second or wait for one minute to go back to the main menu.

FixrS Fixture Hours


Press the **MENU** button up to where the **FixrS** is showing on the display. 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.

 Software version


Press the **MENU** button up to when the  is showing on the display. Press the **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button.

 Reset

Press the **MENU** button to select . Press the **ENTER** button and all channels of the unit will return to their standard position.

4. How To Control The Unit

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

There is no need to turn the unit off when you change the DMX address as the new DMX address setting will be effected at once. Every time you turn the unit on, it will show  on the display and move all the motors to their 'home' position and you may hear some 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 Pre-programmed 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 as master and select **show 1**, **show 2**, **show 3** or **show 4** from the **Show Mode**. The other units must be set to either **Slave 1** (normal) or **Slave 2** (2 light show) mode. A DMX cable between

the units for daisy chaining is needed.

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 two units only.

4.2 DMX Controller

By using a universal DMX controller to control the units, you will need to set a DMX address from 1 to 512 so that the units can receive a DMX signal. Press the **MENU** button until  is showing on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** buttons to change the DMX 512 address. Once the address has been selected, press the **ENTER** button to confirm. To go back to the functions without any changes press the **MENU** button again. Press and hold the **MENU** button one second or wait for one minute to go back to the main menu.

Please refer to the below diagram to address your first 4 units :

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
1 channel	1	2	3	4
6channel	1	7	13	19
18channel	1	19	37	55
20channel	1	21	41	61
39channel	1	40	79	118

4.3 DMX 512 Configuration

1 CHANNEL MODE:

Channel	Function	Value
1	Show mode	000-007 Movement 0
		008-022 Movement 01
		023-037 Movement 02
		038-052 Movement 03
		053-067 Movement 04
		068-082 Movement 05
		083-097 Movement 06
		098-112 Movement 07
		113-127 Movement 08
		128-142 Movement 09
		143-157 Movement 10
		158-172 Movement 11
		173-187 Movement 12
		188-202 Movement 13
		203-217 Movement 14
		218-232 Movement 15
		233-247 Movement 16
		248-255 Sound active

6 CHANNEL MODE

Channel	Function	Value
1	0-255	Dimmer 0%-100%
2	Strobe	000-007 Open

		000-255 Speed 0 - 100%	
3	Pan/Tilt Movement	000-007 Movement 0	
		008-022 Movement 01	
		023-037 Movement 02	
		038-052 Movement 03	
		053-067 Movement 04	
		068-082 Movement 05	
		083-097 Movement 06	
		098-112 Movement 07	
		113-127 Movement 08	
		128-142 Movement 09	
	143-157 Movement 10		
			158-172 Movement 11
			173-187 Movement 12
			188-202 Movement 13
			203-217 Movement 14
			218-232 Movement 15
			233-247 Movement 16
			248-255 Sound active
4			Movement Speed
5	Colour Chase	000-014 Colours	
		015-255 Colour chase	
6	Chase Speed	000 - 255 Slow to fast	

18 CHANNEL MODE

Channel	Function	Value
1	Pan1	000 - 255 Pan 0°~ 540°
2	Tilt1	000 - 255 Tilt 0°~ 270°
3	Colour1	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
223 - 239 G + B + W		
240 - 255 R + G + B + W		
4	Pan2	000 - 255 Pan 0°~ 540°
5	Tilt2	000 - 255 Tilt 0°~ 270°
6	Colour2	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W

		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
		223 - 239 G + B + W
		240 - 255 R + G + B + W
		7
8	Tilt3	000 - 255 Tilt 0°~ 270°
9	Colour3	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
190 - 206 R + G + W		
207 - 222 R + B + W		

		223 - 239 G + B + W
		240 - 255 R + G + B + W
10	Pan4	000 - 255 Pan 0°~ 540°
11	Tilt4	000 - 255 Tilt 0°~ 270°
12	Colour4	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
207 - 222 R + B + W		
223 - 239 G + B + W		
240 - 255 R + G + B + W		
13	Pan5	000 - 255 Pan 0°~ 540°
14	Tilt5	000 - 255 Tilt 0°~ 270°
15	Colour5	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W

		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
		223 - 239 G + B + W
		240 - 255 R + G + B + W
16	Pan6	000 - 255 Pan 0°~ 540°
17	Tilt6	000 - 255 Tilt 0°~ 270°
18	Colour6	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
174 - 189 R + G + B		
190 - 206 R + G + W		
207 - 222 R + B + W		

		223 - 239 G + B + W
		240 - 255 R + G + B + W

20 CHANNEL MODE

Channel	Function	Value
1	Dimmer	000 - 255 0%~ 100%
2	Strobe	000-007 Open
		008-255 Speed 0 - 100%
3	Pan1	000 - 255 Pan 0°~ 540°
4	Tilt1	000 - 255 Tilt 0°~ 270°
5	Colour1	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
223 - 239 G + B + W		
240 - 255 R + G + B + W		
6	Pan2	000 - 255 Pan 0°~ 540°

7	Tilt2	000 - 255 Tilt 0°~ 270°
8	Colour2	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
223 - 239 G + B + W		
240 - 255 R + G + B + W		
9	Pan3	000 - 255 Pan 0°~ 540°
10	Tilt3	000 - 255 Tilt 0°~ 270°
11	Colour3	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W

		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
		223 - 239 G + B + W
		240 - 255 R + G + B + W
12	Pan4	000 - 255 Pan 0°~ 540°
13	Tilt4	000 - 255 Tilt 0°~ 270°
14	Colour4	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
207 - 222 R + B + W		
223 - 239 G + B + W		
240 - 255 R + G + B + W		
15	Pan5	000 - 255 Pan 0°~ 540°

16	Tilt5	000 - 255 Tilt 0°~ 270°
17	Colour5	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
207 - 222 R + B + W		
223 - 239 G + B + W		
240 - 255 R + G + B + W		
18	Pan6	000 - 255 Pan 0°~ 540°
19	Tilt6	000 - 255 Tilt 0°~ 270°
20	Colour6	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
108 - 123 R + W		

		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
		223 - 239 G + B + W
		240 - 255 R + G + B + W

39 CHANNEL MODE

Channel	Function	Value
1	Dimmer	000 - 255 0%~ 100%
2	Strobe	000-007 Open
		008-255 Speed 0 - 100%
3	Pan1	000 - 255 Pan 0°~ 540°
4	Pan fine 1	000 - 255
5	Tilt1	000 - 255 Tilt 0°~ 270°
6	Tilt fine 1	000 - 255
7	Pan Tilt speed1	000 - 255 Fast to slow
8	Colour1	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B

		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
		223 - 239 G + B + W
		240 - 255 R + G + B + W
9	Pan2	000 - 255 Pan 0°~ 540°
10	Pan fine 2	000 - 255
11	Tilt2	000 - 255 Tilt 0°~ 270°
12	Tilt fine 2	000 - 255
13	Pan Tilt speed2	000 - 255 Fast to slow
14	Colour2	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
157 - 173 B + W		
174 - 189 R + G + B		
190 - 206 R + G + W		

		207 - 222 R + B + W
		223 - 239 G + B + W
		240 - 255 R + G + B + W
15	Pan3	000 - 255 Pan 0°~ 540°
16	Pan fine 3	000 - 255
17	Tilt3	000 - 255 Tilt 0°~ 270°
18	Tilt fine 3	000 - 255
19	Pan Tilt speed3	000 - 255 Fast to slow
20	Colour3	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
223 - 239 G + B + W		
240 - 255 R + G + B + W		
21	Pan4	000 - 255 Pan 0°~ 540°
22	Pan fine 4	000 - 255
23	Tilt4	000 - 255 Tilt 0°~ 270°

24	Tilt fine 4	000 - 255
25	Pan Tilt speed4	000 - 255 Fast to slow
26	Colour4	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B
		058 - 074 W
		075 - 090 R + G
		091 - 107 R + B
		108 - 123 R + W
		124 - 140 G + B
		141 - 156 G + W
		157 - 173 B + W
		174 - 189 R + G + B
		190 - 206 R + G + W
		207 - 222 R + B + W
223 - 239 G + B + W		
240 - 255 R + G + B + W		
27	Pan5	000 - 255 Pan 0°~ 540°
28	Pan fine5	000 - 255
29	Tilt5	000 - 255 Tilt 0°~ 270°
30	Tilt fine5	000 - 255
31	Pan Tilt speed5	000 - 255 Fast to slow
32	Colour5	000 - 007 Blackout
		008 - 024 R
		025 - 041 G
		042 - 057 B

		058 – 074 W
		075 – 090 R + G
		091 – 107 R + B
		108 – 123 R + W
		124 – 140 G + B
		141 – 156 G + W
		157 – 173 B + W
		174 – 189 R + G + B
		190 – 206 R + G + W
		207 – 222 R + B + W
		223 – 239 G + B + W
		240 – 255 R + G + B + W
33	Pan6	000 - 255 Pan 0°~ 540°
34	Pan fine6	000 - 255
35	Tilt6	000 - 255 Tilt 0°~ 270°
36	Tilt fine6	000 - 255
37	Pan Tilt speed6	000 – 255 Fast to slow
38	Colour6	000 – 007 Blackout
		008 – 024 R
		025 – 041 G
		042 – 057 B
		058 – 074 W
		075 – 090 R + G
		091 – 107 R + B
		108 – 123 R + W
		124 – 140 G + B
		141 – 156 G + W

		157 – 173 B + W
		174 – 189 R + G + B
		190 – 206 R + G + W
		207 – 222 R + B + W
		223 – 239 G + B + W
39	Special Function	000-199 No function
		200-209 Reset
		210-239 No function
		240-255 Stand-alone

5. Troubleshooting

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

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

1. Check the connection of the power and the main fuse.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX cables to see if linked correctly.
2. If the DMX address is showing but no response to the controller, check the address settings and DMX polarity.
3. Try another DMX controller.

C. No response to the sound

1. Make sure the unit is not receiving a DMX signal.
2. Check the microphone to see if it is good by tapping it. The microphone is located on the bottom plate of the unit.

6. Fixture Cleaning

The cleaning of external optical lenses 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 a greater accumulation of dirt on the unit's optics.

Clean with a soft cloth using normal glass cleaning fluid or mild soapy water.

- Always dry the parts carefully.
- Clean the external optics at least every 20 days.

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