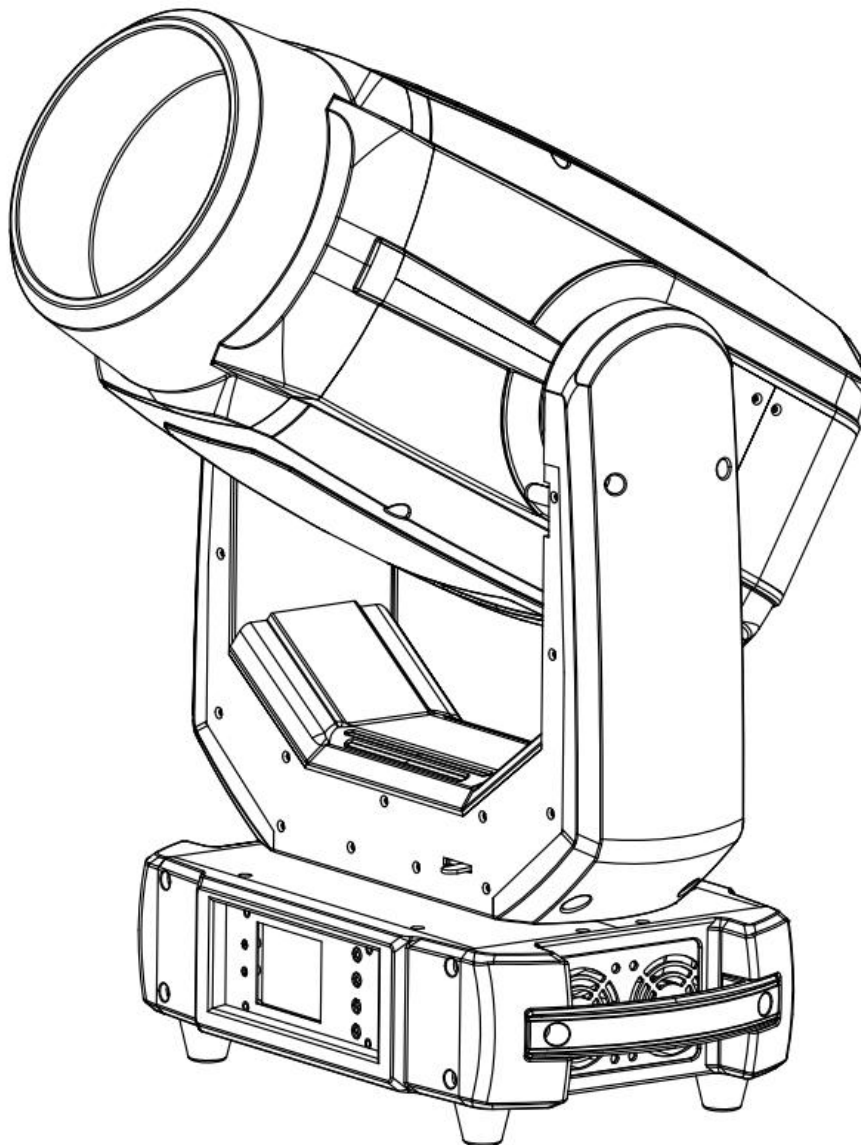


LED POINTE 480 BSW Moving Head Light



User Manual

Please read the instruction carefully before use

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1. Safety Instruction



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.

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 a fire hazard.

Use safety cable when fixing this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

Maximum ambient temperature is $T_a: 40^{\circ}\text{C}$. DO NOT operate it where the temperature is higher than this.

Unit surface temperature may reach up to 85°C . DO NOT touch the housing bare-handed during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or servicing.

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 da

mage 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 might be causing 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, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

For AC 120V, 60Hz power supply, maximum fixtures that can be connected together from the same mains outlet is 4pcs;

For AC 230V, 50Hz power supply, maximum fixtures that can be connected together from the same mains outlet is 8pcs;

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 unit should be mounted via its screw holes on the 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 unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

2. TECHNICAL PARAMETERS

Light source model: 420w white led

Maximum power: 600W

Power supply: 100v-240v 50-60Hz

Color temperature: 8500k-9000k

CRI:70

Lamp life: 20000 hours

Zoom angle: 3.2 ° - 42.6 °

Control mode: DMX512, master-slave operation, sound control

Support RDM function, DMX software upgrade function

Optional network function support: artnet, klingnet, sacn, network protocol

Channel mode: 39CH

Pan: 540 degree + fine continuous rotation
(Magnetic encoder)

Tilt: 270 degree + fine (Magnetic encoder)

Color Wheel: 13colors + open, with rainbow effect

Virtual Colour wheel (Linear CMY)

CTO Wheel : 2700K-9000K (linear CTO)

Static Gobo Wheel: 10 gobos + open, with rotation and running water effect

(7 metal gobos and 4 beam reducers)

Rotation gobo wheel:9 gobos+open Animation Wheel

Prism: 2 prism wheel(4prism)

Prism1:Rotating 6-facet linear prism with continuous rotation in both directions

Prism2:Rotating 18-facet circular prism with continuous rotation in both directions

Prism wheel 2

Prism3:Rotating 6-facet linear prism with continuous rotation in both directions

Prism4:Rotating 8-facet circular prism with continuous rotation in both directions

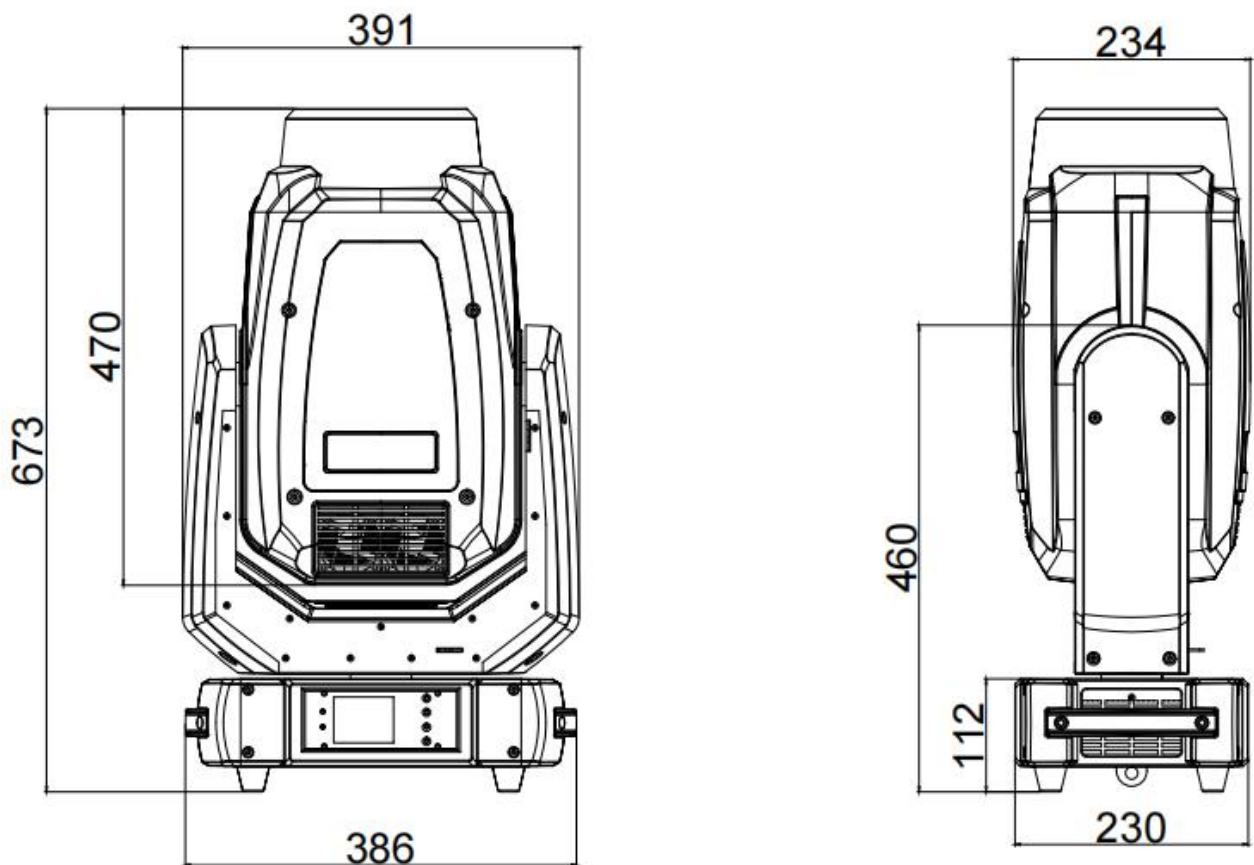
Frost: With Double frost effect

Focus: motorized focus

Display: Color LCD, Chinese and English display, reverse display

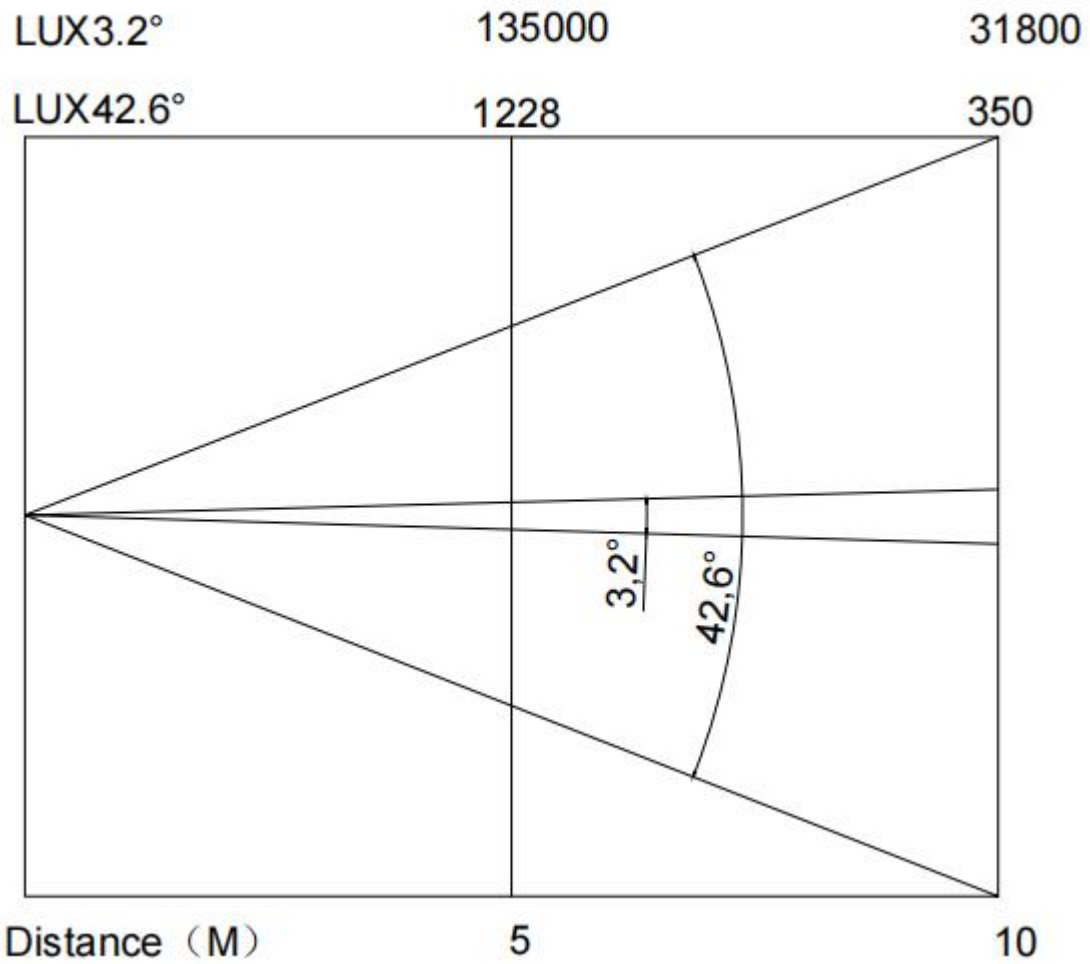
Package size:650*600*495MM

Net weight: 21.5kg



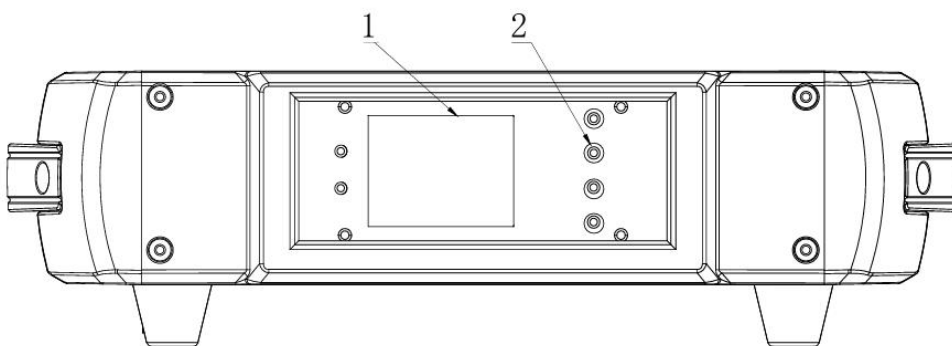
3. Optical Lumen Diagram

PHOTO METRICS DIAGRAM



4. Description

4.1 Fixture Overview

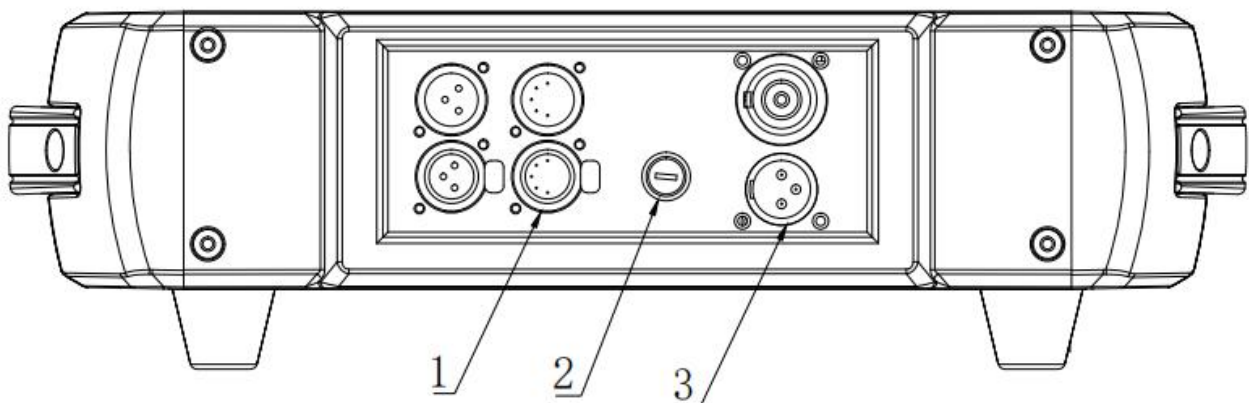


1. Display:

To show the various menus and the selected functions

2. Button:

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



1. DMX IN/OUT:

DMX512 link, use 3/5pin XLR cable to link the fixture and the DMX controller, use 3/5 pin XLR cable to link the next fixture

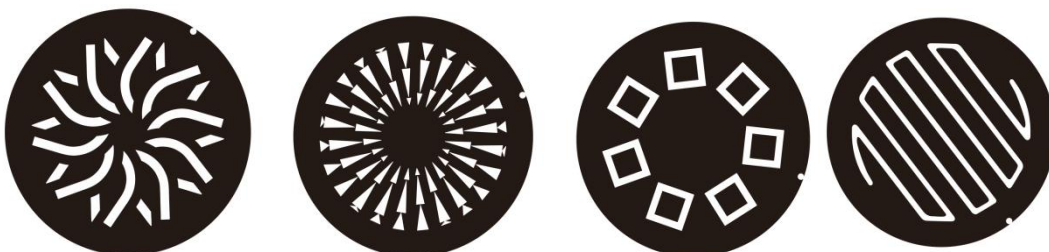
2. Fuse (T 10A):

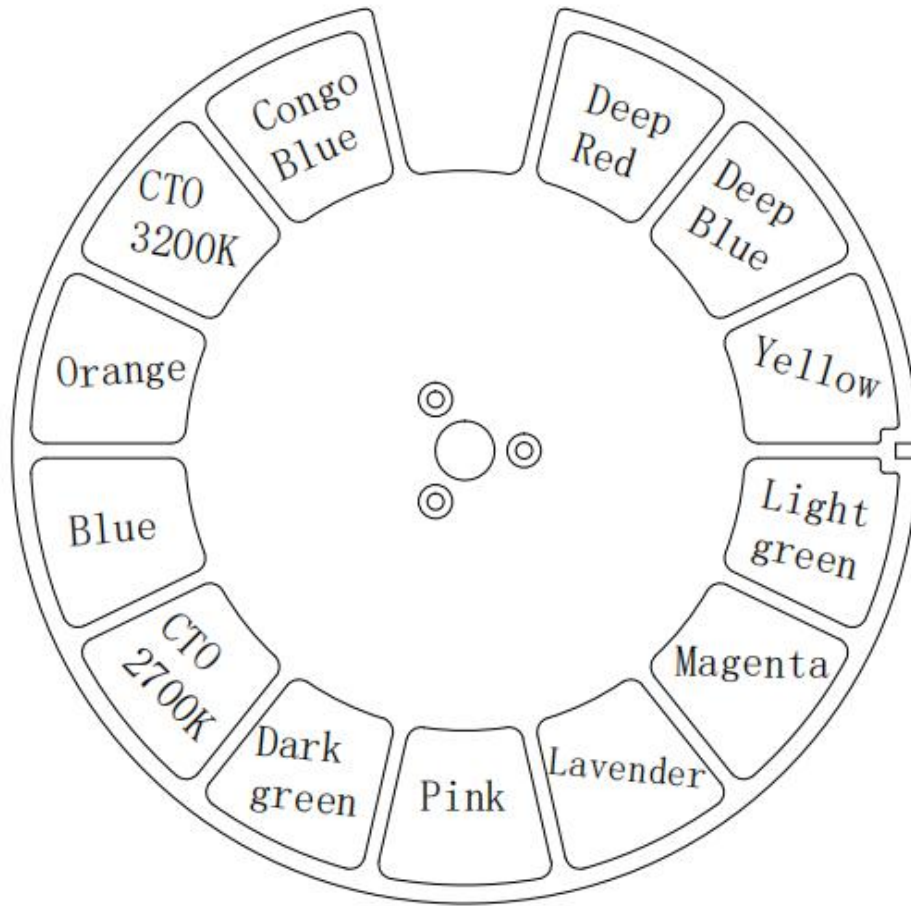
Protects the unit from over-voltage or short circuit

3. Power Cable:IN/OUT

4.2 Gobo and Color

Rotating Gobo Wheel





Virtual Colour wheel



DANGER!

Install the gobos with the device switched off only.

Unplug from mains before changing gobos!

4.3 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 buttons 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:

MAIN MENU	SUBMENU	TERTIARY MENU
Dmx Address	Address	001 -512
	Dmx Mode	39CH
	SysRst	
Work Mode	Dmx Ctrl	
	Auto Run	
	Sound Ctrl	
	Scene Mode	Auto /1-10
	M/S Choose	Auto /1-10
	Light Switch	ON/OFF
Display	Language	English/中文
	Screen saver	Mode1-4/off
	Screen Rot	Auto/Forward
	DMX Indicate	Mode1-3

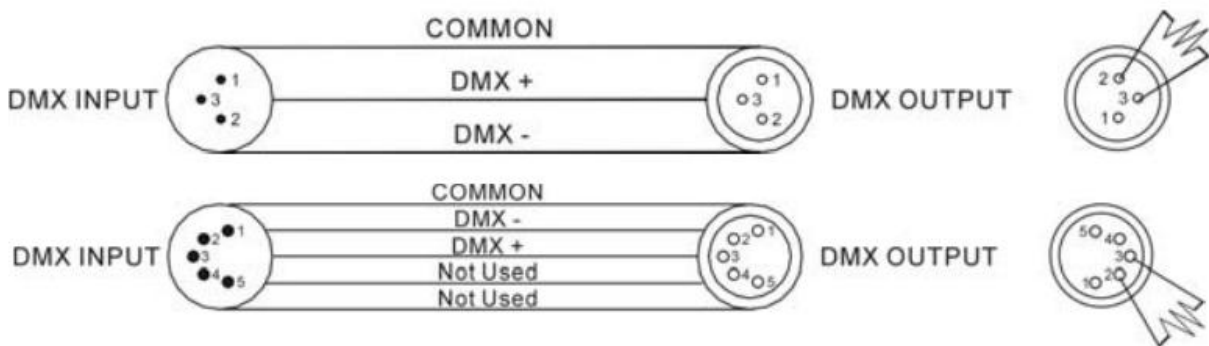
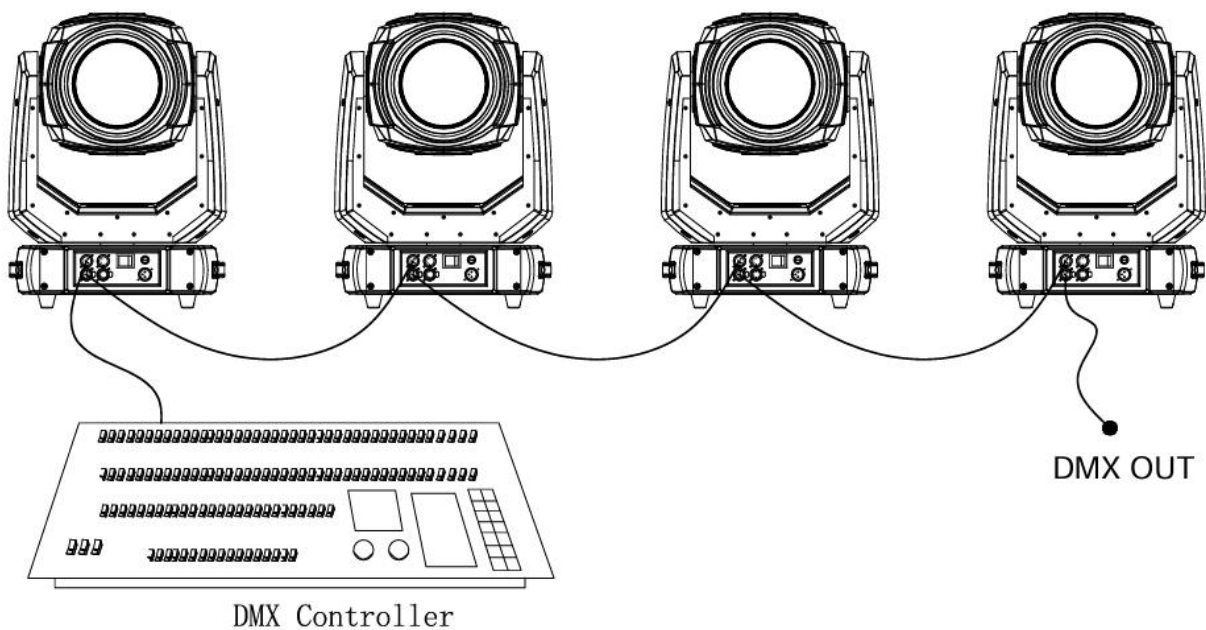
	Singnal Bright	1-10
	Screen Light	1-10
	Touch Enable	ON/off
	Touch Rectify	
Scene	Scene Select	1-10
	Scene times	0-255
	Control mode	ON/OFF
	01.Pan	0-255
	02.Pan Fine	0-255
	03.Tilt	0-255
	04.Reset	0 - 255
	05.Cyan	0 - 255
	06.Magenta	0 - 255
	07.Yellow	0 - 255
	08.Colour	0 - 255
	09.Colour F	0 - 255
	10.Eft Speed	0 - 255
	11.CMY times	0 - 255
	12.Colour3	0 - 255
	13.ZFFP times	0 - 255
	14.Eft lrt	0 - 255
	15.Eft gobo	0- 255
	16.MODE	0 - 255
	17.GOBO	0 - 255
	18.ROt gobo	0 - 255
19.Gobe RF	0 - 255	
20.Prism1	0 - 255	
21.Prism 1R	0 - 255	

	22.Prism2	0 - 255
	23.Prism 2R	0 - 255
	24.Pattern	0 - 255
	25.Pattern R	0 - 255
	26.Beam Shpae	0 - 255
	27.Beam Shpae	0 - 255
	28.Frost	0 - 255
	29.Zoom	0 - 255
	30.Zoom F	0 - 255
	31.Focus	0 - 255
	32.Focus F	0 - 255
	33.Hot-spot	0 - 255
	34.Strobe	0 - 255
	35.Dimmer	0 - 255
	36.Dimmer Spd	0 - 255
Advanced	Pan Invert	Close/Open
	Tilt Invert	Close/Open
	P/T Rectrify	Close/Open
	Pan offset	1-150
	Tilt offset	1-150
	Data hold	On/off
	Scene time	1-255
	Lamp when	Manual time
Status	Stepper onfo	01.Pan
		03.Tilt
		GOBO1
		GOBO2
		GOBO3
		CMY1

		CMY2
		CMY3
		COLOR1
		COLOR2
		PRISM1
		PRISM2
		PRISM ROT1
		PRISM ROT2
		FOCUS1
		ZOOM1
		FROST
		MILD
		DIMMER
		MT2
	Error logging	
	Fixture Status	Communication prec 100%
		Error CNT
		LIGHT Temperature
		Panel Temperature
		Sensor1 Temperature
		Sensor2 Temperature
	Version	H3.12
	Light time	000000
	Total time	000000
	Serial Number	
Escape		

5.How to Set the DMX control

5.1 DMX 512 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 from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or c

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 power is disconnected to the unit.

4. Each lighting 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).

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 pin 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 (+)

Pin 4/5: Not used.

5.2 DMX Address Setting

By 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 when the DMX Address is showing on the display. Pressing the ENTER button and the display will blink. Use the UP/DOWN buttons to change the DMX 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 about one second or wait for about 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
39CH	1	40	79	118

6.DMX Mode

39CH Mode

39CH	DMX value	Function
1	0 - 255	Pan Pan movement by 540° (128=default)
2	0 - 255	Pan Fine Fine control of pan movement (0=default)
3	0 - 255	Tilt Tilt movement by 270° (128=default)
4	0-255	Tilt fine Fine control of tilt movement (0=default)
5	0 1 2-127 128-189 190-193 194-255	Pan control Pan range 540°, shortcut Off (0=default) Pan range 360°, shortcut On No function (Pan range 540°, shortcut Off) Continuous rotation fast -> slow , Forwards Stop rotation Continuous rotation slow -> fast , Backwards
6	0 1 2 - 255 2 - 255	Pan/Tilt speed , Pan/Tilt time Standard mode (0=default) Max. Speed Mode <i>Pan/Tilt speed mode</i> Speed from max. to min. <i>Pan/Tilt time mode</i> Time from 0.2 s to 25.5 sec.
7	20-21 22-23 24-27 28-29 30-31 32-33 34-35 130-131 132-133 134-135 136-137 138-139	Power/Special functions Display On Display Off Reserved Dimmer curve: Square law Dimmer curve: Linear Fans mode: Auto Fans mode: High Total fixture reset (including pan/tilt) Pan/Tilt reset Colour wheels reset Gobo wheels reset Zoom/Focus/prisms/frost reset
8		LED frequency selection Factory display menu setting: 600Hz

	<p>0-4</p> <p>5-9</p> <p>10-14</p> <p>15-19</p> <p>20-24</p> <p>25-29</p> <p>30-255</p>	<p>Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item is temporarily overridden. PWM frequency from Display menu (fixture utilizes PWM frequency set in the display menu item Frequency Setup).</p> <p>300 Hz</p> <p>600 Hz (10=default)</p> <p>1200 Hz</p> <p>2400 Hz</p> <p>High</p> <p>Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).</p>
9		Empty
10		Empty
11		Colour wheel
		<i>Continual positioning</i>
	0	Open/white
	9	Deep Red
	18	Deep Blue
	27	Yellow
	37	Light green
	46	Magenta
	55	Lavender
	64	Pink
	73	Dark green
	82	CTO 2700K
	91	Blue
	101	Orange
	110	CTO 3200K
	119	UV (Kongo blue)
	128-129	White
		<i>Positioning</i>
	130-134	Deep Red
	135-138	Deep Blue
	139-143	Yellow
	144-147	Light green
	148-152	Magenta
	153-157	Lavender
	158-161	Pink
	162-166	Dark green
	167-171	CTO 2700K
	172-176	Blue
	177-180	Orange
	181-185	CTO 3200K
	186-189	UV (Kongo blue)
	190 - 215	Forwards rainbow effect from fast to slow

	216 - 217 218 - 243 244 - 249 250 - 255	No rotation Backwards rainbow effect from slow to fast Random colour selection by audio control (Set microphone sensitivity in menu „Personality“) Auto random colour selection from fast to slow
12	0 - 255	Colour wheel - fine positioning Fine positioning (0=default)
13	0 - 255	Cyan Cyan from min. saturation --> full cyan (0=default)
14	0 - 255	Magenta Magenta from min. saturation --> full magenta (0=default)
15	0 - 255	Yellow Yellow from min. saturation --> full yellow (0=default)
16	0-255	Virtual CTO Colour temperature change from 6700K --> 2700K (0=default)
17	0 1-127 128 129-255	Green correction Uncorrected white Minus green --> uncorrected white Uncorrected white (128=default) Uncorrected white --> Plus green
18	0 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44 45-46 47-48 49-50 51-52	Virtual colour wheel No function (0=default) Filter 4 (Medium Bastard Amber) Filter 10 (Medium Yellow) Filter 19 (Fire) Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 88 (Lime Green) Filter 90 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 103 (Straw) Filter 104 (Deep Amber) Filter 105 (Orange) Filter 106 (Primary Red) Filter 111 (Dark Pink) Filter 115 (Peacock Blue) Filter 116 (Medium Blue-Green) Filter 117 (Steel Blue) Filter 118 (Light Blue) Filter 119 (Dark Blue) Filter 120 (Deep Blue) Filter 121 (Filter Green) Filter 128 (Bright Pink)

	53-54 55-56 57-58 59-60 61-62 63-64 65-66 67-68 69-70 71-72 73-74 75-76 77-78 79-80 81-82 83-84 85-86 87-88 89-90 91-92	Filter 131 (Marine Blue) Filter 132 (Medium Blue) Filter 134 (Golden Amber) Filter 135 (Deep Golden Amber) Filter 136 (Pale Lavender) Filter 137 (Special Lavender) Filter 138 (Pale Green) Filter 139 (Primary Green) Filter 141 (Bright Blue) Filter 147 (Apricot) Filter 148 (Bright Rose) Filter 152 (Pale Gold) Filter 154 (Pale Rose) Filter 157 (Pink) Filter 158 (Deep Orange) Filter 162 (Bastard Amber) Filter 164 (Flame Red) Filter 165 (Daylight Blue) Filter 169 (Lilac Tint) Filter 170 (Deep Lavender)
	93-94 95-96 97-98 99-100 101-102 103-104 105-106 107-108 109-110 111-112 113-114 115-116 117-118 119-120 121-122 123-124 125-126 127-128 129-130 131-132 133-255	Filter 172 (Lagoon Blue) Filter 179 (Chrome Orange) Filter 180 (Dark Lavender) Filter 181 (Congo Blue) Filter 197 (Alice Blue) Filter 201 (Full C.T. Blue) Filter 202 (Half C.T. Blue) Filter 203 (Quarter C.T. Blue) Filter 204 (Full C.T. Orange) Filter 205 (Half C.T. Orange) Filter 206 (Quarter C.T. Orange) Filter 247 (Filter Minus Green) Filter 248 (Half Minus Green) Filter 281 (Three Quarter C.T. Blue) Filter 285 (Three Quarter C.T. Orange) Filter 352 (Glacier Blue) Filter 353 (Lighter Blue) Filter 715 (Cabana Blue) Filter 778 (Millennium Gold) Filter 793 (Vanity Fair) Reserved
19	0 1 - 255	CMY and Colour wheel time Function is off (0=default) Time of CMY and Colour wheel movement (0.1sec-->25.5sec.)
20	0 1 - 255 1-50	Zoom/Focus/Frost/Prism time Function is off (0=default) Time of zoom, focus and frost movement (0.1 sec-->25.5 sec.) Time of prism movement (0.1 sec-->5 sec.)

<p>21</p>	<p>0-1</p> <p>2-8</p> <p>9-15</p> <p>16-22</p> <p>23-29</p> <p>30-36</p> <p>37-43</p> <p>44-50</p> <p>51-57</p> <p>58-64</p> <p>65-71</p> <p>72-78</p> <p>79-89</p> <p>90-100</p> <p>101-111</p> <p>112-122</p> <p>123-133</p>	<p>Static gobo wheel</p> <p>Open/hole (0=default)</p> <p><i>Positioning</i></p> <p>Gobo 1</p> <p>Gobo 2</p> <p>Gobo 3</p> <p>Gobo 4</p> <p>Gobo 5</p> <p>Gobo 6</p> <p>Gobo 7</p> <p>Beam reducer 1</p> <p>Beam reducer 2</p> <p>Beam reducer 3</p> <p>Beam reducer 4</p> <p><i>Shaking gobos from slow to fast</i></p> <p>Gobo 1</p> <p>Gobo 2</p> <p>Gobo 3</p> <p>Gobo 4</p> <p>Gobo 5</p>
	<p>134-144</p> <p>145-155</p> <p>156-166</p> <p>167-177</p> <p>178-188</p> <p>189-199</p> <p>200-201</p> <p>202 - 222</p> <p>223 - 243</p> <p>244 - 249</p> <p>250 - 255</p>	<p>Gobo 6</p> <p>Gobo 7</p> <p>Beam reducer 1</p> <p>Beam reducer 2</p> <p>Beam reducer 3</p> <p>Beam reducer 4</p> <p>Open/hole</p> <p>Forwards gobo wheel rotation from fast to slow</p> <p>Backwards gobo wheel rotation from slow to fast</p> <p>Reserved</p> <p>Auto random gobo selection from fast to slow</p>
<p>22</p>	<p>0-4</p> <p>5-7</p> <p>8-10</p> <p>11-13</p> <p>14-16</p> <p>17-19</p> <p>20-22</p> <p>23-25</p> <p>26-28</p> <p>29-31</p> <p>32-34</p> <p>35-37</p> <p>38-40</p>	<p>Rotating gobo wheel</p> <p><i>Index - set indexing on channel 24</i></p> <p>Open/Hole (0=default)</p> <p>Gobo 1</p> <p>Gobo 2</p> <p>Gobo 3</p> <p>Gobo 4</p> <p>Gobo 5</p> <p>Gobo 6</p> <p>Gobo 7</p> <p>Gobo 8</p> <p>Gobo 9</p> <p><i>Rotation - set rotation on channel 24</i></p> <p>Gobo 1</p> <p>Gobo 2</p> <p>Gobo 3</p> <p>Gobo 4</p>

	<p>41-43 44-46 47-49 50-52 53-55 56-59</p> <p>60 67 74 81 88 95 102 109 116 123 130</p>	<p>Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Continual positioning <i>Index - set indexing on channel 24</i> Open/hole Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Open/hole Continual positioning <i>Rotation - set rotation on channel 24</i></p>
	<p>131 138 145 152 159 166 173 180 187 194 201 202 - 222 223 - 243 244 - 249 250-255</p>	<p>Open/hole Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Open/hole Forwards gobo wheel rotation from fast to slow Backwards gobo wheel rotation from slow to fast Reserved Auto random gobo selection from fast to slow</p>
23	0 - 255	<p>Rotating gobo wheel - fine positioning Fine positioning (0=default)</p>
24	<p>0 - 255</p> <p>0 1 - 127 128 129 - 255</p>	<p>Rot. Gobo indexing/rotation <i>Gobo indexing - set position on channel 22</i> Gobo indexing (128=default) <i>Gobo rotation - set position on channel 22</i> No rotation Gobo rotation from fast to slow - CW (clockwise) No rotation (128=default) Gobo rotation from slow to fast - CCW (counterclockwise)</p>
25	0-255	<p>Rot. Gobo indexing/rotation - fine Fine indexing/rotation (0=default)</p>

<p>26</p>	<p>0-3</p> <p>4-7</p> <p>8-11</p> <p>12-15</p> <p>16-19</p> <p>20-255</p>	<p>Prism wheel 1 <i>Note: prism wheel 1 and frost cannot be inserted into light beam at the same time</i> Open position/hole (0=default) <i>Index - set indexing on channel 27</i></p> <p>Prism 1- 18-facet circular Prism 2 - 6-facet linear <i>Rotation - set rotation on channel 27</i></p> <p>Prism 1- 18-facet circular Prism 2 - 6-facet linear Reserved</p>
<p>27</p>	<p>0 - 255</p> <p>0</p> <p>1 - 127</p> <p>128</p> <p>129-255</p>	<p>Prism wheel 1 indexing/rotation <i>Prism indexing - set position on channel 26</i> Prism indexing <i>Prism rotation - set position on channel 26</i></p> <p>No rotation Prism rotation from fast to slow - CW (clockwise)** No rotation (128=default) Prism rotation from slow to fast - CCW (counterclockwise)**</p>
<p>28</p>		<p>Prism wheel 2</p>
	<p>0-3</p> <p>4-7</p> <p>8-11</p> <p>12-15</p> <p>16-19</p> <p>20-255</p>	<p><i>Note: prism wheel 2 and frost cannot be inserted into light beam at the same time</i> Open position/hole (0=default) <i>Index - set indexing on channel 29</i></p> <p>Prism 1 - 6-facet linear multicoloured Prism 2 - 8-facet 12° circular <i>Rotation - set rotation on channel 29</i></p> <p>Prism 1 - 6-facet linear multicoloured Prism 2 - 8-facet 12° circular Reserved</p>
<p>29</p>	<p>0 - 255</p> <p>0</p> <p>1 - 127</p> <p>128</p> <p>129-255</p>	<p>Prism wheel 2 indexing/rotation <i>Prism indexing - set position on channel 28</i> Prism indexing <i>Prism rotation - set position on channel 28</i></p> <p>No rotation Prism rotation from fast to slow - CW (clockwise)** No rotation (128=default) Prism rotation from slow to fast - CCW (counterclockwise)**</p>
<p>30</p>	<p>0 - 3</p> <p>4-5</p> <p>6-7</p>	<p>SpektraBeam (Beam effects) <i>When SpektraBeam is used, the following channels are not active: Prism Wheel 1, Prism Wheel 2, Prism Wheel 1 rot., Prism Wheel 2 rot., Static gobo, Rot. Gobo gobo, Rot. Gobo Rotation (for Effects 13,14,15 only: Cyan, Magenta, Yellow)</i> <i>All effects were done at max. zoom (0 DMX)</i> Open position/hole (0=default) <i>Index - set indexing on channel 31</i></p> <p>Effect 1 Effect 2</p>

	<p>8-9 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25 26-27</p> <p>28-29 30-31 32-33</p> <p>34-35 36-37 38-39 40-41 42-43 44-45</p>	<p>Effect 3 Effect 4 Effect 5 Effect 6 Effect 7 Effect 8 Effect 9 Effect 10 Effect 11 Effect 12</p> <p><i>Effects 13, 14, 15 block Cyan, Magenta and Yellow channels</i></p> <p>Effect 13 Effect 14 Effect 15</p> <p><i>Rotation - set rotation on channel 31</i></p> <p>Effect 1 Effect 2 Effect 3 Effect 4 Effect 5 Effect 6</p>
	<p>46-47 48-49 50-51 52-53 54-55 56-57</p> <p>58-59 60-61 62-63 64-255</p>	<p>Effect 7 Effect 8 Effect 9 Effect 10 Effect 11 Effect 12</p> <p><i>Effects 13, 14, 15 block Cyan, Magenta and Yellow channels</i></p> <p>Effect 13 Effect 14 Effect 15 Reserved</p>
31	<p>0 - 255 0 1 - 127 128 129-255</p>	<p>SpektraBeam rotation and indexing <i>When SpektraBeam is used, the following channels are not active: Prism Wheel 1, Prism Wheel 2, Prism Wheel 1 rot., Prism Wheel 2 rot., Static gobo, Rot. Gobo gobo, Rot. Gobo Rotation (for Effects 13,14,15 only: Cyan, Magenta, Yellow)</i></p> <p><i>SpektraBeam effect indexing - set position on channel 30</i> SpektraBeam effect indexing <i>SpektraBeam effect rotation - set position on channel 30</i> No rotation SpektraBeam effect rotation from fast to slow - CW (clockwise)** No rotation (128=default) SpektraBeam effect rotation from slow to fast - CCW (counterclockwise)**</p>
32	<p>0</p>	<p>Frost <i>Note: prism 1or 2 and frost cannot be be inserted into light beam at the same time</i> Open (0=default)</p>

		(Frost cannot stay in intermediate position, it will auto-move to full/open position). <i>Light Frost</i> Light Frost from 0% to 100% 100% Light Frost Pulse closing from slow to fast Pulse opening from fast to slow Ramping from fast to slow Open <i>Medium Frost</i> Medium Frost from 0% to 100% 100% Medium Frost Pulse closing from slow to fast Pulse opening from fast to slow Ramping from fast to slow Open <i>Combined Frost</i> Medium Frost from 0% to 100% (Light Frost inserted) 100% Medium Frost (Light Frost inserted) Pulse closing from slow to fast Pulse opening from fast to slow Ramping from fast to slow
	1-50	
	51-53	
	54-63	
	64-73	
	74-83	
	84-86	
	87-136	
	137-139	
	140-149	
	150-159	
	160-169	
	170-172	
	173-222	
	223-225	
	226-235	
	236-245	
	246-255	
33		Zoom
	0 - 255	Zoom from max. to min.beam angle (128=default)
34		Zoom - fine
	0-255	Fine zooming (0=default)
35		Focus
	0 - 255	Continuous adjustment from far to near (128=default)
36		Focus - fine
	0- 255	Fine focusing (0=default)
37		Shutter/ strobe
	0 - 31	Shutter closed
	32 - 63	Shutter open (32=default)
	64 - 95	Strobe-effect from slow to fast
	96 - 127	Shutter open
	128 - 143	Opening pulse in sequences from slow to fast
	144 - 159	Closing pulse in sequences from fast to slow
	160 - 191	Shutter open
	192 - 223	Random strobe-effect from slow to fast
	224 - 255	Shutter open
38		Dimmer intensity
	0 - 255	Dimmer intensity from 0% to 100% (0=default)

39		Dimmer intensity - fine
	0 - 255	Fine dimming (0=default)

7. 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 main fuse.
2. Measure the mains voltage on the main connector.
3. 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 link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and

DMX polarity.

3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.

4. Try to use 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 interface circuit.

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

1. You may have a break in the DMX cabling. 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 does not receive DMX signal.
 2. Check microphone to see if it is good by tapping the microphone
- E. One of the channels is not working well
1. The stepper motor might be damaged or the cable connected to the PCB is broken.
 2. The motor's drive IC on the PCB might be out of condition
6. Fixture Cleaning

The cleaning of external optical lenses and/or mirrors 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.