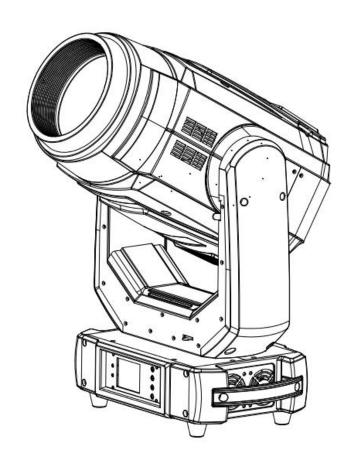


# Mega pointe BSW480 User Manual



# **Guangzhou Mitek Light Co.,LTD**

Email: info@miteklight.com Website: www.miteklight.com

Add: No. 21 Dongfeng Avenue, Automobile Industry Base, Huadu District, Guangzhou

### **TECHNICAL PARAMETERS**

### **Light source**

Light source model: PHILIPS-MSD Silver 480W LL

Maximum power: 800W

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

Color temperature: 7800k Lamp life: 4000 hours

**Optical** 

Beam angle: 2.2 ° - 50 °

**Controls** 

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

Channel mode: 34CH/ 39CH

Support RDM function, DMX software upgrade function

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

Display: Color LCD display

**Effect** 

Color Wheel: 13colors + open, with rainbow effect

Virtual Colour wheel (Linear CMY)

66 preset colours

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

Rotation gobo wheel:9 gobos+openAnimation Wheel

Frost: With frost effect Focus: motorized focus

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

Prism: 2 prism wheel

Prism wheel 1: Rotating 6-facet linear prism with continuous rotation in both directions

1

Rotating 8-facet 12° circular prism with continuous rotation in both directions

Rotating cylindrical prism with continuous rotation in both directions

Prism wheel 2

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

Rotating 32-facet circular prism with continuous rotation in both directions

Rotating 8-facet 18° circular prism with continuous rotation in both directions

Frost: With frost effect Focus: motorized focus

Construction

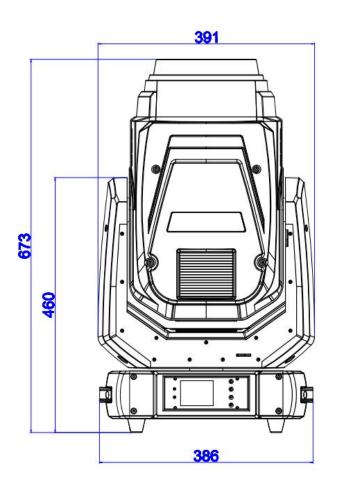
Pan: 540 degree + fine (Magnetic encoder)
Tilt: 270 degree + fine (Magnetic encoder)

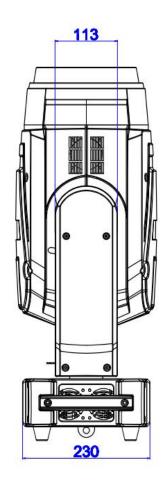
Weight&Dimension

Package size:650\*600\*495MM

Net weight: 21.5kg

# **SIZE DRAWING**





## **LUX Date**

PHOTO METRICS DIAGRAM (Beam)

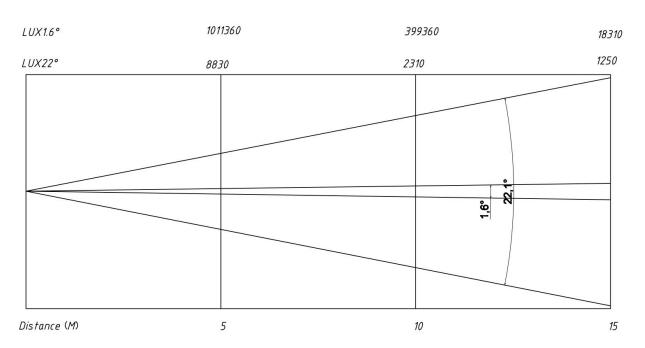
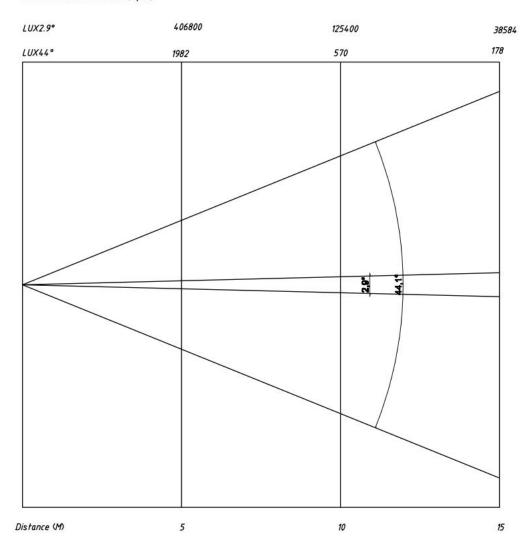


PHOTO METRICS DIAGRAM (Spot)



# **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 a lso 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 o f the unit.

It's important to ground the yellow/green conductor to earth in order to avoid electric shock. The unit is fo r 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 cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by takin g its base.

Maximum ambient temperature is Ta: 40 °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 - hand during itsoperatio n. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving. In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by y ourself. 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 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 NO T 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 you rself. In the unlikely event your unit may require service, please contact your nearest dealer.

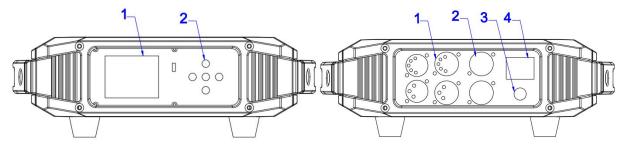
### Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed t o avoid vibration and slipping while operating. And make sure that the structure to which you are attachin g the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safe ty 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.

# How To Set The Unit

### Fixture Overview



## 1. Display:

### To show the various menus and the selected functions

### 2. 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	

### 1. DMX IN:

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

DMX OUT:

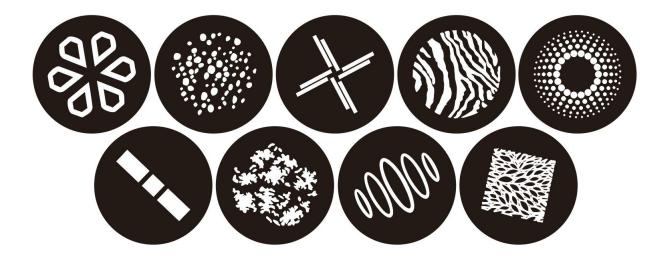
DMX512 link, use 3/5 - pin XLR cable to link the next fixture

- 2. Power Cable: IN/OUT
- 3. Fuse (T 6.3A):

Protects the unit from over - voltage or short circuit

4. Power Switch: Turns On/Off the power.

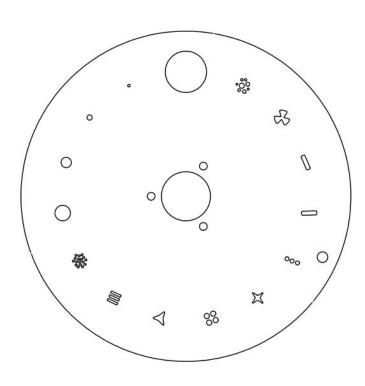
# **Rotating Gobo Wheel**

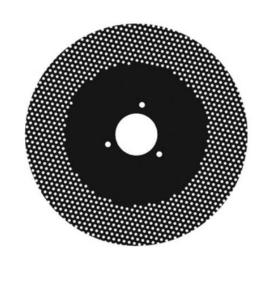


5

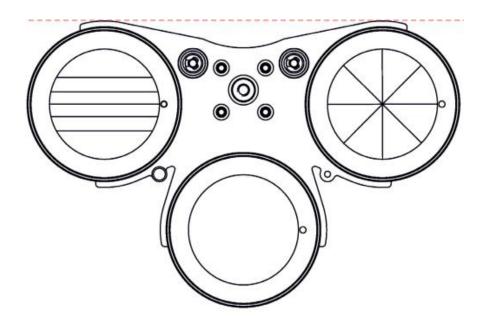
# **Fixed Gobo Wheel**

# **Animation Wheel**

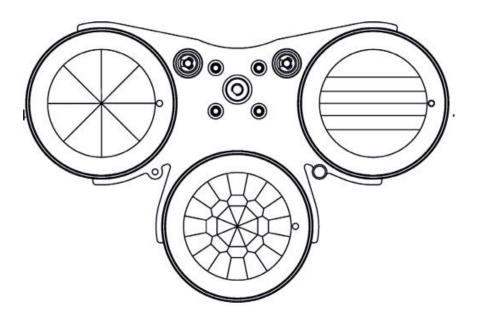




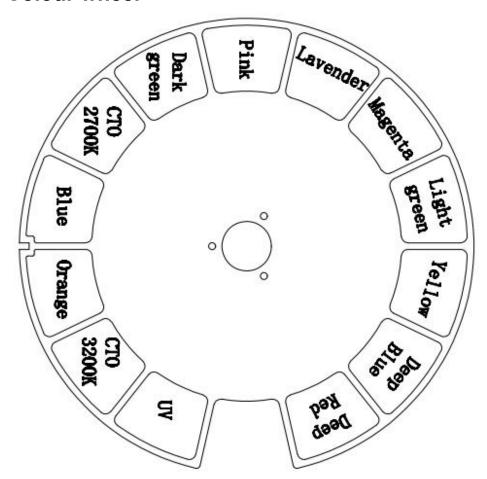
# **Prism Wheel 1**



# **Prism Wheel 2**



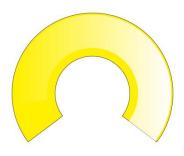
# **Colour wheel**



### Virtual Colour wheel







### DANGER!

Install the gobos with the device switched off only.

Unplug from mains before changing gobos!

### **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:

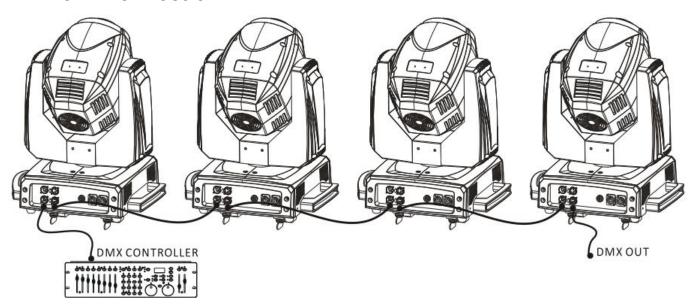
MAIN	SECOND	THIRD
	Address	001 -512
Dmx Address	Dmx Mode	34/39CH
	SysRst	
Work Mode	Dmx Ctrl	
	Auto Run	
	Sound Ctrl	
	Scene Mode	Auto /1-10
	M/S Choose	Auto /1-10
	Light Switch	ON/OFF
Display	Language	English/中文
	Screen saver	Mode1-4/off

DMX Indicate   Mode1-3		Screen Rot Auto/Forward	
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     11.CMY times		DMX Indicate	Mode1-3
Touch Enable ON/off  Touch Rectify  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		Singnal Bright	1-10
Touch Rectify  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		Screen Light	1-10
Scene         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           10.Eft Speed         0 - 255           11.CMY times         0 - 255		Touch Enable	ON/off
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		Touch Rectify	
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	Scene	Scene Select	1-10
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		Scene times	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		Control mode	ON/OFF
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		01.Pan	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		02.Pan Fine	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		03.Tilt	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		04.Reset	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		05.Cyan	0 - 255
08.Colour       0 - 255         09.Colour F       0 - 255         10.Eft Speed       0 - 255         11.CMY times       0 - 255		06.Magenta	0 - 255
09.Colour F 0 - 255  10.Eft Speed 0 - 255  11.CMY times 0 - 255		07.Yellow	0 - 255
10.Eft Speed 0 - 255 11.CMY times 0 - 255		08.Colour	0 - 255
11.CMY times 0 - 255		09.Colour F	0 - 255
		10.Eft Speed	0 - 255
12.Colour3 0 - 255		11.CMY times	0 - 255
		12.Colour3	0 - 255
13.ZFFP times 0 - 255		13.ZFFP times	0 - 255
14.Eft Irt 0 - 255		14.Eft Irt	0 - 255
15.Eft gobo 0- 255		15.Eft gobo	0- 255
16.MODE 0 - 255		16.MODE	0 - 255
17.GOBO 0 - 255		17.GOBO	0 - 255
18.ROt gobo 0 - 255		18.ROt gobo	0 - 255
19.Gobe RF 0 - 255		19.Gobe RF	0 - 255
20.Prism1 0 - 255		20.Prism1	0 - 255
21.Prism 1R 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 - 2	
	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		

### **DMX 512 Connection**



	COMMON		M
DMX INPUT (+3)	DMX +	DMX OUTPUT	200
•2	DMX -	DMX OUTPUT	10
	COMMON DMX -		
DMX INPUT	DMX +	O2 <sup>O1</sup> DMX OUTPUT	(50 <sub>40</sub> )
Ø4⊕5	Not Used Not Used	0405	1020
			M

- 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 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.

# **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	Unit 2	Unit 3	Unit 4
	Address	Address	Address	Address
34CH	1	35	69	103
39CH	1	40	79	118

# DMX Mode 34/39CH Mode

34CH	39CH	DMX value	Function
1CH	1CH	000-255	X-540°
2CH	2CH	000-255	X Fine
3 CH	3 CH	000-255	Y-270°
4 CH	4 CH	000-255	Y Fine
5 CH	5 CH	000-255	XY speed
6CH	6CH	0 - 129	
		130 - 139	Lamp On
		140 - 149	Pan/Tilt reset
		150 - 199	Effect wheel reset

7			
		200 - 209	Total reset
		210 - 229	Reserved
		230 - 239	Lamp Off
		240 - 255	Reserved
7	7		Cyan
		0 - 255	Cyan from min. saturation> full cyan (0=default)
8	8		Magenta
		0 - 255	Magenta from min. saturation> full magenta (0=default)
9	9		Yellow
		0 - 255	Yellow from min. saturation> full yellow (0=default)
10	10	0-129	Open/white (0=default)
		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	No rotation
		218 - 243	Backwards rainbow effect from slow to fast
			14

		244 - 249	Random colour selection by audio control
			(Set microphone sensitivity in menu "Personality")
		250 - 255	Auto random colour selection from fast to slow
11	*		Colour wheel - fine positioning
		0 - 255	Fine positioning (0=default)
12	11	0-132	CMY Macro
		133-255	No rotation
13	12		Effect Speed
			Speed of Cyan and Magenta and Yellow movement
		0-255	Speed of CMY movement from max. to min. (0=default)
14	13		CMY & Colour wheel time
		0	Function is off (0=default)
		1 - 255	Time of CMY and col. wheel movement (0.1sec>25.5sec.)
15	14		Zoom & Focus & Frost & Prism time
		0	Function is off (0=default)
		1 - 255	Time of zoom/ focus movement (0.1 sec>25.5 sec.)
		1-100	Time of frost movement (0.1 sec>10 sec)
		1-50	Time of prism movement (0.1 sec>5 sec.)
16	15		Effect wheel positioning
		0-19	No function (0=default)
		20-127	Proportional indexing
		128-170	Ramping from open to full position ( max>min. speed)
		171-213	Ramping from open to half position ( max>min. speed)
		214-255	Ramp. from half position to full position ( max>min. speed)
17	16		Effect wheel rotation
		0	No rotation
		1 - 127	Forwards rotation from fast to slow
		128	No rotation (128=default)
		129 -255	Backwards rotation from slow to fast
18	17		Effect wheel animations
		0-3	No rotation

		4-43	Macro
		44-255	No rotation
19	18		Static gobo wheel
		0-3	Open/Hole (0=default)
			Positioning
		4-9	Gobo 1
		10-15	Gobo 2
		16-21	Gobo 3
		22-27	Gobo 4
		28-33	Gobo 5
		34-39	Gobo 6
		40-45	Gobo 7
		46-51	Gobo 8
		52-57	Gobo 9
		58-63	Gobo 10
		64-69	Beam reducer 1
		70-75	Beam reducer 2
		76-81	Beam reducer 3
		82-87	Beam reducer 4
			Shaking gobos from slow to fast
		88-95	Gobo 1
		96-103	Gobo 2
		104-111	Gobo 3
		112-119	Gobo 4
		120-127	Gobo 5
		128-135	Gobo 6
		136-143	Gobo 7
		144-151	Gobo 8
		152-159	Gobo 9
		160-167	Gobo 10
		168-175	Beam reducer 1
		176-183	Beam reducer 2
		184-191	Beam reducer 3

		400 400	D 4
		192-199	Beam reducer 4
		200-201	Open/hole
		202 - 222	Forwards gobo wheel rotation from fast to slow
		223 - 243	Backwards gobo wheel rotation from slow to fast
		244 - 249	Random gobo selection by audio control
			(Set microphone sensitivity in menu "Personality")
		250 - 255	Auto random gobo selection from fast to slow
20	19		Rotating gobo wheel
			Index - set indexing on channel 21/20
		0	Open/Hole (0=default)
		1-4	Hole (flat field)
		5-7	Gobo 1
		8-10	Gobo 2
		11-13	Gobo 3
		14-16	Gobo 4
		17-19	Gobo 5
		20-22	Gobo 6
		23-25	Gobo 7
		26-28	Gobo 8
		29-31	Gobo 9
			Rotation - set rotation on channel 21/20
		32-34	Gobo 1
		35-37	Gobo 2
		38-40	Gobo 3
		41-43	Gobo 4
		44-46	Gobo 5
		47-49	Gobo 6
		50-52	Gobo 7
		53-55	Gobo 8
		56-59	Gobo 9
			Shaking gobo from slow to fast
			Index - set indexing on channel 21/20
		60-67	Gobo 1

		68-75	Gobo 2
		76-83	Gobo 3
		84-91	Gobo 4
		92-99	Gobo 5
		100-107	Gobo 6
		108-115	Gobo 7
		116-123	Gobo 8
		124-129	Gobo 9
			Shaking gobo from slow to fast
			Rotation - set rotation on channel 21/20
		130-137	Gobo 1
		138-145	Gobo 2
		146-153	Gobo 3
		154-161	Gobo 4
		162-169	Gobo 5
		170-177	Gobo 6
		178-185	Gobo 7
		186-193	Gobo 8
		194-199	Gobo 9
		200 - 201	Open/hole
		202 - 222	Forwards gobo wheel rotation from fast to slow
		223 - 243	Backwards gobo wheel rotation from slow to fast
		244 - 249	Random gobo selection by audio control
			(Set microphone sensitivity in menu "Personality")
		250 - 255	Auto random gobo selection from fast to slow
21	20		Rot. gobo indexing and rotation
			Gobo indexing - set position on channel 20/19
		0 - 255	Gobo indexing
			Gobo rotation - set position on channel 20/19
		0	No rotation
		1 - 127	Forwards gobo rotation from fast to slow
		128	No rotation (128=default)
		129 - 255	Backwards gobo rotation from slow to fast

22	*		Rot. gobo indexing/rotation - fine
		0-255	Fine indexing/rotation (0=default)
23	21		Prism wheel 1
			This wheel is blocked If Rotating gobo wheel >0 DMX
		0 - 3	Open position/hole (0=default)
			Index - set indexing on channel 24/22
		4-7	Prism 1 - 6-facet linear
		8-11	Prism 2 - cylindrical
		12-15	Prism 3 - 8-facet 12° circular
			Rotation - set rotation on channel 24/22
		16-19	Prism 1 - 6-facet linear
		20-23	Prism 2 - cylindrical
		24-27	Prism 3 - 8-facet 12° circular
		28-255	Raw DMX
24	22		Prism wheel 1 indexing/rotation
			Prism indexing - set position on channel 23/21
		0 - 255	Prism 1 indexing
			Prism 1 rotation - set position on channel 23/21
		0	No rotation
		1 - 127	Forwards prism rotation from fast to slow
		128	No rotation (128=default)
		129-255	Backwards prism rotation from slow to fast
25	23		Prism wheel 2
		0 - 3	Open position/hole (0=default)
			Index - set indexing on channel 26/24
		4-7	Prism 1 - 6-facet linear
		8-11	Prism 2 - 32-facet circular
		12-15	Prism 3 - 8-facet 18° circular
			Rotation - set rotation on channel 26/24
		16-19	Prism 1 - 6-facet linear
		20-23	Prism 2 - 32-facet circular
		24-27	Prism 3 - 8-facet 18° circular
		28-255	Raw DMX

26	24		Prism wheel 2 indexing/rotation
			Prism indexing - set position on channel 25/23
		0 - 255	Prism 1 indexing
			Prism 1 rotation - set position on channel 25/23
		0	No rotation
		1 - 127	Forwards prism rotation from fast to slow
		128	No rotation (128=default)
		129-255	Backwards prism rotation from slow to fast
27	25		Pattern
		0-3	No rotation
		4-67	Macro
		68-255	No rotation
28	26		Pattern rotation and indexing
			The channels are blocked: Prism Wheel 1/2, Prism Wheel 1/2 rot.
			Pattern indexing - set position on channel 27/25
		0 - 255	Pattern indexing
			Pattern rotation - set position on channel 27/25
		0	No rotation
		1 - 127	Forwards pattern rotation from fast to slow
		128	No rotation (128=default)
		129-255	Backwards pattern rotation from slow to fast
29	27		Beam shaper selection
		0-3	No rotation
		4-35	Macro
		36-255	No rotation
30	28		Beam shaper rotation and indexing
			Beam shaper indexing - set position on channel 29/27
		0 - 255	Shaper indexing
			Beam shaper rotation - set position on channel 29/27
		0	No rotation
		1 - 127	Forwards shaper rotation from fast to slow
		128	No rotation (128=default)
		129-255	Backwards shaper rotation from slow to fast

31	29		Frost
		0	Open (0=default)
			Light Frost
			Max. time of Light frost movement 0>100% (100%>0) is 10 sec.
		1-50	Light Frost from 0% to 100%
		51-53	100% Light Frost
		54-63	Pulse closing from slow to fast
		64-73	Pulse opening from fast to slow
		74-83	Ramping from fast to slow
		84-86	Open
			Medium Frost
			Max. time of Medium frost movement 0>100% (100%>0) is 10 sec.
		87-136	Medium Frost from 0% to 100%
		137-139	100% Medium Frost
		140-149	Pulse closing from slow to fast
		150-159	Pulse opening from fast to slow
		160-169	Ramping from fast to slow
		170-172	Open
			Combined Frost
			Note: Combined Frost and Prism weeel 1 cannot be inserted into light beam at the same time . The Prism wheel 1 has priority to Combined Frost .
			Max. time of Medium frost movement 0>100% (100%>0) is 10 sec.
		173-222	Medium Frost from 0% to 100% (Light Frost inserted)
		223-225	100% Medium Frost (Light Frost inserted)
		226-235	Pulse closing from slow to fast
		236-245	Pulse opening from fast to slow
		246-255	Ramping from fast to slow
32	30		Zoom
		0 - 255	Zoom from max. to min.beam angle (128=default)
33	*		Zoom - fine
		0-255	Fine zooming (0=default)

34	31		Focus
		0 - 255	Continuous adjustment from far to near (128=default)
35	*		Focus Fine
		0- 255	Fine focusing (0=default)
36	32		Hot-Spot control
		0	Automatic Hot-Spot control (0=default)
		1-255	Hot-Spot control (from min. to max. intensity of image centre)
37	33		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, Full lamp power
38	34		Dimmer intensity
		0 - 255	Dimmer intensity from 0% to 100% (0=default)
39	*		Dimmer intensity - fine
		0 - 255	Fine dimming (0=default)

# **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 theunit 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 optimizelight 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.

### **REMARK**

The product has perfect performance and intergrity packing.

All users should be strictly comply with the warning and operating instructions as stated.

Or we aren 't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company 's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.

