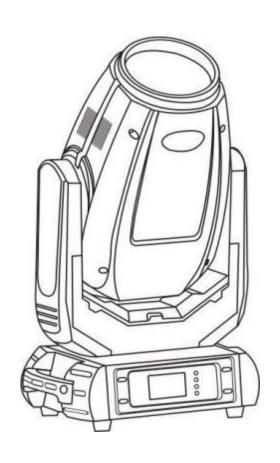


BSW280User Manual



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: 280W(10R)

Maximum power: 470W

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

Lamp life: 2000hrs (Stand mode) 3000hrs (Eco mode)

Color temperature: 2800k-8500k

Optical

High luminous-efficiency glass reflector Beam angel: 5°- 20°(spot application)

2.5°- 10°(beam application)

Controls

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

Channel mode: 16/24 ch mode

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

Control: graphic touch screen for fixture setting and addressing Gravitation sen sor for auto

screen positioning

Battery backup of the touch screen

Readout fixture and lamp usage, receiving DMX values, temperatures. Etc Built-in analyzer

for easy fault finding, error messages

Remotely switching on/off the lamp Built-in demo sequences

Black-out while head moving, color or gobo changing. Self-resettable thermos-fuse

Effect

Color Wheel: one color wheel, 13 kinds of color chips in one color wheel

Static Gob Wheel:10 metal gobos & 4 beam reducers

Rotation Gob Wheel:9 Glass gobos can be indexed and rotated in both directions at different

1

speeds

Gobo wheels continuous rotation

Glass gobos: outside diameter=15.9mm, image diametPrisms:

Rotation 6-facet linear prism with continuous rotation

in both directions Rotation 16-facet circular prism with continuous rotation in bo

th directionser=12.5mm, thickness=1.1mm

Frost filter :Separate, variable frost filter

Zoom:linear motorized zoom

Strobe: Strobe effect with variable speed (max.15 flashes/sec)

Focus: linear adjustment

Dimmer: 0-100% linear dimmer(16bit)

Construction

Pan: 540 degree + fine Tilt: 270 degree + fine

Working environment temperature: 0 ° C-45 °

Weight&Dimension

Package size:460*360*490mm

Net weight: 14KG

Minimum Distances

Min distance from flammable surface :1m

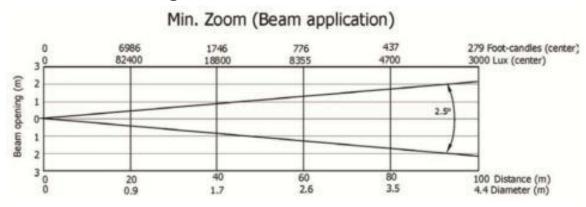
Min distance to lit objects (Stand Mode-280W):10m Min distance to lit objects (Eco

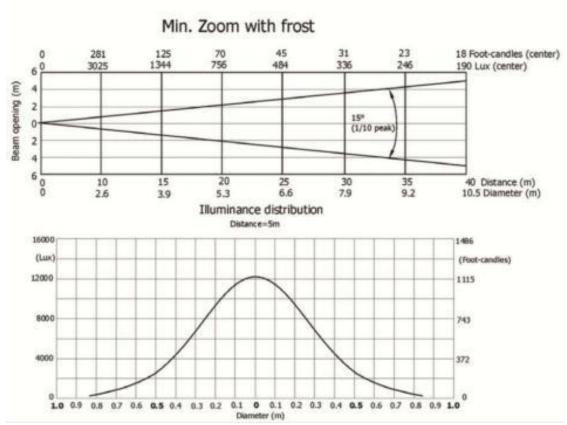
Mode-230W):7.5m

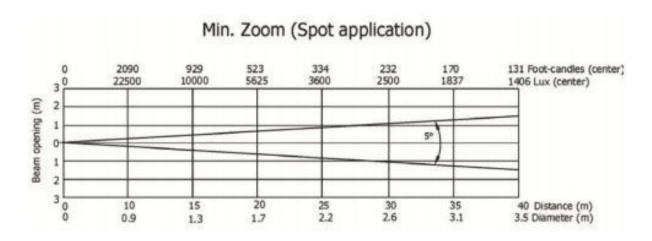
Total Heat Dissipation

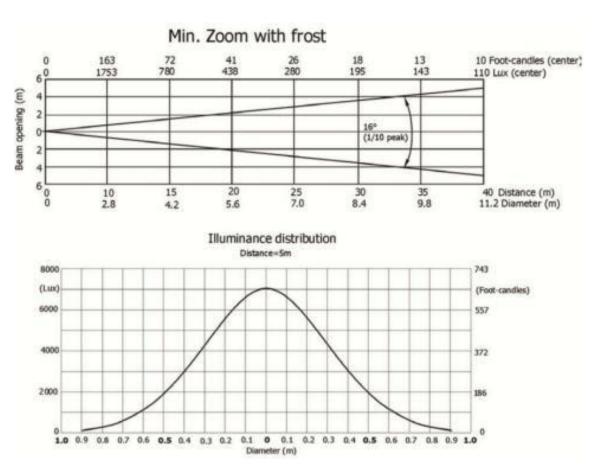
1600 BTU/h (calculated) 469 Wh (calculated)

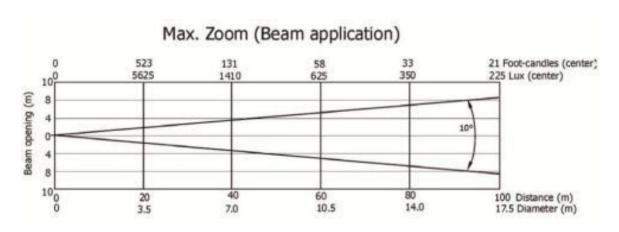
Photometric diagrams

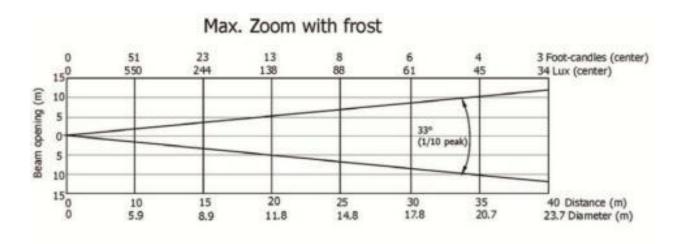


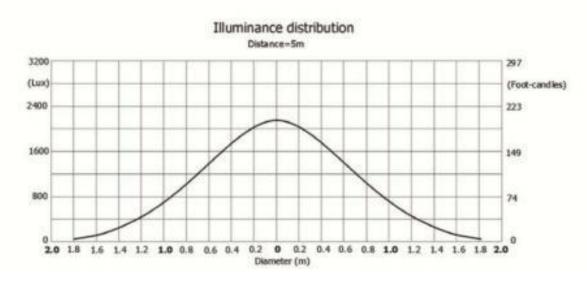


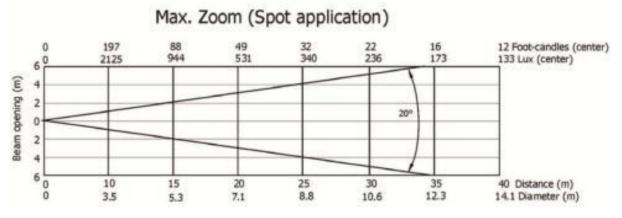






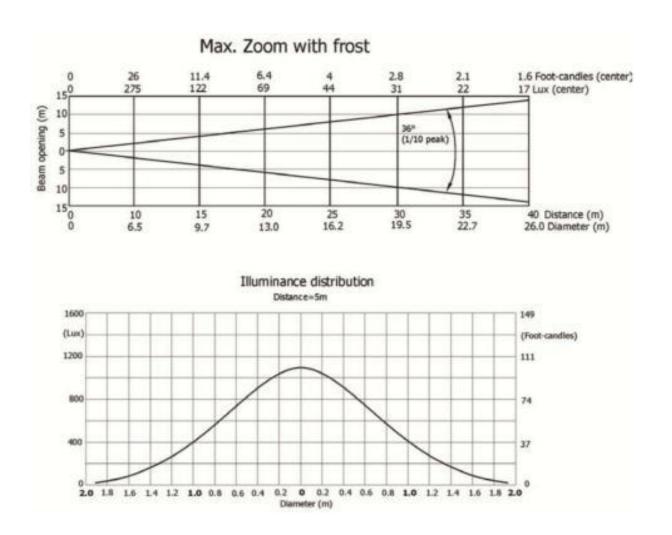






4

Mitek[®]



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 befo re using the unit.

Before operating, ensure that the voltage and frequency of power s upply match the power requirements of the unit.

It's important to ground the yellow/green conductor to earth in orde r to avoid electric shock. The unit is for indoor use only. Use only i n a dry location.

The unit must be installed in a location with adequate ventilation, a t least 50cm from adjacent surfaces. Be sure that no ventilation slo ts 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 t aking its head only, but always by taking its base.

Maximum ambient temperature is Ta: $40\,^{\circ}$ C . DO NOT operate it where the temperature is higher than this. Unit surface temperature may reach up to $85\,^{\circ}$ C . DO NOT touch the housing bare-hand during itsoperation. Turn off the power and all ow about 15 minutes for the unit to cool down before replacing or serving.

In the event of serious operating problem, stop using the unit imme diately. Never try to repair the unit by yourself. Repairs carried ou t by unskilled people can lead to damage or malfunction.

Please contact the nearest authorized technical assistance cente r. Always use the same type spare parts. DO NOT touch any wire during operation as high voltage might b e causing electric shock. Warning

To prevent or reduce the risk of electrical shock or fire, do not expo se 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 t hey 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

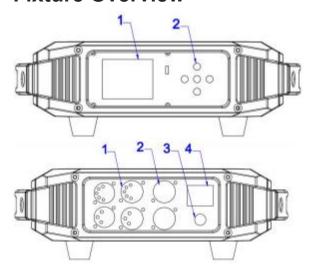
There are no user serviceable parts inside the unit. DO NOT open t he housing or attempt any repairs yourself. In the unlikely event yo ur unit may require service, please contact your nearest dealer. Installation

The unit should be mounted via its screw holes on the bracket. Alw ays ensure that the unit is firmly fixed to avoid vibration and slippin g 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 t imes 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 fixe d at a place where is out of the touch of people and has no one pas s 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 | |

3. DMX IN:

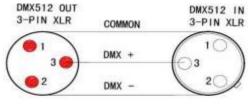
DMX512 link, use 3/5-pin XLR cable to link the fixture and th e DMX controller

4.DMX OUT:

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

- 5. Power Cable: IN/OUT
- 6. Fuse (T 6.3A):

Protects the unit from over-voltage or short circuit



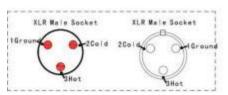


Figure 2

XLR Pin Configuration

pint=Ground

pin2=Data Compliment(negative)

pln3=Data true(positive)

MAIN FUNCTION

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.

Panel operation

1. Brief

The light panel diagram show as Figure 1, Left area is TFT Displayer, support touch, and right area is encoder button, both of touch and coder button can operate light and setting.

Display & operation just like 'Android operation system', touch the item will set or modify setting

Note: Prevent damage the touch or TFT displayer, Can not use sharp objects chick displayer.

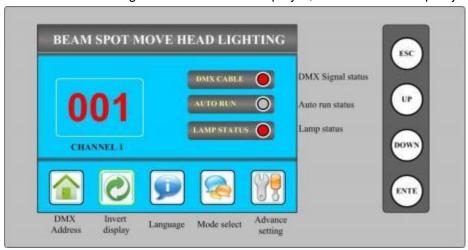


Figure 1 Panel diagram

1. Operation

1. Operate light with touch or encoder button

- The left area is TFT Displayer and touch, chick item or value with finger will to complete
 operation of set light setting(parameters) or view light state.
- The area on the right hand side is rotary encoder with button, As auxiliary input interface, if disable touch function,, the encoder can been choose to set or view the item, and then press the encoder button to confirm the selection, rotary encoder again set the parameter value, finally, Press encoder button one again to save value or setting.

2. Parameter value setting

When the selected item is value need to been modified, the dialog shown in Figure 2 will popup.



Figure 2 Dialog of value setting

- **Modify value:** Can quickly modify value via pull the slider to the desired position, or click the button of 'up' or 'down' whit finger on the right side to set the exact desired value, another way is roll encoder on the right hand side of panel.
- **Apply value:** When Value had been modified, Then press the bottom of 'apply' in the left corner to apply to the light, but hav't saved;
- Save Value: Any time, click on the lower right corner of the "OK" button, the setting will been saved into internal memory.

3. Boolean parameter setting

- when the selected parameters is a Boolean value (such as ON or OFF), can directly modify setting by chick corresponding item, the setting will been saved right now.
- When the parameter is a key item, chick corresponding item, a dialog shown in Figure 3 will been popup ask for the confirm. Chick 'sure' to confirm.

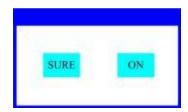


Figure 3 Dialog of confirm

4. Sub Menu (Parameter)

Chick item of main menu, enter corresponding sub menu, shown in Figure 4, total 6 sub menu, includes class of parameter and status:

- ADDRESS: Set light DMX address.
- WORKMOD: Set light work mode, master or slave mode when in auto run mode.
- DISPLAY: Set display parameter, eg. select language.
- TEST: Used for test light, modify DMX channel data to test function, the corresponding function of reference channel function table.
- ADVANCE: Set light running parameter.
- STATUS: view light current status.



Figure 4 Parameter menu

2. Operation and parameter instruction

Via following operation, enter sub menu(parameter menu) shown in Figure 4

- In main menu, chick 1/6 function button into corresponding parameter menu.
- In sub menu(page), chick main item on the left side of displayer, can shift to corresponding sub menu(page) quickly.

1. Set DMX Address

Click and select the "ADDR", can enter the page of DMX address setting, range from 1 to 512, the address code shouldn't is not greater than (512- channels quantity), otherwise the light will not been controlled. Following is the operation:

Enter the page of DMX address, as shown in Figure 5,click the blank area in right side of display will pop-up diglog as in Fig. 4, modify value, then click 'ENTER' to confirm and save DMX address code.

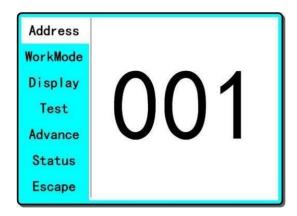


Figure 5 page of DMX Address

2. Set Light work mode

Enter the page of 'WORK MOD' as shown in Figure 6and modify setting. Can set light work mode, control lamp and DMX channel mode..

Light includes 3 work mode: DMX MODE, AUTO RUN and SOUND MODE, Parameter definition as following:

- DMX Mode: Under this mode, the light receive data from the DMX controller and move.
- AUTO RUN: Under this mode, light will run with inside code(data), ignore data from DMX controller.
- **SOUND Ctrl**: Under this mode, light ignore data from DMX controller., When there is a strong sound in stage, the light will run a scene, otherwise it will keep the last scene.
- M/S Choose: 'M/S Choose' is available when light just in 'AUTO RUN' or 'SOUND Ctrl' mode. If this item is set as 'OFF', the light don't send data to other light via DMX Cable. When 'ON', the data will send to other slave light immediately.
- Lamp control: Turn on lamp when this item is set 'ON', otherwise, turn off lamp. The gap between operation is limited to 30 second.
- Channel mode: Light support 2 DMX Channel mode: sample or extend.



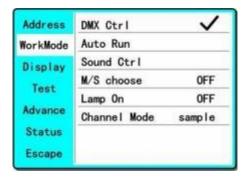


Figure 6 page of work mode

3. Set display

Light support 2 language, rotation display, Enter page as shown in Figure7to set parameter following:

- Language: Select display as simplified Chinese or English.
- Screen Saver: when panel is idle(these is no operation in 10 second), displayer will enter saver status. When set as 'mode 1', saver status is close display, as 'mode 2' saver status will display DMX address code(DMX MODE) or display LOGO(AUTO RUN or SOUND CTRL). As 'OFF', keep light up displayer and show main menu.
- Screen Rotation: rotate displayer.
- Touch enable: Disable or enable touch function, when disable, use encoder to operate light and set parameter.
- Touch adjust: adjust touch function, normally, not enter this item.

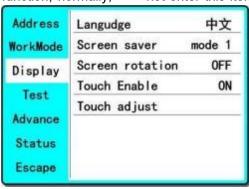


Figure7 page of display

4. Test light

Enter the page as shown in Figure 8, Light will into test mode, in this mode, the light does not receive the data for DMX controller:

- PAN: range for 0 to 255;
- TILT: range for 0 to 255;
- FOCUS: range for 0 to 255;
- COLOR: range for 0 to 255;
- GOBO: range for 0 to 255;
- PRISM: range for 0 to 255;
- FROST: range for 0 to 255;;
- STROBE: range for 0 to 255;

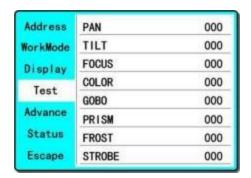


Figure 8 page of Test

5. Set light run parameter

Enter the page as shown in Figure 8, set the parameter of light:

- Pan Invert: Reverse PAN move.
- Tilt Invert: Reverse TILT mover.
- Rectify enable: set as 'OFF', PAN or TILT will disable position rectify function. As 'ON', when PAN or TILT lose steps, light will rectify auto.
- Pan Offset: Set PAN original position.
- Tilt Offset: Set TILT original position.
- Lamp up when: Select lamp on mode, includes 3 mode: power on, after reset done and manual;
- Factory setting: restore all parameter to factory setting.

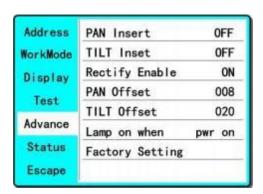


Figure 9 page of run parameter

6. View status

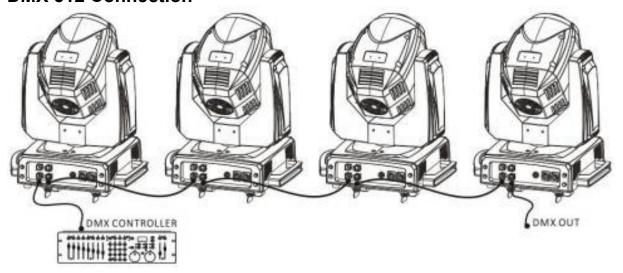
Enter the page as shown in Figure 10:

- View light current status, version;
- DMXClr: Click to clear all DMX data to '0'.
- SysRst: Click to reset light.



Figure 10 page of statuse

How To Control The Unit DMX 512 Connection



| | COMMON | |
|-----------|-------------------|------------------|
| DMX INPUT | DMX + | DMX OUTPUT |
| 2 | DMX - | 02 |
| | COMMON DMX - | |
| DMX INPUT | DMX + Not Used | O3OOO DMX OUTPUT |
| • | Not Used | |

- 1. At last unit, the DMX cable has to be terminated with a termi nator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) a nd pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-o utput of the last unit.
- 2. Connect the unit together in a 'daisy chain' by XLR plug fro m the output of the unit to the input of the next unit. The cab I e can not branched or split to a 'Y' cable. DMX 512 is a very h igh-speed signal. Inadequate or damaged cables, soldered joi nts or corroded connectors can easily distort the signal and sh ut down the system.
- 3. The DMX output and input connectors are pass-through t o 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: Positi ve signal (+)
- 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positi ve 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 butto n to setup, to go back to the functions without any change press the MENU button again. Press and hold the MENU button a bout one second or wait for about one minute to exit the menu mode.

Please refer to the following diagram to address y our DMX512 channel for the first 4 units:

| Channel Mode | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address |
|--------------|-------------------|-------------------|-------------------|-------------------|
| 16CH | 1 | 16 | 32 | 48 |
| 24CH | 1 | 24 | 48 | 72 |

DMX Mode

16CH/24CH Mode

| MODE/CHS | | | | | |
|----------|-------|-----------|-------|-------------------------------|--|
| STAND | BASIC | FUNCTION | VALUE | SCDESCRIPTIO | |
| 1 | 1 | Pan | 0~255 | Pan movement by 540 | |
| 2 | | Pan Fine | 0~255 | Fine control of pan movement | |
| 3 | 2 | Tilt | 0~255 | Tilt movement by 270 | |
| 4 | | Tilt Fine | 0~255 | Fine control of tilt movement | |
| 5 | 3 | P/T Speed | 0~255 | Fast to slow | |

| | | | 0~89 | none |
|---|---|-----------------------|---------|---|
| | | | 90~99 | Blackout when color wheel moving |
| | | | 100~109 | Blackout when gobos wheel moving |
| | | | 110~119 | Blackout when prisms moving |
| | | | 120~129 | Blackout when color, gobos, prisms moving |
| | | | 130~139 | Lamp on (Over 3 seconds) |
| 6 | 4 | Function 4 Reset Lamp | 140~149 | Reset Pan/Tilt (Over 3 seconds) |
| | 7 | | 150~189 | Reset Effect motor (Over 3 seconds) |
| | | | 200~209 | Reset All (Over 3 seconds) |

| | | | 210~229 | none |
|---|---|-----------------|----------------|--|
| | | | 230~239 | Lamp Off (Over 3 seconds) |
| | | | 240~255 | none |
| | | | Linear color s | elect |
| | | | 0~1 | White (100%~10%) |
| | | | 2~9 | Color 1 (100%~10%) |
| | | | 10~19 | Color 2(100%~10%) |
| | | | 20~28 | Color 3 (100%~10%) |
| | | | 29~37 | Color 4 (100%~10%) |
| 7 | 5 | Color | 38~47 | Color 5 (100%~10%) |
| | | | 48~55 | Color 6 (100%~10%) |
| | | | 56~65 | Color 7 (100%~10%) |
| | | | 66~74 | Color 8 (100%~10%) |
| | | | 75~83 | Color 9 (100%~10%) |
| | | | 84~92 | Color 10 (100%~10%) |
| | | | 93~101 | Color 11 (100%~10%) |
| | | | 101~110 | Color 12 (100%~10%) |
| | | | 110~119 | Color 13 (110%~10%) |
| | | | 119~129 | White |
| | | | 130~134 | Color 1 |
| | | | 135~138 | Color 2 |
| | | | 139~143 | Color 3 |
| | | | 144~147 | Color 4 |
| | | | 148~152 | Color 5 |
| | | | 153~157 | Color 6 |
| | | | 158~161 | Color 7 |
| | | | 162~166 | Color 8 |
| | | | 167~171 | Color 9 |
| | | | 172~176 | Color 10 |
| | | | 177~180 | Color 11 |
| | | | 181~185 | Color 12 |
| | | | 186~189 | Color 13 |
| | | | 190~215 | Forwards rainbow effect from fast to slow |
| | | | 216~217 | Stop, white |
| | | | 218~243 | Backwards rainbow effect from slow to fast |
| | | | 244~255 | Auto color selection from fast to slow |
| 8 | | Color Fine | 0~255 | Fine positioning |
| 9 | 6 | Effect Speed | 0~255 | Speed of Rotating gobo, fast to slow |
| | | | 0~3 | Beam(Hole) |
| | 1 | -1 | 1 | 1 |

| | | | 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 | Gobo 11 |
| | | | 70~75 | Gobo 12 |
| | | | 76~81 | Gobo 13 |
| | | | 82~87 | Gobo 14 |
| | | Static | 88~95 | Gobo 1 Shake (Slow to fast) |
| 10 | 7 | Gobo | 96~103 | Gobo 2 Shake (Slow to fast |
| 10 | 7 | Wheel | 104~111 | Gobo 3 Shake (Slow to fast |
| | | | 112~119 | Gobo 4 Shake (Slow to fast |
| | | | 120~127 | Gobo 5 Shake (Slow to fast |
| | | | 128~135 | Gobo 6 Shake (Slow to fast |
| | | | 136~143 | Gobo 7 Shake (Slow to fast |
| | | | 144~151 | Gobo 8 Shake (Slow to fast |
| | | | 152~159 | Gobo 9 Shake (Slow to fast |
| | | | 160~167 | Gobo 10 Shake (Slow to fast |
| | | | 168~175 | Gobo 11 Shake (Slow to fast |
| | | | 176~183 | Gobo 12 Shake (Slow to fast |
| | | | 184~191 | Gobo 13 Shake (Slow to fast |
| | | | 192~199 | Gobo 14 Shake (Slow to fast |
| | | | 200~201 | Beam/hole |
| | | | 202~221 | Forwards gobo rainbow from slow to fast |
| | | | 222~223 | stop |
| | | | 224~243 | Backwards gobo rainbow from fast to slow |
| | | | 244~255 | Auto gobo selection from fast to slow |
| | | | Rot.gobo Index | |
| | | | 0~4 | White |
| | | | 5~7 | Gobo 1 |
| | | | 8~10 | Gobo 2 |
| 11 | 8 | Rotating | 11~13 | Gobo 3 |
| | | Gobo Wheel | 14~16 | Gobo4 |
| | | | 17~19 20~22 | Gobo 5 |
| | | | 23~25 | Gobo6 Gobo 7 |
| | | | 26~28 | |
| | | | 20~28 29~31 | Gobo 8 Gobo 9 |
| | | | Rot. Gobo rota | |
| | | | 130t. G000 10t | 16 |

| | | | 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 |
| | | | Rot.gobo Ir | |
| | | | 60~67 | Gobo 1 Shake (slow to fast) |
| | | | 68~75 | Gobo 2 Shake (slow to fast) |
| | | | 76~83 | Gobo 3 Shake (slow to fast) |
| | | | 84~91 | Gobo 4 Shake (slow to fast) |
| | | | 92~99 | Gobo 5 Shake (slow to fast) |
| | | | 100~107 | Gobo 6 Shake (slow to fast) |
| | | | 108~115 | Gobo 7 Shake (slow to fast) |
| | | | 116~123 | Gobo 8 Shake (slow to fast) |
| | | | 124~129 | Gobo 9 Shake (slow to fast) |
| | | | Rot. Gobo | rotation |
| | | | 130~137 | Gobo 1 Shake (slow to fast) |
| | | | 138~145 | Gobo 2 Shake (slow to fast) |
| | | | 146~153 | Gobo 3 Shake (slow to fast) |
| | | | 154~161 | Gobo 4 Shake (slow to fast) |
| | | | 162~169 | Gobo 5 Shake (slow to fast) |
| | | | 170~177 | Gobo 6 Shake (slow to fast) |
| | | | 178~185 | Gobo 7 Shake (slow to fast) |
| | | | 186~193 | Gobo 8 Shake (slow to fast) |
| | | | 194~199 | Gobo 9 Shake (slow to fast) |
| | | | 200~201 | White |
| | | | 202~221 | Forwards gobo rainbow from slow to fast |
| | | | 222~223 | stop |
| | | | 224~243 | Backwards gobo rainbow from fast to slow |
| | | | 244~255 | Auto goo selection from fast to slow |
| 40 | | | Gobo index | (|
| 12 | 9 | Rot. Gobo | 0~255 | 0~200 |
| | | | Gobo rotati | on |
| | | | 0 | No rotation |
| | | | 1~127 | Forwards gobo rotation from fast to slow |
| | | | 128~129 | No rotation |
| 1 | | I | | |

| Rot.gobo indexing androtation-fine | | | | 130~255 | Backwards gobo rotation from slow to fast |
|--|----|----|--------------|---------------|--|
| 14 10 Prism 16-127 | | | | | Rot.gobo indexing androtation-fine |
| 14 10 Prism | 13 | 13 | | 0~255 | Fine indexing (rotation) |
| 14 10 Prism | | | | | Open position (hole) |
| 14 10 Prism | | | | 20~49 | 6-facet linear rotating prism -indexing |
| 106-127 8-facet circular rotating prism-rotation | | | | 50~75 | 6-facet linear rotating prism- rotation |
| Prism Prism Prism Prism Prism Prism Prism Prism Prism Prism Prism | | | | 76~105 | 8-facet circular rotating prism- Indexing |
| 128~135 Macro 1 136~143 Macro 2 144~151 Macro 3 152~159 Macro 4 160~167 Macro 5 168~175 Macro 6 176~183 Macro 7 184~191 Macro 8 192~199 Macro 9 200~207 Macro 10 208~215 Macro 11 216~223 Macro 11 216~223 Macro 12 224~231 Macro 13 232~239 Macro 14 240~247 Macro 15 248~255 Macro 16 Rot.Prism Index 0~255 | | | | 106~127 | 8-facet circular rotating prism-rotation |
| 14 | | | | Prism/Gobo r | macro |
| 14 | | | | 128~135 | Macro 1 |
| 144~151 Macro 3 152~159 Macro 4 160~167 Macro 5 168~175 Macro 6 176~183 Macro 7 184~191 Macro 8 192~199 Macro 10 208~215 Macro 11 216~223 Macro 12 224~231 Macro 13 232~239 Macro 14 240~247 Macro 15 248~255 Macro 16 Rot.Prism Index 0 | 14 | 10 | | 136~143 | Macro 2 |
| 160~167 Macro 5 168~175 Macro 6 176~183 Macro 7 184~191 Macro 8 192~199 Macro 9 200~207 Macro 10 208~215 Macro 12 224~231 Macro 13 232~239 Macro 14 240~247 Macro 15 248~255 Macro 16 Rot.Prism Index 0 No rotation 1~127 128~129 No rotation 1 Rot.Prism 1 Rot.Prism 0 Open 1~179 Frost from 0% to 100% 189~189 100% frost | 14 | 10 | Prism | 144~151 | Macro 3 |
| 168~175 | | | | 152~159 | Macro 4 |
| 176~183 Macro 7 184~191 Macro 8 192~199 Macro 9 200~207 Macro 10 208~215 Macro 11 216~223 Macro 12 224~231 Macro 13 232~239 Macro 14 240~247 Macro 15 248~255 Macro 16 Rot.Prism Index 0 No rotation 1~127 128~129 No rotation 130~255 0 Open 1~179 Frost from 0% to 100% 189~189 100% frost | | | | 160~167 | Macro 5 |
| 184~191 Macro 8 192~199 Macro 9 200~207 Macro 10 208~215 Macro 11 216~223 Macro 12 224~231 Macro 13 232~239 Macro 14 240~247 Macro 15 248~255 Macro 16 Rot.Prism Index 0~255 0~200 degree Rot.Prism rotation 0 No rotation 1~127 Forwards prism rotation from fast to slow 130~255 0 Open 1~179 Frost from 0% to 100% 189~189 100% frost | | | | 168~175 | Macro 6 |
| 192-199 Macro 9 | | | | 176~183 | Macro 7 |
| 200~207 Macro 10 | | | | 184~191 | Macro 8 |
| 208~215 Macro 11 | | | | 192~199 | Macro 9 |
| 216~223 Macro 12 | | | | 200~207 | Macro 10 |
| 224~231 Macro 13 | | | | 208~215 | Macro 11 |
| 232~239 Macro 14 | | | | 216~223 | Macro 12 |
| 240~247 Macro 15 | | | | 224~231 | Macro 13 |
| 248~255 Macro 16 | | | | 232~239 | Macro 14 |
| Rot.Prism Index | | | | 240~247 | Macro 15 |
| 11 Rot.Prism | | | | 248~255 | Macro 16 |
| Rot.Prism Rot.Prism Rot.Prism Rot.Prism Rot.Prism Table Rot.Prism Rot.Prism Rot.Prism Rot.Prism Table Rot.Prism Rot.Prism Rot.Prism Rot.Prism Rot.Prism Rot.Prism Forwards Prism Rot.Prism Rot.Prism Forwards Prism Rot.Prism | | | | Rot.Prism Inc | dex |
| 11 Rot.Prism 1~127 Forwards prism rotation from fast to slow 1~127 128~129 No rotation Backwards prism rotation from slow to fast 0 Open 1~179 Frost from 0% to 100% 189~189 100% frost 100% frost 1 1 1 1 1 1 1 1 1 | | | | 0~255 | 0~200 degree |
| 15 11 Rot.Prism 1~127 Forwards prism rotation from fast to slow 128~129 No rotation Backwards prism rotation from slow to fast 0 Open 1~179 Frost from 0% to 100% 189~189 100% frost 100% 100 | | | | Rot.Prism rot | ation |
| 15 11 Rot.Prism 1~127 128~129 No rotation Backwards prism rotation from slow to fast 0 Open 1~179 Frost from 0% to 100% 189~189 100% frost | | | | 0 | |
| 130~255 Backwards prism rotation from slow to fast 0 | 15 | 11 | 11 Rot.Prism | 1~127 | Forwards prism rotation from fast to slow |
| 130~255 0 | | | | 128~129 | No rotation |
| 1~179 Frost from 0% to 100% 189~189 100% frost | | | | 130~255 | Backwards prism rotation from slow to fast |
| 189~189 100% frost | | | | 0 | Open |
| 100 100 | | | | 1~179 | Frost from 0% to 100% |
| 16 12 Event 100 211 Pulse election from election fact | | | | 189~189 | 100% frost |
| 10 12 Frost 190~211 Pulse closing from slow to fast | 16 | 12 | Frost | 190~211 | Pulse closing from slow to fast |
| 212~233 Pulse opening from slow to fast | | | | 212~233 | Pulse opening from slow to fast |

| | | | 234~255 | Rambing from fast to slow |
|----|----|------------|---------|--|
| 17 | 13 | Zoom | 0~255 | Zoom from max. to min.beam angle |
| 18 | | Zoom Fine | 0~255 | Fine Zoom |
| 19 | 14 | Focus | 0~255 | Continuous adjustment from far to near |
| 20 | | Focus Fine | 0~255 | Fine Focus |
| 21 | | | 0~255 | Resered |
| 22 | 15 | Strobe | 0~31 | Shutter closed (Lamp power |
| | | | | reduced to 230W) |
| | | | 32~63 | Shutter open, Full lamp power |
| | | | 64~95 | Strobe-effect from slow to fast |
| | | | 96~127 | Shutter open |
| | | | 128~159 | Opening pulse in sequences from slow to fast |
| | | | 160~191 | Shutter open |
| | | | 192~223 | Random strobe-effect from slow to fast |
| | | | 224~255 | Shutter open, full lamp power |
| 23 | 16 | Dimmer | 0~255 | Dimmer intensity from 0% to 100% |
| 24 | | | | Reserved |

Troubleshooting

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

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, cab I es to see if link properly.
- 2. If the DMX LED is on and no response to the channel, chec k the address settings and DMX polarity.
- 3.If you have intermittent DMX signal problems, check the pin s 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 v

oltage cables that may cause damage or interference to DMX interface circuit.

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

- You may have a break in the DMX cabling. Check the LED f
- or 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 microp hone
- E. One of the channels is not working well
- 1. The stepper motor might be damaged or the cable connecte d 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 b e carried out periodically to optimizelight output. Cleaning freq uency depends on the environment in which the fixture operat es: damp,

smoky or particularly dirty surrounding can cause greater accu mulation 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.

