NOUVOLED

GEMINI1925W

19x25W ZOOM LED Moving Head Lighting

User Manual

TABLE OF CONTENTS

1. Safety Instructions

⚠️ **WARNING**

> **Please read the instruction carefully which includes important information about the installation, usage and maintenance.**

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

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

- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

- The unit is for indoor use only. Use only in a dry location.

- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

- Disconnect main power before replacement or servicing.

- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

- Use safety cables when fixing this unit. DO NOT handle the unit by its head only, always carry by its base.

- Maximum ambient temperature is Ta: 40 degrees C. DO NOT operate it where the temperature is higher than this.

- Unit surface temperature may reach up to 75 degrees C. DO NOT touch the housing with bare-hands during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

- DO NOT touch any wire during operation as high voltage may cause electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

- The housing and lenses must be replaced if they are visibly damaged.

Caution:

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

Installation:

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

The equipment must be installed by professionals. 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. Technical Specifications

◇   Extremely small, fast and powerful LED moving beam.

◇   DMX Channels: 15/27 channels mode

◇   Outstanding color macro effect

◇   Variable strobe effects

◇   Blue white LCD display for easy navigation

◇   Perfect for stage, theatre, TV studio, rental and discotheques

◊ **Input Voltage:**   AC 100 ~ 240V, 50/60Hz

◊ **Power Consumption:**   500W

☐ **Power Cable Daisy Chain:**
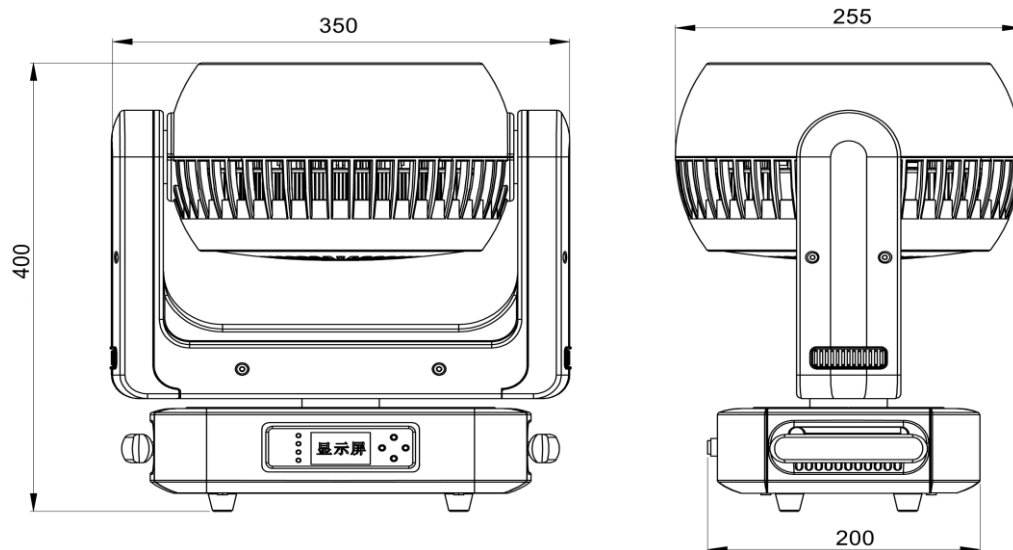
☐ 9 Fixture Max. (230V, 50Hz)

☐ 5 Fixture Max. (120V, 60Hz)

◊ **LED Source:**   19 × 25W Prolight LED
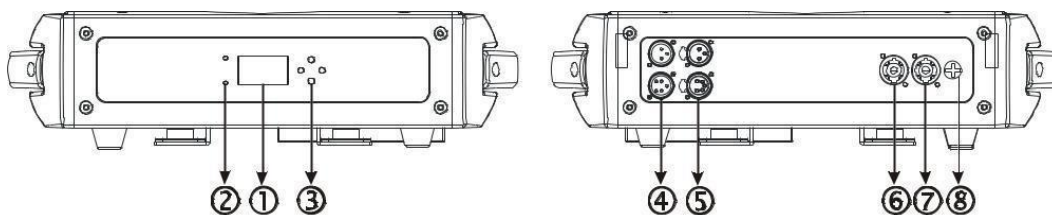◊ **Beam Angel:**   10° ~ 60°
◊ **Weight:**   9.5Kgs
◊ **Dimension:**   350 × 200 × 400mm

3. How To Set The Unit

3.1 Control panel

1. Function Display:

   Shows the various menus and the selected functions

2. LED:

POWER	ON	Power On

DMX	ON	DMX input present

3. 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

4. DMX IN:

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

5. DMX OUT:

DMX512 link, use 3/5-pin XLR cable to link the next unit and output DMX signal

6. MAINS IN:

PowerCon connection from main power supply

7. MAIS OUT:

PowerCon loop connection for main power supply to the next unit

8.   Fuse (T 10A)**:**

Protects the unit from over-voltage or short circuit

3.2 Main Function

To select any of the given functions, press the **MENU** button until the

required function is showing on the display. Select the function by pressing

the **ENTER** button and the display will blink. Use the

DOWN/UP 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:

MENU

- **Address**
  - DMX Address
  - DMX Mode
    - Model 1 15
    - Model 2 27
  - DMX Value

- **Personality**
  - Pan Inverse
    - No
    - Yes
  - Tilt Inverse
    - No
    - Yes
  - P/T Feedback
    - No
    - Yes
  - Bl.o. P/T Moving
    - No
    - Yes
  - White Balance
    - Red
    - Green
    - Blue
    - Auto
  - Dimmer Curve
    - Linear
    - Square law
    - Inverse Squ.
    - S-curve
  - Fan Speed
    - Auto
    - Low
  - Factory Default
    - No
    - Yes
  - Offset
    - Pan 45
    - Tilt 0
    - Zoom 0

- **Display**
  - Display Inverse
    - No
    - Yes
  - Backlight Adjust 10
  - Temperature Unit
    - ℃
    - ℉
  - Backlight off
    - No
    - Yes

- **Control**
  - Auto Control
  - Manual Control

- **Reset**
  - All
    - No
    - Yes
  - Pan / Tilt
  - Zoom

- **Information**
  - Fixture Hours
  - Version

DMX Functions

Enter MENU mode, select **DMX Functions**, press the **ENTER** button to confirm, use the

UP/DOWN button to select **DMX Address**, **DMX Channel Mode** or **View DMX Value**.

DMX Address

To select **DMX Address**, press the **ENTER** button to show the **DMX ADDRESS** on the display. Use the **UP/DOWN** button to adjust the address from **001** to **512**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

DMX Channel Mode

To select **DMX Channel Mode**, press the **ENTER** button to show the **DMX CHANNEL MODE** on the display. Use the **UP/DOWN** button to select **Mode1 (14)** or **Mode2 (26)**, and press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to show the **VIEW DMX VALUE** on the display. Use the **UP/DOWN** button to view the DMX channel values. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Setting

Enter MENU mode, select **Fixture Setting**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Inverse, Tile Inverse, P/T Feedback**, **BL.O. P/T Moving, White Balance, Cooling Mode**, **Dimmer Curve** or **Dimmer Speed**.

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to show the P**AN INVERSE** on the display. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (pan inverse), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to show the **TILT INVERSE** on the display. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (tilt inverse), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to show the **PAN/TILT FEEDBACK** on the display. Use the **UP/DOWN** button to select **No** (Pan or tilt's position will not feedback while out of step) or **Yes** (Feedback while pan/tilt out of step), press the **ENTER** button to setup. Press the
MENU button back to the last menu or let the unit idle one minute to exit menu mode.

BL.O. P/T Moving

To select **BL.O. P/T Moving**, press the **ENTER** button to show the **BLACKOUT WHILE PAN/TILT MOVING** on the display, use the **UP/DOWN** button to select **No** (normal while pan/tilt moving) or
Yes (blackout while pan/tilt moving), press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

White Balance

To select **White Balance**, press the **ENTER** button to show the **WHITE BALANCE** on the display, use the **UP/DOWN** button to select **Red**, **Green** or **Blue**. Once selected, press the **ENTER** button to confirm, and use the **UP/DOWN** button to adjust the value from **125** to **255**, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.
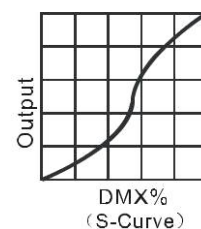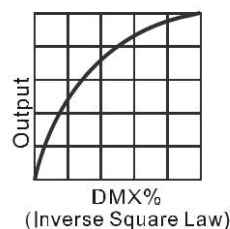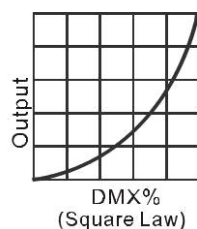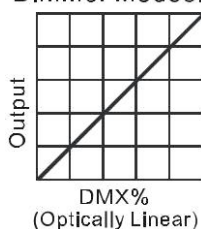
Cooling Mode

To select **Cooling Mode**, press the **ENTER** button to show the **COOLING MODE** on the display. Use the **UP/DOWN** button to select **Auto** (Normal) or **Low** (Low speed). Once selected, press the

ENTER button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to show the **DIMMER CURVE** on the display, use the **UP/DOWN** button to select **Linear**, **Square Law**, **Inverse Squ.** or **S-curve**. Once selected, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Dimmer Modes:

Output — DMX% (Optically Linear)　Output — DMX% (Square Law)　Output — DMX% (Inverse Square Law)　Output — DMX% (S-Curve)

Linear: The increase in light intensity appears to be linear as DMX value is increased.
Square Law: Light intensity control is finer at low levels and coarser at high levels.
Inverse Square Law: Light intensity control is coarser at low levels and finger at high levels.
S-cure: Light intensity control is finger at low levels and high levels and coarser at medium levels.

Dimmer Speed

To select **Dimmer Speed**, press the **ENTER** button to show the **DIMMER SPEED** on the display. Use the **UP/DOWN** button to select **Fast** or **Smooth**. Once selected, press the **ENTER** button to setup. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Display Setting

Enter **MENU** mode, select **Display Setting**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Inverse, Backlight Auto Off, Backlight Intensity, Temperature unit** or **Display Warning.**

Display Inverse

To select **Display Inverse**, press the **ENTER** button to show the **DISPLAY INVERSE** on the display. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (display inverse). Once selected, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Backlight Auto Off

To select **Backlight Auto Off**, press the **ENTER** button to show the **BACKLIGHT AUTO OFF** on the display. Use the **UP/DOWN** button to select **No** (display always on) or **Yes** (display goes off one minute after exiting menu mode). Once selected, press the **ENTER** button to confirm and store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Backlight Intensity

To select **Backlight Intensity**, press the **ENTER** button to show the **BACKLIGHT INTENSITY** on the display. Use the **UP/DOWN** button to adjust the intensity from **1** (dark) to **10** (bright). Once selected, press the **ENTER** button to setup and store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Temperature Unit

To Select **Temperature Unit**, press the **ENTER** button to show the **TEMPERATURE UNIT** on the display. Use the **UP/DOWN** button to select ℃ or ℉, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Display Warning

To select **Display Warning**, press the **ENTER** button to show the **DISPLAY WARNING** on the display. Use the **UP/DOWN** button to select **No** (Normal) or **Yes** (display will show the error warning when the unit went wrong), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Test

Enter **MENU** mode, select **Fixture Test**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

To select **Auto Test**, press the **ENTER** button to show the **AUTO TEST** on the display. Press the **ENTER** button, the unit will run built-in programs to automatically test pan, tilt and zoom. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

To select **Manual Test**, press the **ENTER** button to show the **MANUAL TEST** on the display. Press the **ENTER** button, and then use the **UP/DOWN** button to select channel, and adjust the channel value. Once selected, press the **ENTER** button to setup, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode let the unit idle one minute.

(All channels value will become 0 after exiting **Manual Test** menu)

Fixture Information

Enter MENU mode, select **Fixture Information**, press the ENTER button to confirm, use the UP/DOWN button to select **Fixture use time, Lamp On time** or **Firmware Version.**

Fixture use time

To select **Fixture use time**, press the **ENTER** button to show the **FIXTURE USE TIME** on the display. Press the **ENTER** button, the fixture working hours will show on the display. Press the

MENU button to exit.

Lamp On time

To select **Lamp On time**, press the **ENTER** button to show the **LAMP ON TIME** on the display. Press the **ENTER** button to confirm, then use the **UP/DOWN** button to select **Exit** or **Reset Time**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or exit menu mode let the unit idle one minute.

Firmware Version

To select **Firmware Version**, press the **ENTER** button to show the **FIRMWARE VERSION** on the display. Press the **ENTER** button and the fixture software version will show on the display. Press the **MENU** button to exit.

Reset Functions

Enter MENU mode, select **Reset Function**, press the ENTER button to confirm, use the **UP/DOWN** button to select **Pan/Tilt, Zoom** or **All.**

Pan/Tilt

To Select **Pan/Tilt**, press the **ENTER** button to show the **PAN/TILT** on the display. Use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset pan and tilt to their home positions) or **No**, press the **ENTER** button to store. Press the **MENU** button to exit menu mode.

Zoom

To select **Zoom**, press the **ENTER** button to show the **ZOOM** on the display. Use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset zoom to its home positions) or **No**, press the **ENTER** button to store. Press the **MENU** button to exit menu mode.

All

To select **All,** press the **ENTER** button to show the **ALL** on the display. Use the

UP/DOWN button to select **Yes** (the unit will run built-in program to reset all motors

to their home positions) or **No**, press **ENTER** button to store. Press **MENU** button to

exit menu mode.

Special Functions

Enter MENU mode, select **Special Functions**, press the **ENTER** button to

confirm, use the **UP/DOWN** button to select **Fixture Maintenance** or **Factory**

Setting.

Fixture Maintenance

To select **Fixture Maintenance**, press the **ENTER** button to show the **FIXTURE**

MAINTENANCE on the display. Use the UP/DOWN button to select **Interval** or

Remain Time.

Interval

To select **Interval,** press the **ENTER** button to confirm, the interval time will

be shown on the display. Press the **MENU** button to exit.

Remain Time

To select **Remain Time,** press the **ENTER** button to confirm, the remaining time

will be shown on the display. Press the **ENTER** button to confirm, use the

UP/DOWN button to select **Exit** or

Reset time, press the **MENU** button to exit.

Factory Setting

To select **Factory Setting**, press the ENTER button to show the FACTORY

SETTING on the display. Press the **ENTER** button to confirm, use the **UP/DOWN**

button to select **No** or **Yes** (the fixture will reset to factory settings and exit menu

mode).

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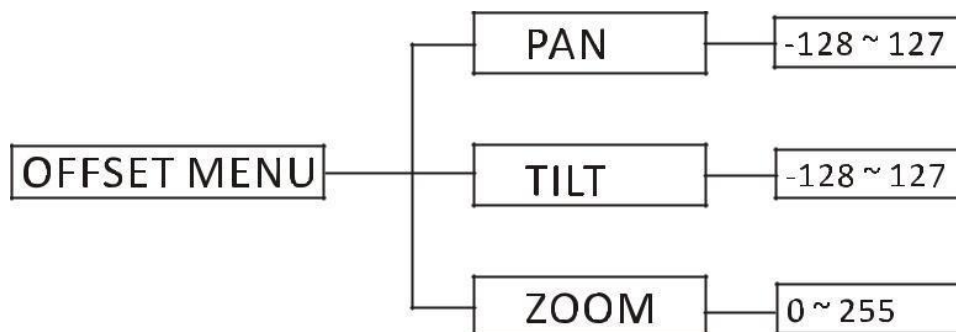
In the main functions, hold the **ENTER** button for at least 3 seconds into offset mode, use the **DOWN/UP** button up to select **Pan** Offset, **Tilt** Offset or **Zoom** Offset, and press the **ENTER** button to confirm. Use the **DOWN/UP** button to adjust the home position of the Pan, Tilt or Zoom,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

4. Control By Universal DMX Controller
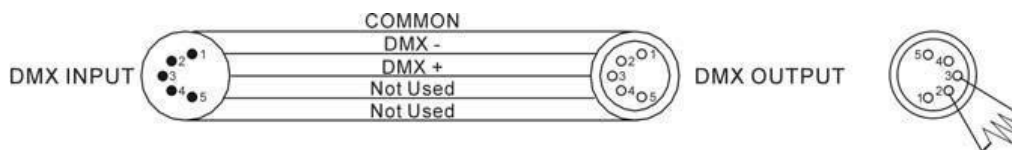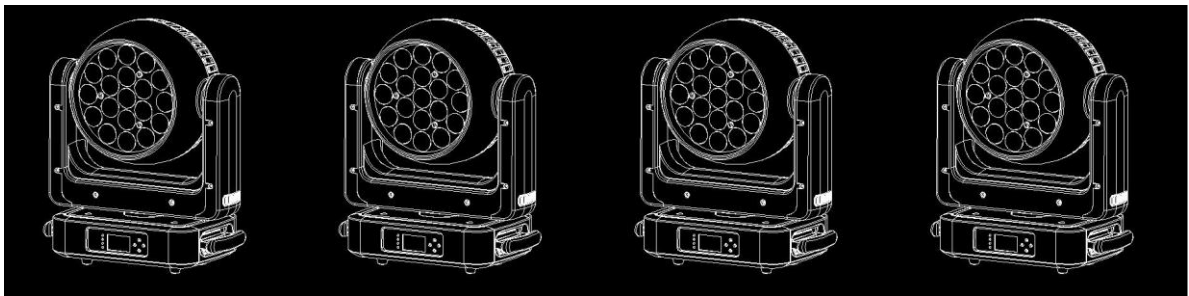
1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.

2. The last units DMX cable has to be terminated with a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) of a 3-pin XLR-plug and plug it in the DMX-output of the last unit.

3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable cannot branch 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.

4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.

5. Each fixture unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

6. The end of the DMX 512 system should be terminated to reduce signal errors.

7. 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/Pin 5: Not used.

4.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the **MENU** button to enter menu mode, select *DMX Functions*, press the **ENTER** button to confirm, use the **UP/DOWN** button to select *DMX Address*, press the **ENTER** button to confirm, the present address will blink on the display, use the **UP**/**DOWN** button to adjust the address from 001 to 512, and press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 7 seconds to exit menu mode.

Please refer to the following diagram to set the DMX address for the first 4 units：

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
15 channels	1	15	29	43
27 channels	1	27	53	79

4.3 DMX 512 Configuration

15 Channels Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN**
2	000-255	**PAN FINE**
3	000-255	**TILT**
4	000-255	**TILT FINE**
5	000-255	**PAN/TILT SPEED** fast → slow
6	000-255	**ZOOM** wide → narrow
7		**SPECIAL FUNCTIONS**
	000-009	No function
	010-014	Reset
	015-255	No function
8		**DIMMER**
	000-255	0%~100%
9		**SHUTTER**
	000-019	Blackout
	020-024	Open
	025-064	Strobe 1: fast →slow
	065-069	Open
	070-084	Strobe 2: opening pulse, fast →slow
	085-089	Open
	090-104	Strobe 3: closing pulse, fast →slow
	105-109	Open
	110-124	Strobe 4: random strobe, fast →slow
	125-129	Open
	130-144	Strobe 5: random opening pulse, fast →slow
	145-149	Open
	150-164	Strobe 6: random closing pulse, fast →slow
	165-169	Open
	170-184	Strobe 7: burst pulse, fast →slow
	185-189	Open
	190-204	Strobe 8: random burst pulse, fast →slow
	205-209	Open
	210-224	Strobe 9: sine wave, fast →slow
	225-229	Open
	230-244	Strobe 10: burst, fast →slow
	245-255	Open
10	000-255	**RED** (0% → 100%)
11	000-255	**GREEN** (0% → 100%)

12	000-255	**BLUE(0%-100%)**
13	000-255	**WHITE(0%-100%)**
	000-009	Normal(No Light)
		COLOR MARCO
	010-015	LEE 790 — Moroccan Pink
	016-020	LEE 157 — Pink
	021-025	LEE 332 — Special Rose Pink
	026-030	LEE 328 — Follies Pink
	031-035	LEE 345 — Fuchsia Pink
	036-040	LEE 194 — Surprise Pink
	041-045	LEE 181 — Congo Blue
	046-050	LEE 071 —Tokyo Blue
	051-056	LEE 120 — Deep Blue
	057-061	LEE 079 —Just Blue
	062-066	LEE 132 — Medium Blue
	067-071	LEE 200 — Double CT Blue
	072-077	LEE 161 — State Blue
	078-081	LEE 201 — Full CT Blue
	082-086	LEE 202 — Half CT Blue
	087-091	LEE 117 — Steel Blue
	092-097	LEE 353 — Lighter Blue
	098-102	LEE 118 — Light Blue
	103-107	LEE 116 — Medium Blue Green
	108-112	LEE 124 — Dark Green
	113-117	LEE 139 — Primary Green
	118-122	LEE 089 — Moss Green
	123-127	LEE 122 — Fern Green
	128-132	LEE 738 —JAS Green
	133-138	LEE 088 — Lime Green
	139-143	LEE 100 — Spring Yellow
	144-148	LEE 104 — Deep Amber
	149-153	LEE 179 — Chrome Orange
	154-158	LEE 105 — Orange
	159-163	LEE 021 — Gold Amber
	164-168	LEE 778 — Millennium Gold
	169-173	LEE 135 — Deep Gold Amber
	174-179	LEE 164 — Flame Red
	180-255	Color Auto Run

	235-239	Fast
	240-244	Medium
	245-249	Slow
	250-255	Open
15		**CTO**

27 Channels Mode:

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN**
2	000-255	**PAN FINE**
3	000-255	**TILT**
4	000-255	**TILT FINE**
5		**PAN/TILT SPEED**
	000-255	fast → slow
6		**ZOOM**
	000-255	wide → narrow
7		**SPECIAL FUNCTIONS**
	000-009	No function
	010-014	Reset
	015-255	No function
8		**DIMMER**
	000-255	0%~100%
9		**SHUTTER**
	000-019	Blackout
	020-024	Open
	025-064	Strobe 1: fast →slow
	065-069	Open
	070-084	Strobe 2: opening pulse, fast →slow
	085-089	Open
	090-104	Strobe 3: closing pulse, fast →slow
	105-109	Open
	110-124	Strobe 4: random strobe, fast →slow
	125-129	Open
	130-144	Strobe 5: random opening pulse, fast →slow
	145-149	Open
	150-164	Strobe 6: random closing pulse, fast →slow
	165-169	Open
	170-184	Strobe 7: burst pulse, fast →slow
	185-189	Open

	190-204	Strobe 8: random burst pulse, fast →slow
	205-209	Open
	210-224	Strobe 9: sine wave, fast →slow
	225-229	Open
	230-244	Strobe 10: burst, fast →slow
	245-255	Open
10	000-255	**RING 1 RED** (0% → 100%)
11	000-255	**RING 1 GREEN** (0% → 100%)
12	000-255	**RING 1 BLUE** (0% → 100%)
13	000-255	**RING 1 WHITE** (0% → 100%)
14		**RING 1 COLOR PRESET**
	000-009	Open
	010-017	Color1
	018-024	Color2
	025-032	Color3
	033-039	Color4
	040-047	Color5
	048-054	Color6
	055-061	Color7
	062-069	Color8
	070-076	Color9
	077-084	Color10
	085-091	Color11
	092-099	Color12
	100-106	Color13
	107-113	Color14
	114-121	Color15
	122-128	Color16
	129-136	Color17
	137-143	Color18
	144-151	Color19
	152-158	Color20
	159-165	Color21
	166-173	Color22
	174-180	Color23
	181-188	Color24
	189-195	Color25
	196-203	Color26
	204-210	Color27
	211-217	Color28
	218-225	Color29
	226-232	2700K
	233-240	3200K
Color Temperature	241-247	4200K
	248-255	5600K

15	000-255	**RING 2 RED** (0% → 100%)
16	000-255	**RING 2 GREEN** (0% → 100%)
17	000-255	**RING 2 BLUE** (0% → 100%)
18	000-255	**RING 2 WHITE** (0% → 100%)
19		**RING 2 COLOR PRESET**
	000-255	(The same as CH14：RING 1 COLOR PRESET)
20	000-255	**RING 3 RED** (0% → 100%)
21	000-255	**RING 3 GREEN** (0% → 100%)
22	000-255	**RING 3 BLUE** (0% → 100%)
23	000-255	**RING 3 WHITE** (0% → 100%)
24		**RING 3 COLOR PRESET**
	000-255	(The same as CH14：RING 1 COLOR PRESET)
25		**RING COLOR MACRO**
	000-007	Blackout
	008-022	Macro1
	023-037	Macro2
	038-052	Macro3
	053-067	Macro4
	068-082	Macro5
	083-097	Macro6
	098-112	Macro7
	113-127	Macro8
	128-142	Macro9
	143-157	Macro10
	158-172	Macro11
	173-187	Macro12
	188-202	Macro13
	203-217	Macro14
	218-232	Macro15
	233-247	Macro16
	248-255	Mocro17
26		**COLOR MACRO SPEED**
	000-255	Slow → fast
27		**CTO**

5. Fixture Cleaning

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 and 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.   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 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.