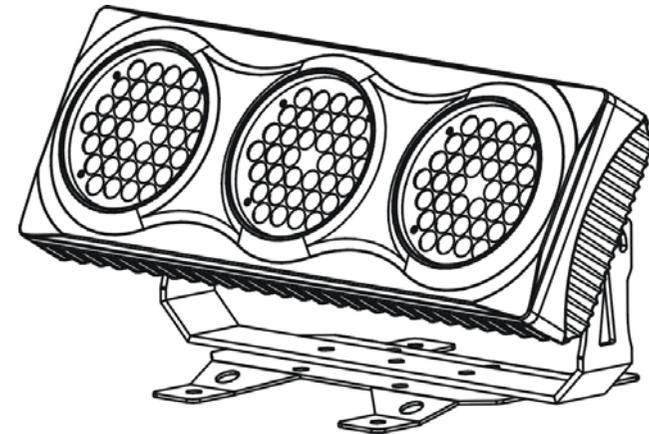


NO.011



Building Wash

BW-108



[Http://www.visio-led.com](http://www.visio-led.com)

Specifications are subject to change without prior notice.

User Guide

Advanced LED Technology

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EC Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-2: 1997 A1: 2001, EN61000-4-2: 1995; EN61000-4-3: 2002;

EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6: 1996, EN61000-4-11: 1994.

&

Harmonized Standard

EN60598-1: 2000+ALL: 2000+A12: 2002
Safety of household and similar electrical appliances
Part 1: General requirements

Accessories:

Signal cable 2pcs

- ☞ 0.36m Male water proof connector + female XLR connector cable x 1pc
- ☞ 0.36m Female water proof connector + male XLR connector cable x 1pc

Power cable 1pc

- ☞ 1.5m Water proof connector + plug x 1pc

Option (sold separately):

- ☞ 10m Power cable (water proof connector male/female)
- ☞ Signal cables for linking fixtures, available length: 1m (CCT-1), 2m (CCT-2), 5m (CCT-5) or 10m (CCT-10)

1. Safety Instruction



Please read carefully the instruction 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 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.
- Suitable for both indoor & outdoor use.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Disconnect mains power before replacement or servicing.
- Make sure there is no flammable materials close to the unit while operating as it is fire hazard.

- Use safety cable when fixes this unit under ceiling or on the truss.
- Maximum ambient temperature is ta: 40°C. Don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 60°C. Don't touch the housing bare-hand 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 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 might be causing electric shock.

Warning

For power supply, do not connect in series much more than 4 units, use another mains supply for next 4 units.

- Do not open the unit within five minutes after switching off.
- Make sure that the housing is firmly closed and all screws are tightly fastened when operate.

Caution

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repair 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. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 20 times of the unit.

6. 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 output

1. Check the connection of power.
2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

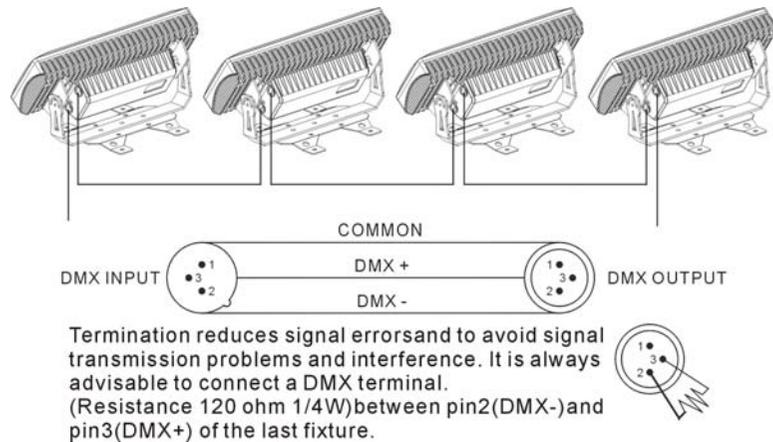
1. Check DMX connectors, cables to see if link properly.
2. Check the address settings.
3. If you have intermittent DMX signal problems, check the pins on connectors of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

7. Fixture Cleaning

The cleaning of and external optical lenses must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause 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 20 days.

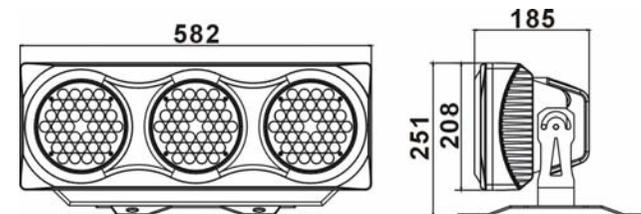
5.4 DMX512 Connection



1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. 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.
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 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.
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 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).
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 4/5: Not used

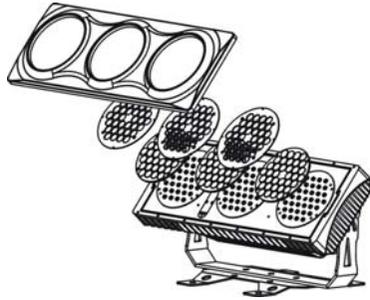
2. Technical Specification

- DMX 12/9/4 channels selectable
- LED display with password protection at the rear panel
- Come with great built-in programs (16 chases) and 3 editable chases
- Using the latest LED technology makes important energy (cost) savings compared to traditional halogen fixtures.
- Completely silent, the projector is cooled by natural air convection without fan
- Thermal sensor in LED PCB to protect LEDs from over heated.
- With waterproof IP66 housing, it perfect to illuminate all kinds buildings like: hotels, shops, discotheques, stage, amusement parks, fairground, museum, etc.
- Voltage:100-240V~50/60Hz
- Power consumption: 150W
- Light source: 108x1W LED
50,000hrs rated
- Beam Angle: as indicated on the product label (15°/25°/45° are available)
- Dimension: 582x185x251 mm
- Weight: 18.4 kgs



3. Change Beam Angle

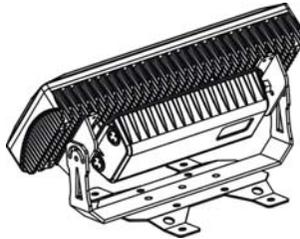
We don't recommend to change the lens of the fixture. However, if you have to change the beam angle of the fixture, you can change lens of the fixture refer to the photo below:



Important: As it is a water-proof fixture, changing lens of this unit should be carried out by qualified technician and make sure everything is intact for water-proof.

4. How To Control The Unit

4.1 Rear Panel



Display-water proof touch screen

Touch screen to choose and show menus

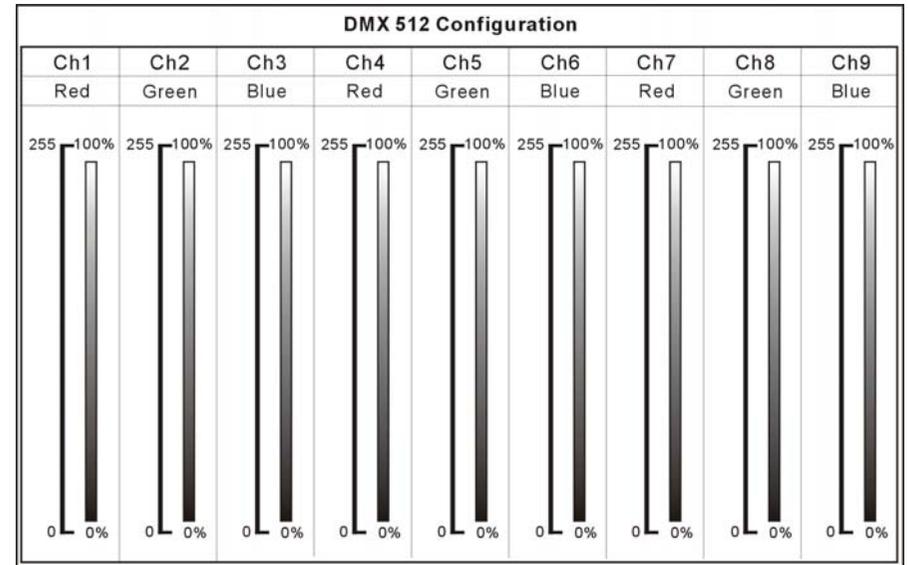
Power

Water proof connectors for power input/output

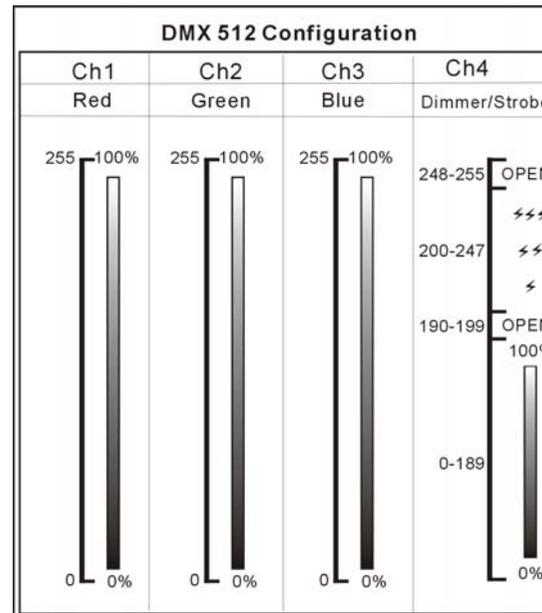
DMX input/output

Water proof connectors for DMX 512 operation, use 3-pin XLR plug cable to link the unit together

9 Channels:



4 Channels:



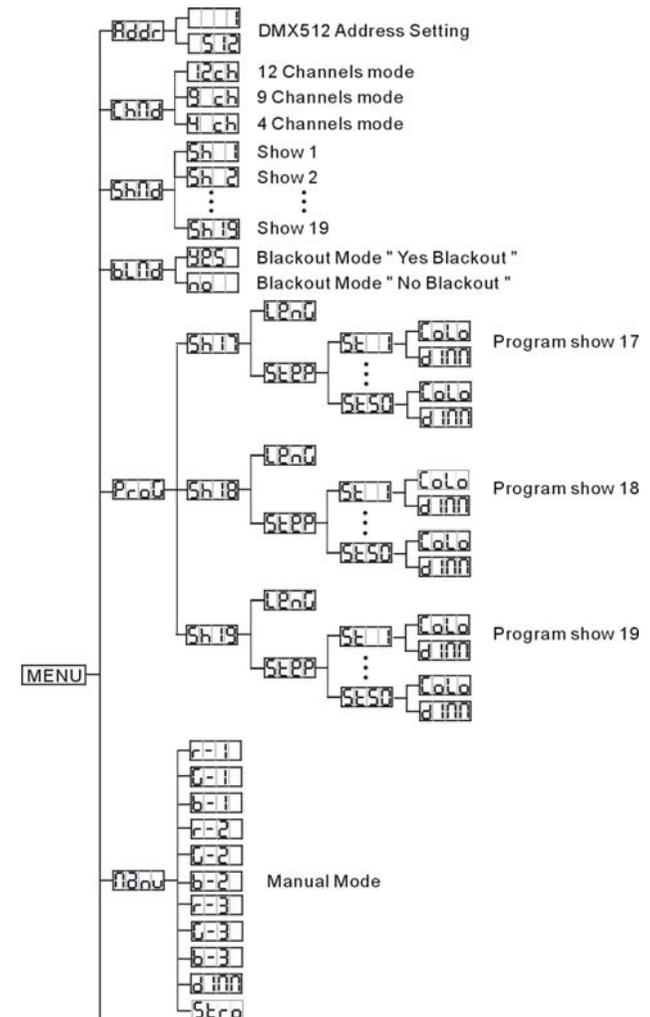
5.3 DMX 512 Configuration

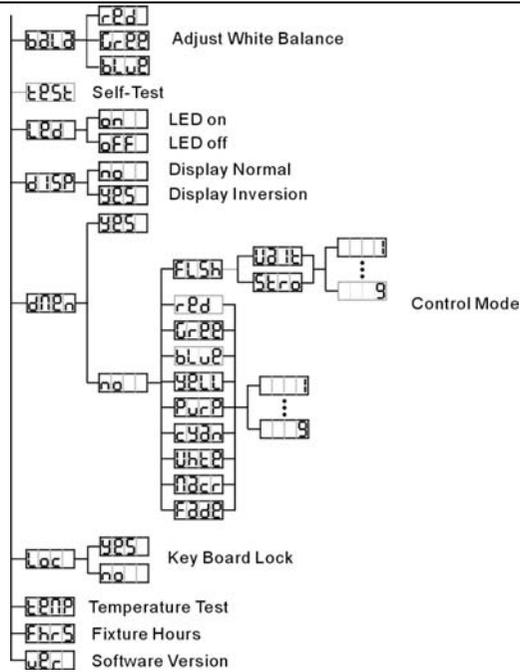
12 Channels:

DMX 512 Configuration					
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6
Red	Green	Blue	Red	Green	Blue
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%
Ch7	Ch8	Ch9	Ch10	Ch11	Ch12
Red	Green	Blue	Preset Color	Dimmer	Strobe
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	248-255 Preset Color 32 240-247 Preset Color 31 232-239 Preset Color 30 225-231 Preset Color 29 217-224 Preset Color 28 209-216 Preset Color 27 202-208 Preset Color 26 194-201 Preset Color 25 186-193 Preset Color 24 178-185 Preset Color 23 171-177 Preset Color 22 163-170 Preset Color 21 155-162 Preset Color 20 148-154 Preset Color 19 140-147 Preset Color 18 132-139 Preset Color 17 124-131 Preset Color 16 117-123 Preset Color 15 109-116 Preset Color 14 101-108 Preset Color 13 93-100 Preset Color 12 86-92 Preset Color 11 78-85 Preset Color 10 70-77 Preset Color 9 63-69 Preset Color 8 55-62 Preset Color 7 47-54 Preset Color 6 39-46 Preset Color 5 32-38 Preset Color 4 24-31 Preset Color 3 16-23 Preset Color 2 8-15 Preset Color 1 0-7 White	255 100% 0 0%	248-255 Open 240-247 Random Strobe 232-239 Open 190-231 Slow Close Fast Open 182-189 Open 140-181 Slow Open Fast Close 132-139 Open 16-131 8-15 Open 0-7 Off

4.2 Main Function

To select any of the given functions, press the **MENU** button up to when the required one is showing on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup or it will automatically return to the main functions without any change after idling 8 seconds. To go back to the functions without any change press the **MENU** button. The main functions are showing below:





Once you set **Loc** to **YES**, after running in show mode for 5 minutes without any change or restarting the unit, the key board become locked. Press **ENTER** button to enable the menu, the display will show **000**, press **UP** and **DOWN** button until it shows **111**, then press **ENTER** to unlock.

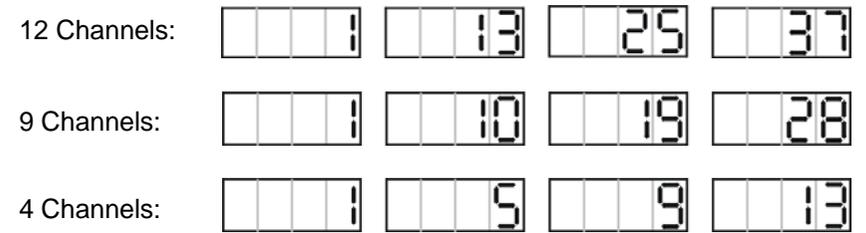
Addr DMX 512 Address Setting

Press the **MENU** button up to when the **Addr** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX 512 address. Once the address has been selected, press **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. Back to the previous functions without any change press **MENU** button.

Chnd Channel Mode

Press the **MENU** button up to when the **Chnd** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **12ch** (12 channels) or **9ch** (9 Channels) or **4ch** (4 channels) mode. Once

Press the **MENU** button up to when the **Addr** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again. Please refer to the following diagram to address your DMX512 channel for the first 4 units:



Press the **MENU** button up to when the **TEMP** is blinking on the display. Pressing **ENTER** button and the display will show the temperature of the unit. To go back to the functions press the **MENU** button again.

Fhrs Fixture Hours

Press the **MENU** button up to when the **Fhrs** is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button.

ver Software version

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

5. How To Control The Unit

You can operate the unit in two ways:

1. By master/slave built-in preprogram function
2. By universal DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be effected at once. Every time you turn the unit on, it will show **U25H** on the display, after that the unit will be ready to receive DMX signal or run the built in programs.

5.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic show. This function is good when you want an instant show. You have to select **Sh 1** (show 1) or **Sh 2** (show 2)or **Sh 19** (show 19, show17~19 have to be edited by the user) show for the first unit. Its DMX input jack will have nothing plugged into. The other units will be slave mode automatic.

5.2 Universal DMX Controller

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

the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the **MENU** button.

Shnd Show Mode

Press the **MENU** button up to when the **Shnd** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Sh 1** (show 1) or **Sh 2** (show 2) or **Sh 19** (show 19) show. Once the show has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the **MENU** button.

blnd Blackout Mode

Press the **MENU** button up to when the **blnd** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **yes** (yes blackout) or **no** (no blackout) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the **MENU** button.

Prog Program Shows

Press the **MENU** button up to when the **Prog** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Sh 17** (show 17) or **Sh 18** (show 18) or **Sh 19** (show 19) show. Once the show has been selected, press the **ENTER** button to enter setting program. You can select **Len** (length, the steps, you choose from the total amount of steps, you want to run, for example, if the total amount of steps you set is 50, you can choose only first 1-10 steps to run). **STEP** (step), select **STEP** to set **Colo** (color) and **dim** (dimmer) for every step. Automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the **MENU** button.

For dimmer, the function corresponds to the value shown below:

value	function
0-199	Dimmer from 0% to 100%
200—247	Strobe from slow to fast
248-255	Open

MANU Manual Mode

Press the MENU button up to when the **MANU** is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the **r-1**, **r-2**, **r-3** (red, 1 for 1 section, 2 for 2 section, 3 for 3 section) or **G-1**, **G-2**, **G-3** (green) or **b-1**, **b-2**, **b-3** (blue) or **dimm** (dimmer) or **strob** (strobe) mode. Once the mode has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the MENU button.

For strobe, the function corresponds to the value shown below:

value	function	value	function
0-7	OFF	182-189	Open
8-15	Open	190-231	Slow close fast open
16-131	Strobe from slow to fast	232-239	Open
132-139	Open	240-247	Random strobe
140-181	Slow open fast close	248-255	Open

WALB Adjust White Balance

Press the MENU button up to when the **WALB** is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the **red** (red) or **GREEN** (green) or **blue** (blue) mode. Once the mode has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the MENU button.

TEST Self-Test

Press the MENU button up to when the **TEST** is blinking on the display. Pressing

ENTER button and the unit will run self-test by built-in program. To go back to the previous functions press the MENU button.

LED LED

Press the MENU button up to when the **LED** is shown on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the **on** (display on) or **OFF** (display off) mode. Once the mode has been selected, press ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the MENU button.

DISP Display Inversion

Press the MENU button up to when the **DISP** is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the **no** (normal) or **YES** (inversion) mode. Once the mode has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the previous functions without any change press the MENU button.

DMEN DMX Control Mode

Press the MENU button up to when the **DMEN** is shown on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the **YES** (DMX control) or **no** (manual control) mode, press the ENTER button to confirm. If **no** is selected, use DOWN and UP button to select **FLSH** or **red**... or **fade**, press ENTER button to confirm, then use DOWN and UP button to adjust wait time or speed or dimmer, press ENTER button to store or automatically return to the main functions without any change after 8 seconds. Back to the previous functions press MENU button.

Loc Key Board Lock

Press the MENU button up to when the **Loc** is shown on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the **YES** (key board lock) or **no** (normal). Once select, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. Back to the previous functions press MENU button.

TEMP Temperature Test