VISIO
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Building Wash

BW-36

Http://www.visio-led.com

Specifications are subject to change without prior notice.

User Guide

Advanced LED Technology

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.

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Harmonized Standard

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

TABLE OF CONTENTS

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

⚠ **WARNING**

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

• 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. Be sure that no ventilation slots are blocked.

• Disconnect mains power before replacement or servicing.

• Maximum ambient temperature is ta: 40℃. Don't operate it where the temperature is higher than this.

• Unit surface temperature may reach up to 60℃. Don't touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool

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 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. Check DMX connectors, cables to see if link properly.
2. 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.

7. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

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 8 units, use another mains supply for next 8 units.

- The housing or the lenses must be replaced if they are visibly damaged.
- There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. 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.

2. Technical Specification

- DMX 3/4/6 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:** 65W
- **Light source:** 36×1W LED
  50,000hrs rated
- **Beam Angle:** as indicated on the product label (15°/25°/45° are available)
- **Dimension:** 205 × 222 × 310 mm
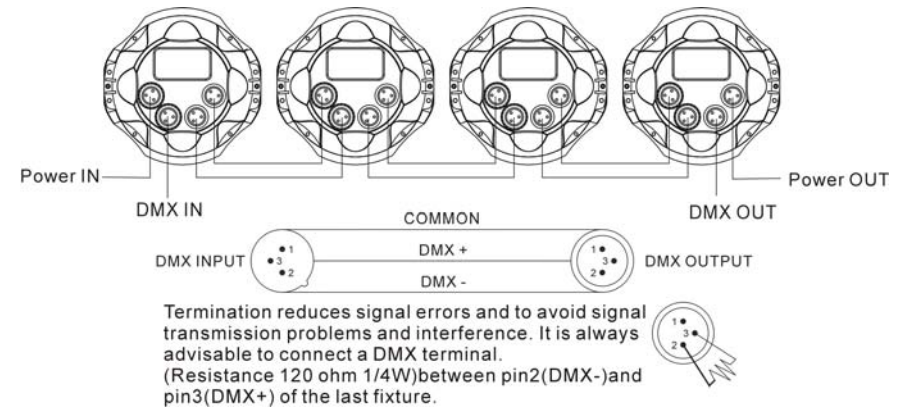- **Weight:** 4.5 kgs
- **Luminous intensity:**
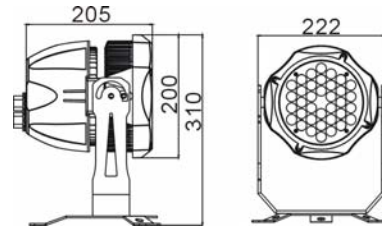
RED	45°	6800	1401	760	397	200	113.2	90.3	(lux)
	25°	11000	3500	1400	860	357	187	129	
	15°	12600	3900	1900	1050	493	264	197	
GREEN	45°	1230	302	137	74	33.2	19.1	15.6	(lux)
	25°	1870	630	390	175	87	43.5	26	
	15°	2600	800	406	221	102	56.2	38	
BLUE	45°	1670	438	195	114	50.5	31.2	19.8	(lux)
	25°	2900	850	370	220	109	65	30	
	15°	3300	1000	500	290	133	73.2	49.2	
RGB	45°	8600	2270	1000	560	279	165.5	115	(lux)
	25°	14500	5100	2540	1300	650	340	234	
	15°	18000	5900	2900	1550	732	385	286	
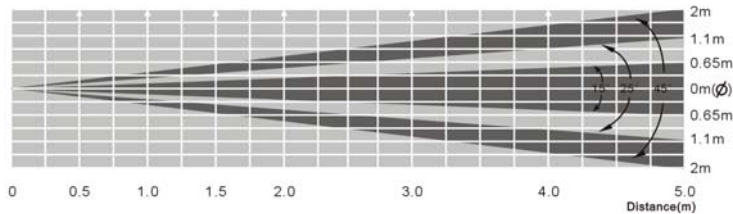
3. Change Beam Angle

If you want to change the beam angle of the fixture, you can change lens of the fixture refer to the photo below:

5.4 DMX512 Connection

Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W) between pin2(DMX-) and pin3(DMX+) of the last fixture.

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

5.3 DMX 512 Configuration

DMX 512 Configuration (6 CHs)

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6
Red	Green	Blue	Preset Color	Dimmer	Strobe

Ch1 Red: 255 — 100%, 0 — 0%
Ch2 Green: 255 — 100%, 0 — 0%
Ch3 Blue: 255 — 100%, 0 — 0%

Ch4 Preset Color:
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

Ch5 Dimmer: 255 — 100%, 0 — 0%

Ch6 Strobe:
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 (strobe speeds)
8-15 Open
0-7 Off

DMX 512 Configuration (3 CHs)

Ch1	Ch2	Ch3
Red	Green	Blue

Red: 255 — 100%, 0 — 0%
Green: 255 — 100%, 0 — 0%
Blue: 255 — 100%, 0 — 0%

DMX 512 Configuration (4 CHs)

Ch1	Ch2	Ch3	Ch4
Red	Green	Blue	Dimmer/Strobe

Red: 255 — 100%, 0 — 0%
Green: 255 — 100%, 0 — 0%
Blue: 255 — 100%, 0 — 0%

Ch4 Dimmer/Strobe:
248255 OPEN
200-247 (strobe speeds)
190-199 OPEN
100%
0-189
0%

4. How To Control The Unit

4.1 Rear Panel
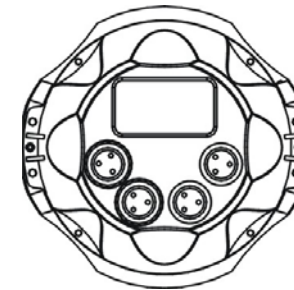
Display-water proof touch screen

Touch screen to choose and show menus

Power

Water proof plug for power input/output

DMX input/output

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

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 `0`, press UP and DOWN button until it shows `111`, then press ENTER to unlock.**
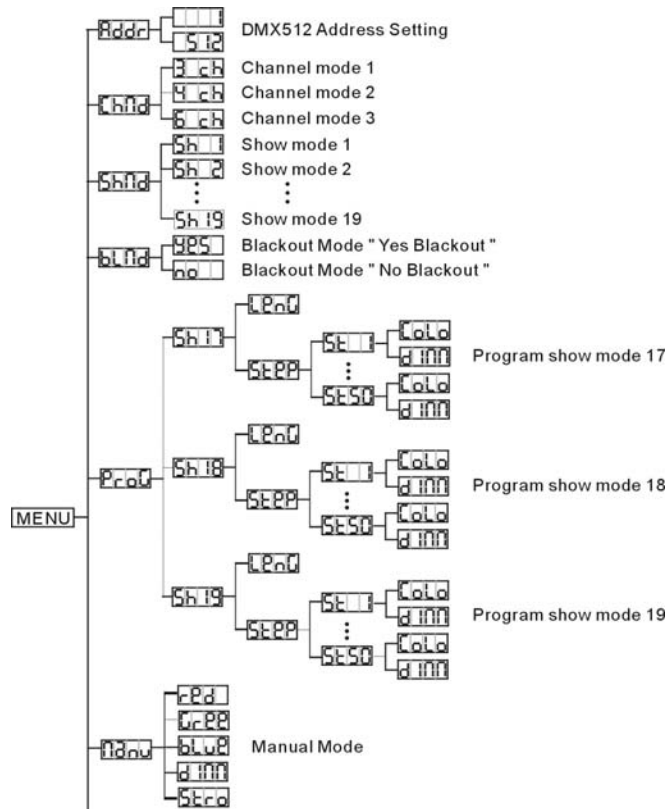
5.1 Master/Slave Built In Preprogrammed Function

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) mode 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.

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：

6 Channels: `1` `7` `13` `19`

3 Channels: `1` `4` `7` `10`

4 Channels: `1` `5` `9` `13`

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

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. Back to the previous functions press **MENU** button.

⬚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. Back to the previous functions press **MENU** button.

⬚uEr⬚ Software version

Press the **MENU** button up to when the ⬚uEr⬚ is blinking on the display. Pressing **ENTER** button and the display will show the version of software of the unit. Back to the previous functions press **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 ⬚bU36⬚ on the display, after that the unit will be ready to receive DMX signal or run the built in programs.
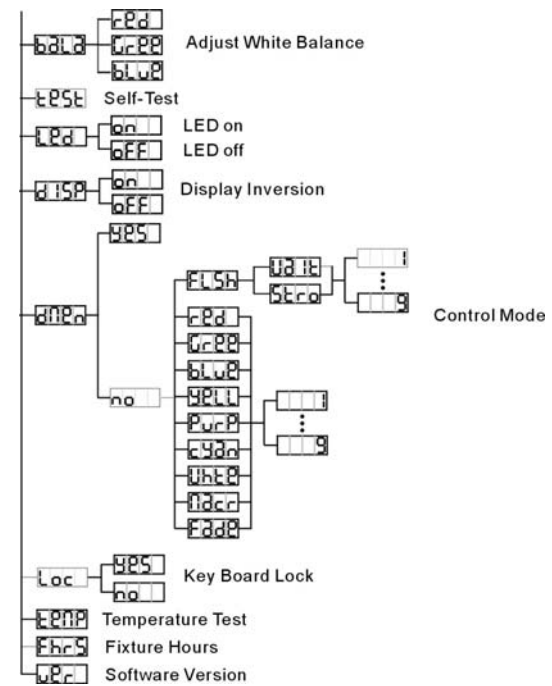
⬚Addr⬚ DMX 512 Address Setting

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.

⬚ChMd⬚ Channel Mode

Press the **MENU** button up to when the ⬚ChMd⬚ is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the ⬚3 ch⬚ (3 Channels) or ⬚4 ch⬚ (4 channels) or ⬚6 ch⬚ (6 channels) 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. Back to the previous functions without any change press **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) 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. Back to the previous functions without any change press **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. Back to the previous functions without any change press **MENU** button.

ProG Program Show Mode

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) mode. Once the mode has been selected, press the **ENTER** button to enter setting program. You can select LEnG (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 d 1NN (dimmer) for every step. Automatically return to the main functions without any change after 8 seconds. Back to the previous functions without any change press **MENU** button.

Nanu Manual Mode

Press the **MENU** button up to when the Nanu is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the rEd (red) or Gr88 (green) or bLu8 (blue) or d 1NN (dimmer) or Stro (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. Back to the previous functions without any change press **MENU** button.

b3L3 Adjust White Balance

Press the **MENU** button up to when the b3L3 is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the rEd (red) or Gr88 (green) or bLu8 (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. Back to the previous functions without any change press **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. Back to the previous functions press **MENU** button.

L8d LED

Press the MENU button up to when the L8d is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the on (ON) or oFF (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. Back to the previous functions press **MENU** button.

d 1SP Display Inversion

Press the **MENU** button up to when the d 1SP is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the on (normal) or oFF (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. Back to the previous functions press **MENU** button.

dN8n DMX Control Mode

Press the **MENU** button up to when the dN8n 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 Fad8, 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