2014.03.26

Building Wash Series

<u>User Manual</u>

Please read the instructions carefully before use

This user manual is used for

**BW-54-3, BW-108-3, BW-216-3, BW-14-10FC, BW-27-10FC, BW-54-10FC.
Including all colors, beam angles, W or W/O wireless DMX version.**

Innovation, Quality, Performance

TABLE OF CONTENTS

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.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN60598-2-17:1989 + A2:1991; EN60598-1:2008+ A11: 2009
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

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/Pin 5: Not used.

5. 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.

B. Not responding to DMX controller
 1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
 2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
 3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of 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.

6. Fixture Cleaning

The cleaning of internal 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 fixture'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.

1. Safety Instruction

⚠
WARNING

> **Please read the instructions carefully which includes important information about the installation, operation**

• 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.

Caution：

• All fixtures are intact from the manufacturer, please operate follow up the user manual, artificial fault are not under guarantee repair.
• Unpack and check carefully there is no transportation damage before using the unit。
• Do install and operate by operator。
• Use safety chain when fixes the unit。
• 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, otherwise the unit will be overheated.
• 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.
• Maximum ambient temperature TA : 40℃. Don't operate it where the temperature is higher than this.
• Don't connect the device to any dimmer pack.
• First run, there will be smoke or smells, and all disappearing a few minutes later.
• Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.
• Look over power wires carefully, replace immediately if there is any damage.
• Unit surface temperature may reach up to 60℃. Don't touch the housing bare-hand during its operation.
• Never run on for a long time lest shortening lifespan.
• Avoid any inflammable liquids, water or metal objects entering the unit. Once it happen, cut off the mains power immediately.
• Do not operate in dirty and dusty environment, also cleaning fixtures regularly.
• Do not allow children to operate the fixture.
• Do not touch any wire during operation as there might be a hazard of electric shock.
• Avoid power wires together arounding other cables.
• Replace fuse only with the same type.
• In the event of serious operating problem, stop using the unit immediately.
• Never turn on and off the unit time after time.
• The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

- Do not open the unit as there are no user serviceable parts inside. 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.
- Disconnect the mains power if the fixture is not used for a long time.
- Do use original packing materials once transport it again.
- Do not look directly at the LED light beam while the fixture is on.

> For BW-54-3 series, when the power supply is 110V, do not connect in series much more than 7 units, use another mains supply for next 7 units. When the power supply is 230V, do not connect in series much more than 14 units, use another mains supply for next 14 units.

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 10 times 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 fixed at a place where is out of the touch

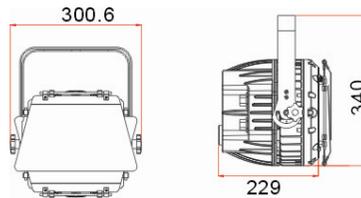of people and has no one pass by or under it.

Fittings:

User Manual

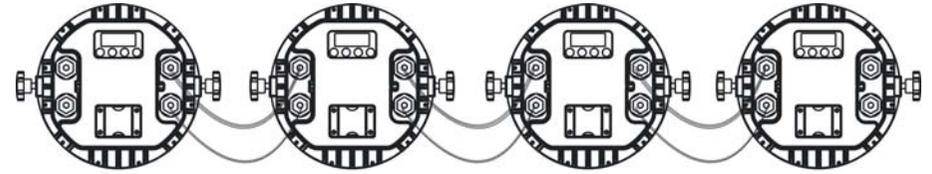## 2. Techical Specfications

BW-54-3:
- **Light source**: 3W LED x 54pcs
- **Voltage**：AC 100-240V/50Hz~60Hz
- **Power consumption**：120W
- **Lens Option:** D15、D25、D38
- **IP:** 66
- **Dimension**：300x 229 x 340 mm
- **Weight**：9.2 kg

4.4 DMX512connections

For BW-54-3/ BW-14-10FC series:

For BW-108/216-3RGBW,BW-108/216-3RGBW WT, BW-27/54-10FC, BW-27/54-10FC WT:
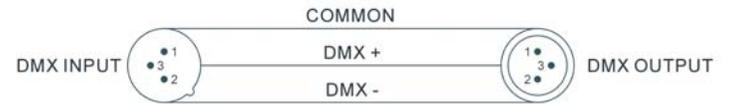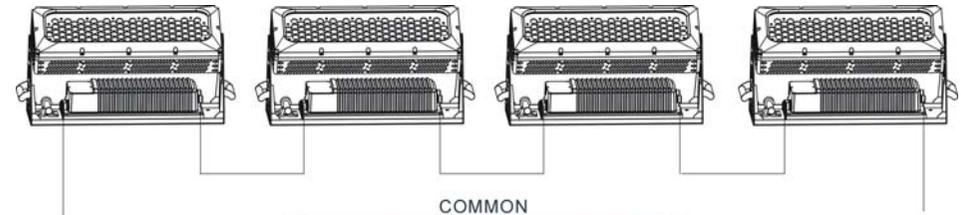
1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.

BW-54-3W：

2 Channel mode		2d Channel mode	
CH 1	CH2	CH 1	CH2
WW	CW	White	Dimmer

0-128→WW，
128-255→CW
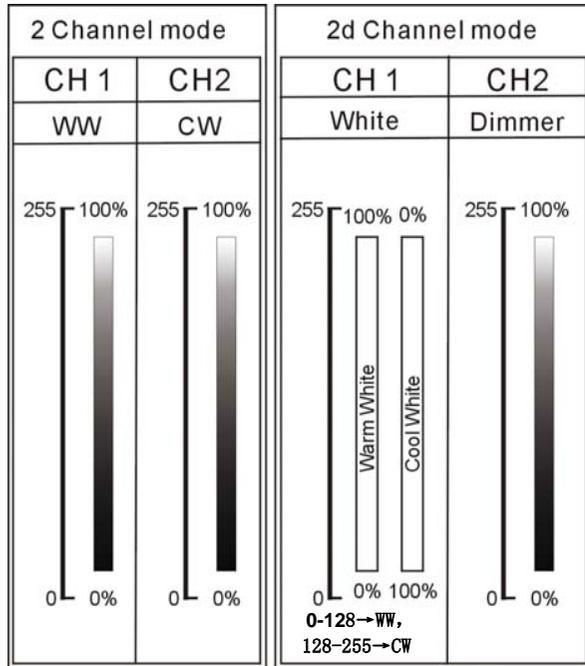
BW-14-10FC：

- **Light source**: 10W LED x14pcs
- **Voltage**：AC 100-240V/50Hz~60Hz
- **Power consumption**：140W
- **Lens Option:**D20、D30、D40、D60
- **IP:**66
- **Dimension**：311 x240x 329 mm
- **Weight**：9.2 kg
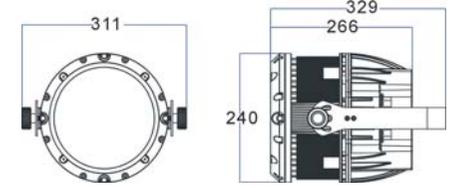
BW-108-3:

- **Light source**: 3W LED x 108pcs
- **Voltage**：AC 100-240V/50Hz~60Hz
- **Power consumption**：300W
- **Lens Option:**D6、D25、D40、D60、D80、D25x45
- **IP:**66
- **Dimension**：695 x 208x 325 mm
- **Weight**：24.1 kg
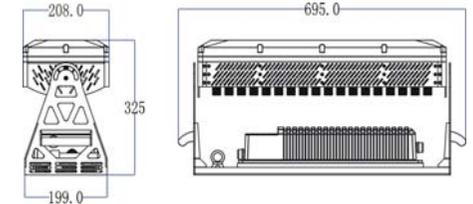
BW-27-10FC:

- **Light source**: 10W LED x 27pcs
- **Voltage**：AC 100-240V/50Hz~60Hz

Power consumption：301W

- **Lens Option**: D20，D30， D40， D60
- **IP:**66
- **Dimension**：695X208X325 mm
- **Weight**：24.1 kg

BW-216-3:

Light source: 3W LED x 216pcs(R48, G60. B60, W48)

- **Voltage**：AC 100-240V/50Hz~60Hz
- **Power consumption**：600W
- **Lens Option:** D25、D40、D60、 D80、D25x45、
- **IP**:66
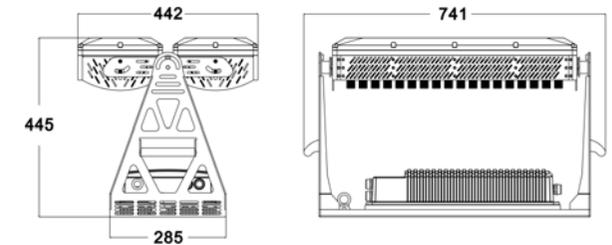
- **Dimension**：741X442X445 mm

- **Weight**：43.1 kg

BW-54-10FC：
- **Light source**: 10W LED x 54pcs

- **Voltage**：AC 100-240V/50Hz~60Hz

Power consumption：600W

- **Lens Option**: 20˚, 30˚, 40˚, 60˚

- **IP**:66

- **Dimension**：741X442X445 mm

- **Weight**：43.1kg

## 3. How To Set The Fixture

BW-54-3/ BW-14-10FC Series

3.1 Control Panel
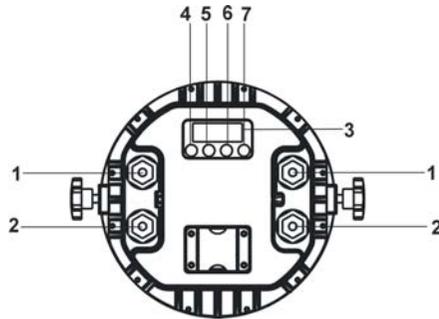
1: Power
Water proof connectors for power input/output

2: DMX input/output
Water proof connectors for DMX 512 operation, 3-pin XLR cable to link the unit together

3: Display
To show the menu and the selected functions

DMX Configurations									
10 CH MODE									
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8	Ch9	Ch10
RED1	GREEN1	BLUE1	WHITE1	DIMMER1	RED2	GREEN2	BLUE2	WHITE2	DIMMER2

BW-54-3WW/CW:

DMX Configuration

1 Channel mode

Dimmer

DMX Configuration

7 CH MODE

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7
RED	GREEN	BLUE	WHITE	COLOR	DIMMER	STROBE

Ch1 RED: 255 100% / 0 0%
Ch2 GREEN: 255 100% / 0 0%
Ch3 BLUE: 255 100% / 0 0%
Ch4 WHITE: 255 100% / 0 0%

Ch5 COLOR:
255 Open
248-254 Preset color32
240-247 Preset color31
232-239 Preset color30
224-231 Preset color29
217-223 Preset color28
209-216 Preset color27
201-208 Preset color26
194-200 Preset color25
186-193 Preset color24
178-185 Preset color23
170-177 Preset color22
163-169 Preset color21
155-162 Preset color20
147-154 Preset color19
140-146 Preset color18
132-139 Preset color17
124-131 Preset color16
116-123 Preset color15
109-115 Preset color14
101-108 Preset color13
093-100 Preset color12
085-092 Preset color11
078-084 Preset color10
070-077 Preset color9
062-069 Preset color8
055-061 Preset color7
047-054 Preset color6
039-046 Preset color5
031-038 Preset color4
024-030 Preset color3
016-023 Preset color2
008-015 Preset color1
001-007 OFF

Ch6 DIMMER: 255 100% / 0 0%

Ch7 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)
8-15 OPEN
0-7 OFF

DMX Configurations

8 CH MODE

Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8
RED1	GREEN1	BLUE1	WHITE1	RED2	GREEN2	BLUE2	WHITE2

All channels: 255 100% / 0 0%

Button:

4	MENU	To select the programming functions
5	DOWN	To go backward in the selected functions
6	UP	To go forward in the selected functions
7	ENTER	To confirm the selected functions

3.2. Main Functions

To select any functions, press **MENU** button until the required one is shown 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 **ENTER** button to setup or it will automatically return to the main functions without any change after idling one minute. Back to the functions without any change press **MENU** button. The main functions are shown 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 `III`, then press **ENTER** to unlock.

BW-54-3/ BW-14-10FC:

MENU

- Addr
  - 1 ... 512 — DMX Address Setting
- Chnd
  - 4 — 4 Channel Mode(R,G,B,W)
  - 4C — 7 Channel Mode(R,G,B,W,Color,Dimmer,Strobe)
  - 4d — 5 Channel Mode(R,G,B,W,Dimmer)
- ShNd
  - Sh 1 / Sh 2 ... Sh 19
    - F 0 ... F255
    - U 0 ... U255 — Show Mode
- bLNd
  - yes — Blackout Mode - Yes Blackout
  - Last — Blackout Mode - Keep the last status
  - no — Blackout Mode - No Blackout
- ProG
  - Sh17 / Sh18 ... Sh19
    - LEnG / StEP
    - St 1 ... StS0
    - CoLo / UhtE / dinn
    - 0 ... 255 — Program show
- Nanu
  - red / Gree / bLuE / UhtE / d1nn / Stro
    - 0 ... 255 — Manual mode
- baLa
  - red / Gree / bLuE
    - 125 ... 255 — White Balance
- dISP
  - on — Normal
  - oFF — Inversion
- dNPn
  - yes
    - FLSh
      - Ua1t / Stro
        - 1 ... 9
    - red / Gree / bLuE / Uh1t / yELL / PurP / cyan / UhtE
      - 1 ... 9
    - Nacr / FadE
      - SP 1 ... SP 9
  - no

  DMX Control Mode

- Loc
  - yes
  - no — Keyboard Lock
- tPSt — Autotest
- LPd
  - on — LED on
  - oFF — LED off
- tPNP — Fixture Temperature
- FhrS — Fixture Hours
- uEr — Software version

For BW-216-3RGBW, BW-216-3RGBW WT, BW-54-10FC,BW-54-10FC WT:

DMX Configurations								
4 CH MODE				5 CH MODE				
Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch5
RED	GREEN	BLUE	WHITE	RED	GREEN	BLUE	WHITE	DIMMER
255 100% ... 0 0%	255 100% ... 0 0%	255 100% ... 0 0%	255 100% ... 0 0%	255 100% ... 0 0%	255 100% ... 0 0%	255 100% ... 0 0%	255 100% ... 0 0%	255 100% ... 0 0%
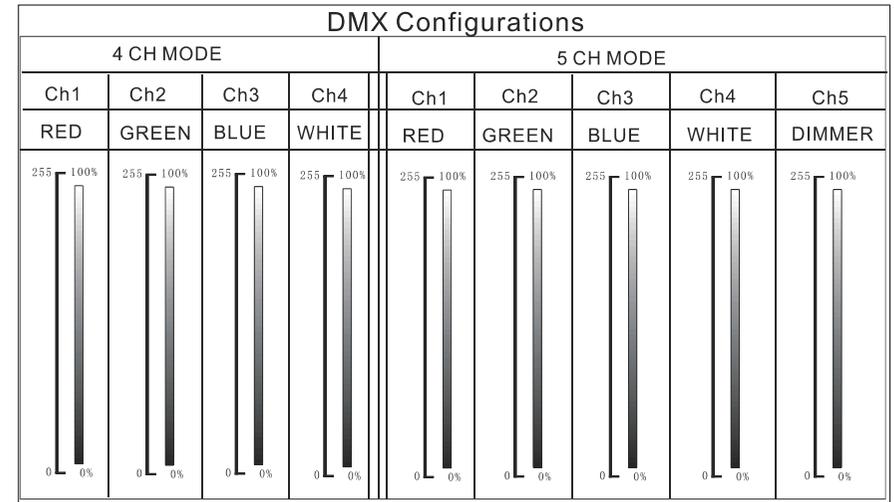
4.3 DMX 512 Configuration

For BW-54-3RGBW, BW-14-10FC, BW-108-3RGBW, BW-108-3RGBW WT, BW-27-10FC,
BW-27-10FC WT:8

DMX Configurations
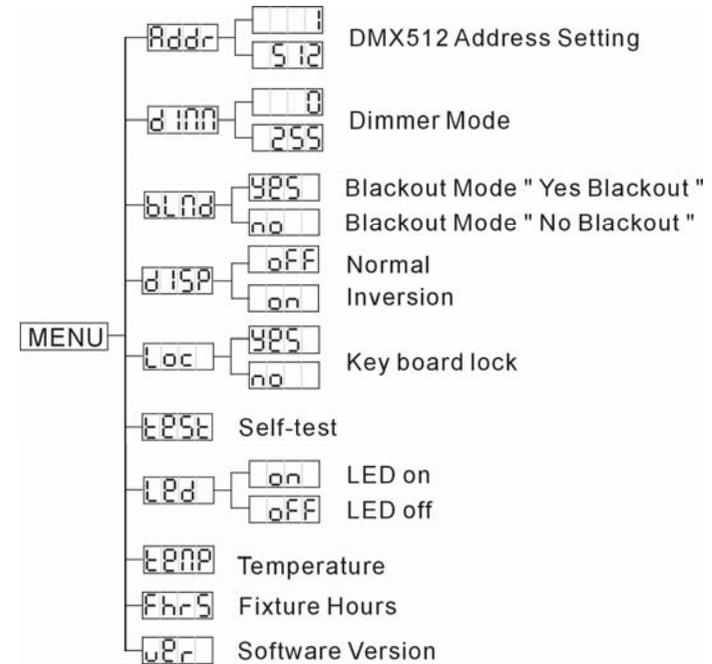
4 Channels (4 Mode)				5 Channels (4D Mode)				
Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch5
RED	GREEN	BLUE	WHITE	RED	GREEN	BLUE	WHITE	DIMMER

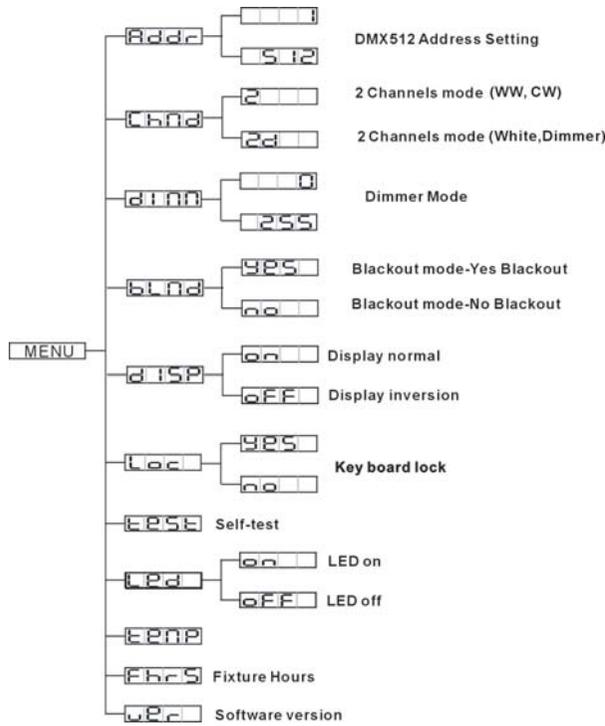| 7 Channels (4C Mode)						
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7
RED	GREEN	BLUE	WHITE	COLOR	DIMMER	STROBE

COLOR:
```
255     Open
248-254 Preset color32
240-247 Preset color31
232-239 Preset color30
224-231 Preset color29
217-223 Preset color28
209-216 Preset color27
201-208 Preset color26
194-200 Preset color25
186-193 Preset color24
178-185 Preset color23
170-177 Preset color22
163-169 Preset color21
155-162 Preset color20
147-154 Preset color19
140-146 Preset color18
132-139 Preset color17
124-131 Preset color16
116-123 Preset color15
109-115 Preset color14
101-108 Preset color13
093-100 Preset color12
085-092 Preset color11
078-084 Preset color10
070-077 Preset color9
062-069 Preset color8
055-061 Preset color7
047-054 Preset color6
039-046 Preset color5
031-038 Preset color4
024-030 Preset color3
016-023 Preset color2
008-015 Preset color1
001-007 OFF
```

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
8-15     OPEN
0-7      OFF
```

BW-54-3WW/CW:

MENU
- Addr — DMX512 Address Setting (1 / 512)
- diNN — Dimmer Mode (0 / 255)
- bLNd — Blackout Mode " Yes Blackout " (yes) / Blackout Mode " No Blackout " (no)
- diSP — Normal (oFF) / Inversion (on)
- Loc — Key board lock (yes / no)
- tESt — Self-test
- LEd — LED on (on) / LED off (oFF)
- tENP — Temperature
- FhrS — Fixture Hours
- uEr — Software Version

BW-54-3W:

Menu tree:
- Addr — DMX512 Address Setting (1 ... 512)
- ChNd:
  - 2 — 2 Channels mode (WW, CW)
  - 2d — 2 Channels mode (White, Dimmer)
- diNN — Dimmer Mode (0 ... 255)
- bLNd:
  - 425 — Blackout mode-Yes Blackout
  - no — Blackout mode-No Blackout
- diSP:
  - on — Display normal
  - oFF — Display inversion
- Loc:
  - 425 — Key board lock
  - no
- tRSt — Self-test
- LPd:
  - on — LED on
  - oFF — LED off
- tRNP
- FhrS — Fixture Hours
- uPr — Software version

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 exit menu mode without any change after one minute. Back to the previous functions without any change press **MENU** button.

**ChNd** Channel mode (For BW-54-3RGBW/BW-14-10FC)

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 **4** (4channels, **4 c** (7channels) or **4 d** (5channels)，Once select, press **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.
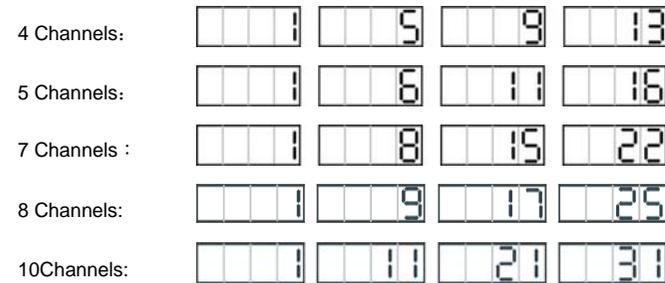

Use universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.
Press the **MENU** button up to when the **Addr** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed 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.

For **BW-54-3RGBW, BW-14-10FC, BW-108-3RGBW,BW-108-3RGBW WT,BW-27-10FC** and **BW-27-10FC WT**, Please refer to the following diagram to address your DMX512 channel for the first 4 units：

4 Channels： 1	5	9	13
4C Channels： 1	8	15	22
4D Channels： 1	6	11	16
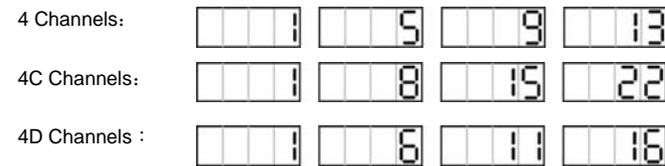
For **BW-216-3RGBW, BW-216-3RGBW WT, BW-54-10FC and BW-54-10FC WT,** Please refer to the following diagram to address your DMX512 channel for the first 4 units：

4 Channels： 1	5	9	13
5 Channels： 1	6	11	16
7 Channels： 1	8	15	22
8 Channels: 1	9	17	25
10Channels: 1	11	21	31

For **BW-54-3WW/CW,** Please refer to the following diagram to address your DMX512 channel for the first 4 units：

1Channel： 1	2	3	4

For **BW-54-3W,** Please refer to the following diagram to address your DMX512 channel for the first 4 units

2 Channels： 1	3	5	7
2D Channels： 1	3	5	7

4. How TO Control The Unit

For BW-54-3/ BW-14-10FC Series:

You can operate the unit in two ways：
  1. By master/slave built-in preprogram function
  2. By DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be affected at once. Every time you turn the unit on, it will show ⌷⌷⌷⌷ on the display and move all the motors to their 'home' position. After that the unit will be ready to receive DMX signal or run the built in programs.

For BW-108-3,BW-216-3,BW-27-10FC, BW-54-10FC Series：

You can operate the unit in four ways:

1. By master/slave built-in preprogram function
2. By DMX controller
3. BY VD-T
4. BY XP-W512 RX **(Only for BW-108/216-3RGBW WT and BW-27/54-10FC WT**)

VD-T is a specially designed handy setup tool for all Visio integral fixtures and Controllers. By connecting VD-T to any fixture via XLR, you can easily setup DMX Address, Channel Modes, White Balance, Manual Colors, and Fade Speed functions. If you use VD-T to controll the unit,you can following User Manual of VD-T

If you use XP-W512 RX controlled the unit you can following User Manual of XP-W512 RX

4.1 Master/Slave Built In Preprogrammed Function

For **BW-54-3RGBW**, By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to select ⌷⌷⌷ (show 1) or ⌷⌷⌷ (show 2) ……or ⌷⌷⌷ (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.

For **BW-54-3WW/CW/W**, By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. In Master/Slave mode, the first fixture whose DMX input jack has with nothing connect will be master automatically, set other units to slave mode.

⌷⌷⌷⌷ **Channel mode (For BW-54-3W)**

Press the **MENU** button up to when the ⌷⌷⌷⌷ is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the⌷⌷⌷⌷ （2channels）,⌷⌷⌷⌷ （2channels），Once select, press **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button

⌷⌷⌷⌷ **Show mode (For BW-54-3RGBW/BW-14-10FC)**

Press the **MENU** button up to when the ⌷⌷⌷⌷ is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the ⌷⌷⌷⌷ （show 1） …. ⌷⌷⌷⌷ （show 19），Once select, press **ENTER** button to setup. press the **ENTER** button，⌷⌷⌷⌷ will blinking on the display, use **DOWN** and **UP** button adjust the fade time (0~255), press **ENTER** button to store and ⌷⌷⌷⌷ will blinking on the display, use **DOWN** and **UP** button adjust the white time (0~255), press **ENTER** button to store or automatically return to the main functions without any change after one minute. To go back to the previous functions without any change press the **MENU** button.

⌷⌷⌷⌷ **Blackout mode**

Press the MENU button up to when the ⌷⌷⌷⌷ is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the ⌷⌷⌷⌷（blackout），⌷⌷⌷⌷(keep the last status) or ⌷⌷⌷⌷ （normal） . Once select, press **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.

Note: The ⌷⌷⌷⌷ function is just for BW-54-3RGBW and BW-14-10FC.

⌷⌷⌷⌷ **Program Shows (For BW-54-3RGBW/BW-14-10FC)**

Press the MENU button up to when the ⌷⌷⌷⌷ is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the ⌷⌷⌷⌷（Show 17），⌷⌷⌷⌷（Show 18）or ⌷⌷⌷⌷（Show 19），Once the show has been selected, press the **ENTER** button to enter setting program. Use **DOWN** and **UP** button to select ⌷⌷⌷⌷(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), select ⌷⌷⌷⌷ to set ⌷⌷⌷⌷ (color) and ⌷⌷⌷⌷ (white) and ⌷⌷⌷⌷ (dimmer) for every step. Automatically return to the main functions without any change after one minute. To go back to the previous functions without any change press the **MENU** button.

⌷⌷⌷⌷ **Manual Mode (For BW-54-3RGBW/BW-14-10FC)**

Press the MENU button up to when the ⌷⌷⌷⌷ is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the ⌷⌷⌷⌷ （Red），⌷⌷⌷⌷ （Green），⌷⌷⌷⌷ （Blue）,⌷⌷⌷⌷ （White），⌷⌷⌷⌷ （Dimmer） or ⌷⌷⌷⌷ （Shutter），Once select, press **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.
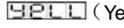
baLa White Balance

Press the **MENU** button up to when the **baLa** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **rPd**（Red），**GrPP**（Green），or **bLuP**（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 one minute. To go back to the previous functions without any change press the **MENU** button.
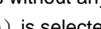
d ISP Display Inversion

Press the **MENU** button up to when the **d ISP** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on**（normal）or **oFF**（inverse），

dNPn DMX Control Mode

Press the **MENU** button up to when the **dNPn** 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），Once selected, press the **ENTER** button to setup. If **no** is selected, use **DOWN** and **UP** button to select **FLSH**（Flash mode），**rPd**（Red），**GrPP**（Green），**bLuP**（Blue），**UhtP**（White），**YPLL**（Yellow），**PurP**（Purple），**cYan**（Cyan），**UhtP**（Whole），**Nacr**（Rotation）or **FadP**（fade），press **ENTER** button to confirm, then use **DOWN** and **UP** button to adjust the dimmer(1…9).

Notice：
1. If **FLSH**（flash mode）is selected，press **ENTER** button to confirm, then use **DOWN** and **UP** button to select the **UaIt**(wait time) or **StrO** (strobe), Once select, press **ENTER** button to confirm. then use **DOWN** and **UP** button to adjust the the wait time or strobe speed (solw ,middle, fast) (1…..9). Once select, press **ENTER** button to store or automatically return to the main functions without any change after one minute. To go back to the previous functions without any change press the **MENU** button。
2. If **Nacr**（flash mode）is selected, press **ENTER** button to confirm, then use **DOWN** and **UP** button to adjust the type of the rotation(1…..9). Once select ,press **ENTER** button to store or automatically return to the main functions without any change after one minute. To go back to the previous functions without any change press the **MENU** button.
3. If **FadP**（fade）is selected, press **ENTER** button to confirm, then use **DOWN** and **UP** button to adjust rotation time(1…..9). Once select ,press **ENTER** button to store or automatically return to the main functions without any change after one minute. To go back to the previous functions without any change press the **MENU** button.

Loc Key Board Lock

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

tESt Self-Test

Press the **MENU** button up to when the，**tPSt** is blinking on the display. Pressing **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again.

LPd LED

Press the **MENU** button up to when the **LPd** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select **on**（display on）or **oFF**（display off 20 seconds after exit menu）mode. Once select, press **ENTER** button to setup or exit menu mode without any change after one minute. Back to the functions without any change press **MENU** button again.

tPNP Temperature Test

Press the **MENU** button up to when the **tPNP** 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.

uPr Software version

Press the **MENU** button up to when the **uPr** 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 again.

d INN Dimmer mode (For BW-54-3CW/WW and BW-54-3W)

Press the **MENU** button up to when the **d INN** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to adjust the value 0~255，Once selected, press **ENTER** button to setup or automatically exit menu mode without any change after one minute. Back to the previous functions without any change press **MENU** button.