

# Building Wash

**BW-180-RGBW**

## **User Manual**

Please read the instructions carefully before use

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## 1. Safety Instructions



### WARNING

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

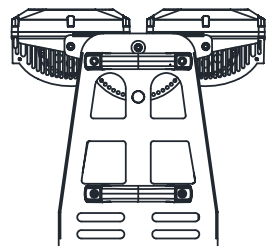
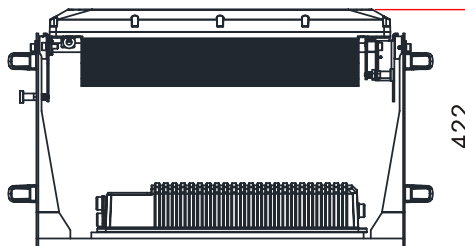
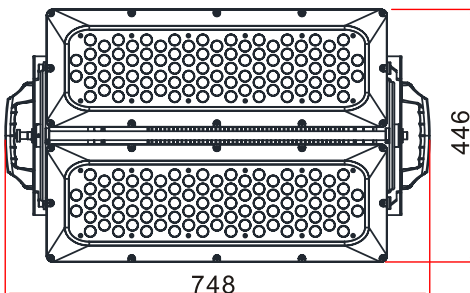
### Caution:

- All units 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 is 40°C. 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 85°C. 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 units regularly.

- Do not allow children to operate the unit.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together surrounding 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 unit 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 unit is on.
- To protect the machine, power off 10s rear can electrify.

## 2. Technical Specifications

- **Light source:** 3W CREE LED x 180pcs (R40, G50, B50, W40)
- **Voltage:** AC 100-240V/50Hz~60Hz
- **Power consumption:** 600W
- **Lens Option:** 6°, 15°, 25°, 25×45°, 40°, 60°
- **IP:** 66
- **Dimension:** 748X446X422 mm
- **Weight:** 43.1kg



### 3. Installation

The unit can be placed directly on the stage floor which can support 10 times of the unit's weight. Ensure that the stage floor to which you are placing the unit is secure.

Enhanced care has to be considered during the installation.

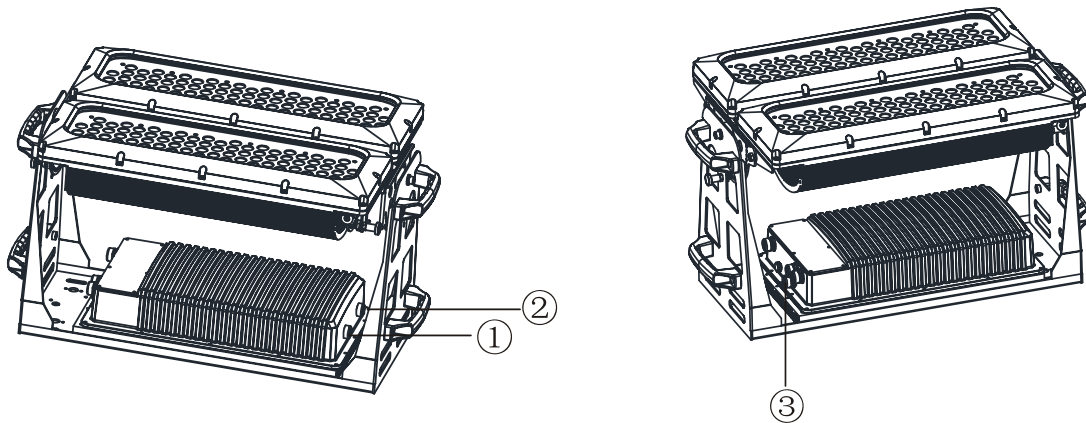
The equipment must be fixed by professionals.

**Note :** Range of mounting height is 0~30m.

### 4. How To Set The Unit

#### 4.1 Control Panel

You must use hand-held controller VD-T (sold separately) for DMX addressing or Channel mode selection, etc.



**①: Power**

Water proof connectors for power input.

**②: DMX input**

Water proof connectors for DMX 512 operation, 3-pin XLR cable to input DMX signal.

**③: DMX output**

Water proof connectors for DMX 512 operation, 3-pin XLR cable to output DMX signal.

### 5. How To Control The Unit

You can operate the unit in two ways:

1. By master/slave built-in preprogram function
2. BY VD-T

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

## 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, synchronized light show. This function is good when you want an instant show. In Master/Slave mode, the first unit whose DMX input jack has with nothing connect will be master automatically, set other units to slave mode.

## 5.2 DMX 512 Configuration

4CH (4 MODE)				5CH (4D MODE)				
Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch5
RED	GREEN	BLUE	WHITE	RED	GREEN	BLUE	WHITE	DIMMER

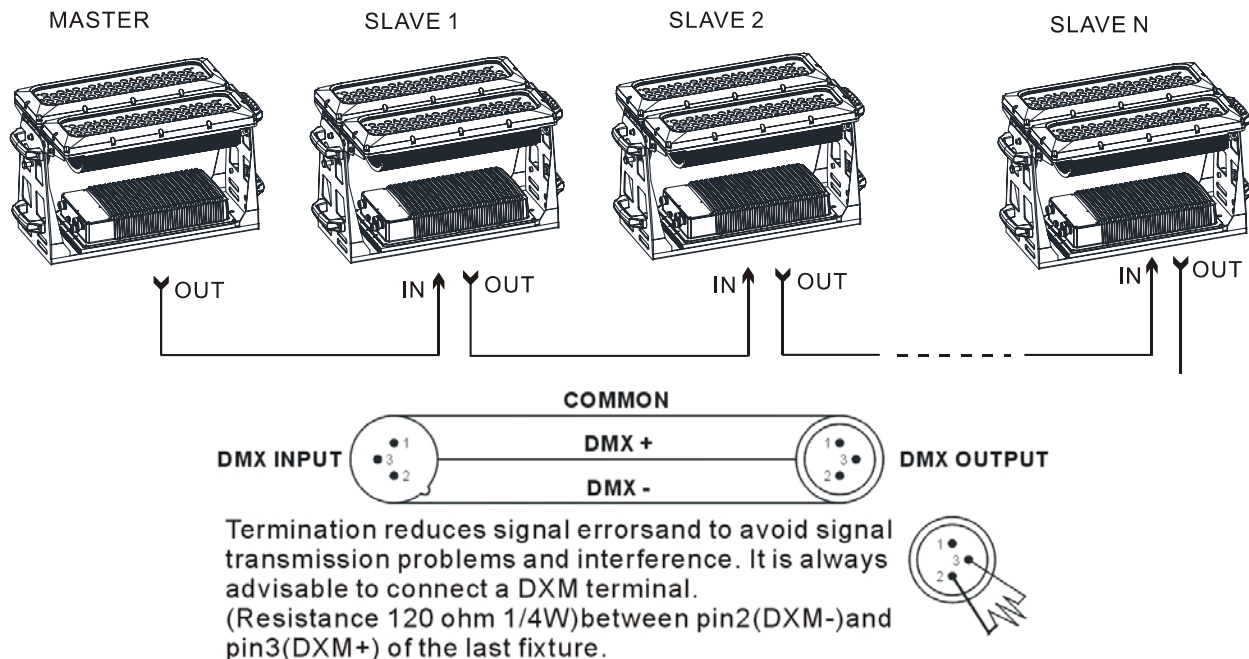
  

7CH (4C MODE)						
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7
RED	GREEN	BLUE	WHITE	COLOR	DIMMER	STROBE
				248-255 Preset color32 240-247 Preset color31 232-239 Preset color30 225-231 Preset color29 217-224 Preset color28 209-216 Preset color27 202-208 Preset color26 194-201 Preset color25 186-193 Preset color24 178-185 Preset color23 171-177 Preset color22 163-170 Preset color21 155-162 Preset color20 148-154 Preset color19 140-147 Preset color18 132-139 Preset color17 124-131 Preset color16 117-123 Preset color15 109-116 Preset color14 101-108 Preset color13 093-100 Preset color12 086-092 Preset color11 078-085 Preset color10 070-077 Preset color9 063-069 Preset color8 055-062 Preset color7 047-054 Preset color6 039-046 Preset color5 032-038 Preset color4 024-031 Preset color3 016-023 Preset color2 008-015 Preset color1 001-007 OFF		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

DMX Configuration							
8CH MODE							
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8
RED1	GREEN1	BLUE1	WHITE1	RED2	GREEN2	BLUE2	WHITE2
<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>

DMX Configuration									
10CH MODE									
Ch1	Ch2	Ch3	Ch4	Ch5	Ch6	Ch7	Ch8	Ch9	Ch10
RED1	GREEN1	BLUE1	WHITE1	DIMMER1	RED2	GREEN2	BLUE2	WHITE2	DIMMER2
<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>	<div> <div>255</div> <div>100%</div> <div>0</div> <div>0%</div> </div>

## 5.3 Master-Slave 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/Pin 5: Not used.

## 6. Troubleshooting

Following are a few common problems that may occur during operation and some suggestions for easy troubleshooting:

Problem	Possible Cause	Action
The unit does not work, no light.	Incorrect power cable connection.	Check the connection of power.
	Incorrect mains voltage.	Measure the mains voltage on the main connector.
The unit does not respond properly to the DMX control.	Incorrect DMX cable connection.	Check DMX connectors and cables to see if link properly. Repair or replace damaged wires.
	Incorrect address assignment to the units.	Check the addresses of the units and the protocol settings.
	Unfinished data connection.	Insert a terminal plug in the output jack of the last unit of the connection.
	It has been set up an operating mode different from the DMX mode used.	Check the operating mode set up.
		Try to use another DMX controller.

## 7. Cleaning and Maintenance

**DANGER!**

*Disconnect from the mains before starting any cleaning or maintenance work.*

The unit must be cleaned periodically to optimize light output. Cleaning frequency depends on the environment where the unit will operate: deposits of dust, smokes or other wastes will reduce the light output performances.

- Clean regularly the glass of the unit with soft cotton towel dampened with a glass-cleaning liquid or distilled water.
- Wash the housing with a soft brush or sponge and a mild, non-abrasive washing detergent.
- Remove smoke and other wastes by a cotton towel dampened with isopropyl alcohol.
- Be careful when cleaning the components.
- Always dry the parts carefully by a clean, soft, non-scratching towel or by compressed air.
- Maintenance and service operations are only to be carried out by a qualified person.

**Innovation, Quality, Performance**