SLe

Building wash

AEDI WASH GLOBUS 90 TW

User Manual

Please read the instructions carefully before use

Version 1.0

CONTENTS

1. SAFETY INSTRUCTION

 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.

DANGER!
Safety hazard.
Risk of severe
injury or death.

DANGER!
Hazardous
voltage. Risk of
lethal or severe
electric shock.

WARNING!
Fire hazard.

WARNING!
LED light
emission. Risk of
eye injury.

WARNING!
Burn hazard. Hot
surface. Do not
touch.

WARNING! Refer
to user manual.

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 that there is no transportation damage before using the unit per first time.
- 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.
- 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°C. DO NOT operate it where the temperature is higher than this.
- DO NOT connect the device to any dimmer pack.
- 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°C. DO NOT touch the housing bare-hand during its operation.

- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, 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 around other cables.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- The housing and the lenses 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.

> If you use a 230V 50Hz power supply, DO NOT connect in series more than 12 units; use another main supply for the next 12 fixtures.
> If you use a 120V 60Hz power supply, DO NOT connect in series more than 6 units; use another main supply for the next 6 fixtures.

The manufacturer does not take responsibility if the device is operated under conditions other than described in this manual. The product may suffer damage and the guarantee becomes void.

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 in the air.

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.
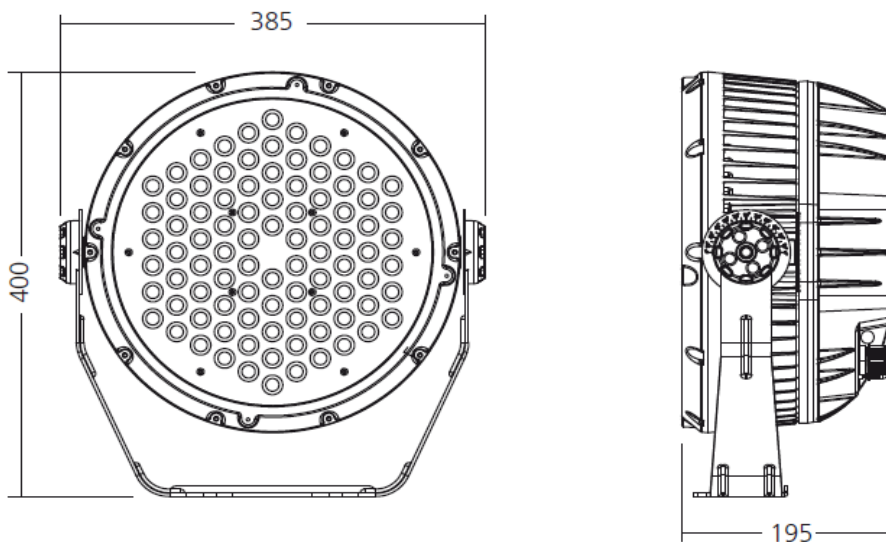
2. ABOUT THE PRODUCT

The stylishly modern and unassuming exterior of AEDI WASH GLOBUS houses state-of-the-art TUNABLE WHITE LED technology and made using the highest quality materials and construction methods. Bringing the flexibility to outdoor application, this powerful lighting fixture is ideally suited to use in landscape and building illumination, and IP66 ensures safe operation in even the most demanding areas. With integral built-in AC/DC power supply of 230V AC.

3. TECHNICAL SPECIFICATIONS

- OMS R&D specialists have designed this fixture to replace the traditional outdoor 400W discharge fixtures.

- Proper thermal management with active cooling system and heavy duty design to ensure reliable performance under harsh environment

- It features 90pcsx3W CREE WW/CW LEDs provides powerful output and excellent color mixing.

- Great built-in programs for instant light shows.

- Different optical systems, ideal for different applications – for the illumination of buildings, bridges, stadium, landscapes, theme parks and more.

- Die-cast housing and thermal management for the reliable performance.

- Power Electronics using 1 kHz refreshing frequency, flicker-free under HD camera

- **Mounting：** Manual Tilt Adjustable Bracket
- **Optical systems:** 6° / 15° / 25°/ 40°/ 60°/ 80°
- **Light Source:** 90 ×3W WW/CW CREE LEDs
- **LED color variants:** TUNABLE WHITE 2900 to 5700K
- **Lumen Output:** > 9000 lm
- **Input Voltage：** 100-240V AC 50/60Hz Daisy Chain System
- **Wiring:** Dimmable Electronic Control Gear USITT DMX 512 A
- **Power Consumption：** Max. 267 W / Average consumption in color mixing mode 140 W
- **Power cable connection:** IP rated connectors
- **Service lifetime:** 50,000 hrs. / L70 /@ 25°C
- **Operating ambient tem:** -20°C/+40°C
- **Materials:** Housing: die-cast aluminum.

  Cover: clear hardened glass.
- **IP Rating:** IP66
- **Dimension：** 399× 400×195mm
- **Weight：** 16.4 kg
- **Finishing:** White aluminum. (RAL 9006).
- **Accessories:** DMX controllers: AEDITEMPA ATTACA & AEDITEMPA LIBA
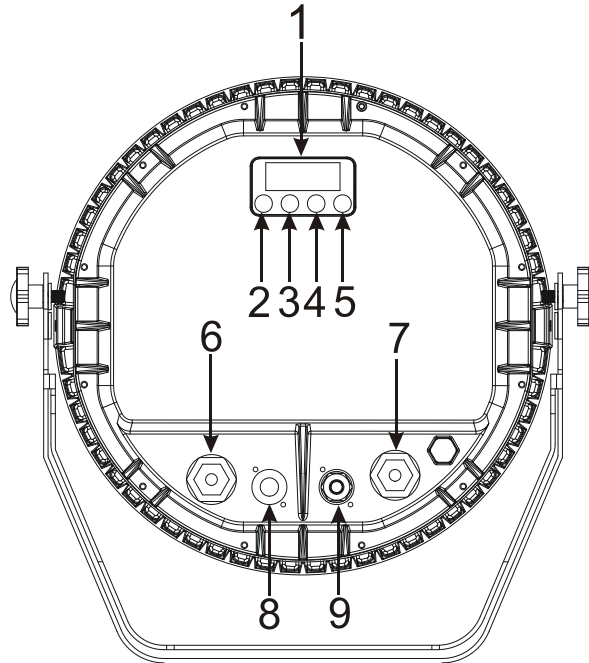
4. ACCESSORIES

- Power Extension Cable 1, 2, 5, 10 m.

- DMX Extension Cable 1, 2, 5, 10 m.

5. HOW TO SET THE FIXTURE

5.1 CONTROL PANEL

1. Display:

   To show the various menus and the selected functions

Button:

2. MENU	To select the programming functions
3. DOWN	To go backward in the selected functions
4. UP	To go forward in the selected functions
5. ENTER	To confirm the selected functions

6. POWER IN:

   Water proof connectors for power input

7. POWER OUT:

   Water proof connectors for power output

8. DMX IN:

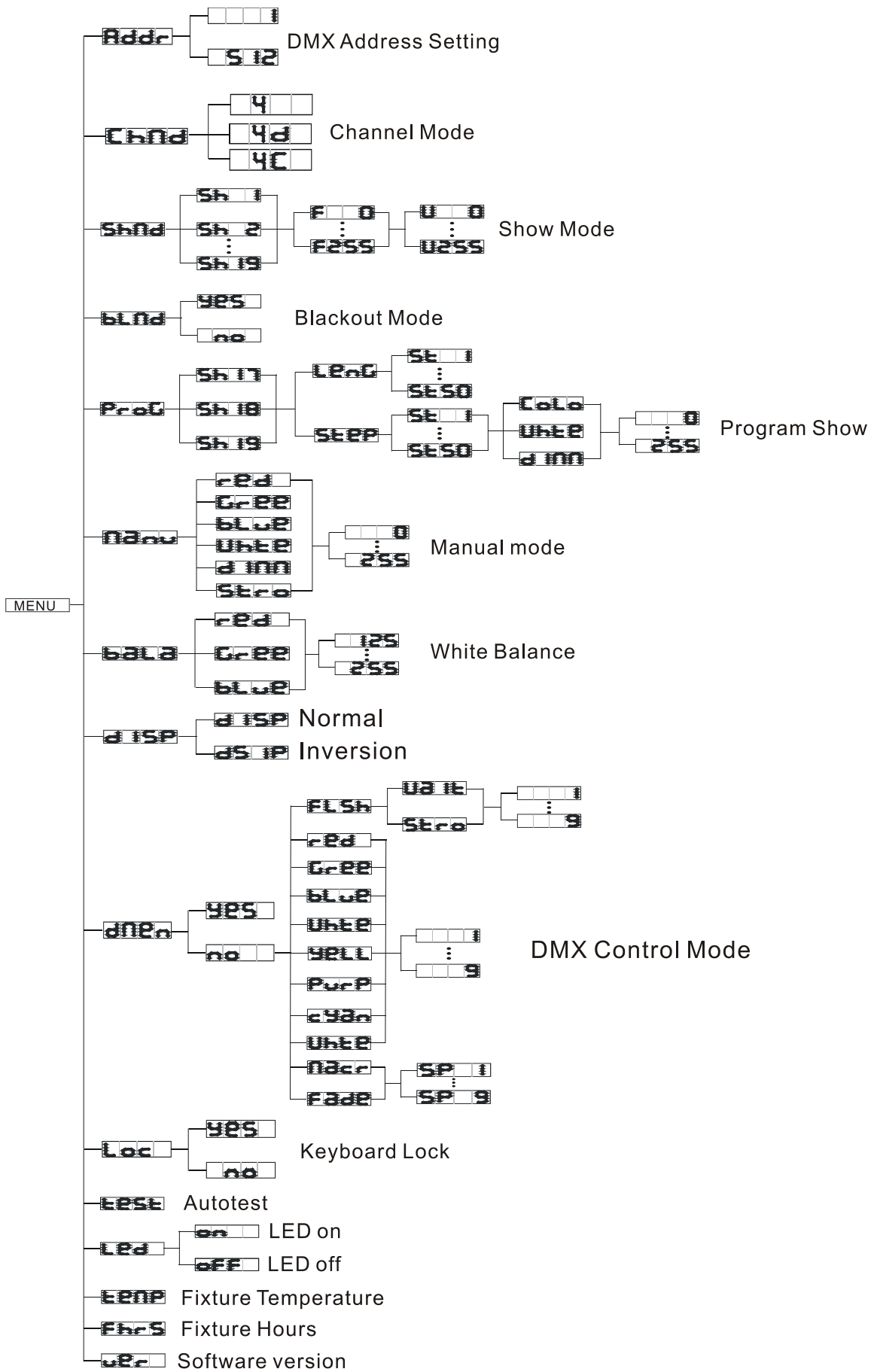   Water proof 3-pin XLR connectors for DMX 512 operation

9. DMX OUT:

   Water proof connectors for DMX 512 operation with 3-pin XLR plug

5.2 MAIN FUNCTIONS

To select any functions, press the **MENU** button until the required one is shown on the display. Select the function by the **ENTER** button and the display will blink. Use the **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 one minute. Back to the functions without any change press the **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 the ENTER button to enable the menu, the display will show** 0**, press the UP and DOWN button until it shows** III **, then press the ENTER to unlock.**

Addr — DMX Address Setting
- `1`
- `S 12`

ChNd — Channel Mode
- `4`
- `4d`
- `4C`

ShNd — Show Mode
- `Sh 1`
- `Sh 2`
- `Sh 19`
  - `F 0` … `F255`
    - `U 0` … `U255`

bLNd — Blackout Mode
- `yes`
- `no`

ProG — Program Show
- `Sh 17`
- `Sh 18`
- `Sh 19`
  - `LEnG`
    - `St 1` … `St50`
  - `StEP`
    - `St 1` … `St50`
      - `CoLo`
      - `UhtE`
      - `dinn`
        - `0` … `255`

NaNu — Manual mode
- `red`
- `Gree`
- `bLuE`
- `UhtE`
- `dinn`
- `Stro`
  - `0` … `255`

baLa — White Balance
- `red`
- `Gree`
- `bLuE`
  - `125` … `255`

dISP
- `dISP` Normal
- `dSIP` Inversion

dNPn — DMX Control Mode
- `yes`
- `no`
  - `FLSh`
    - `Uait`
    - `Stro`
      - `1` … `9`
  - `red`
  - `Gree`
  - `bLuE`
  - `UhtE`
  - `yeLL`
  - `PurP`
  - `cyan`
  - `UhtE`
    - `1` … `9`
  - `Nacr`
  - `FadE`
    - `SP 1`
    - `SP 9`

Loc — Keyboard Lock
- `yes`
- `no`

tESt — Autotest

LEd
- `on` LED on
- `oFF` LED off

tENP — Fixture Temperature

FhrS — Fixture Hours

uEr — Software version

MENU

Addr DMX 512 Address Setting

Select the **Addr**, press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the DMX 512 address. Once the address has been selected, press the **ENTER** button to setup or automatically exit menu mode without any change after one minute. Back to the previous functions without any change press the **MENU** button.

ChNd Channel mode

Select the **ChNd**, press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **4** (4 Channels), **4d** (5 Channels）or **4C** (7 Channels) Mode. Once select, press the **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.

ShNd Show mode

It allows you to select among the built-in programs

Select the **ShNd**, press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **Sh 1** (show 1)…. **Sh 19** (show 19). Once select, press the **ENTER** button to setup. press the **ENTER** button，**F 0** will blinking on the display, use **DOWN** and **UP** button adjust the fade time (0~255), press the **ENTER** button to store and **U 0** will blinking on the display, use the **DOWN** and **UP** button adjust the white time (0~255), press the **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.

bLNd Blackout mode

Select the **bLNd**, press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **yes** (blackout) or **no** (normal). Once selected, press the **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.

⊓⊓⊓⊔ Program Shows

Press the **MENU** button up to when the ⊓⊓⊓⊔ is shown on the display. Press the **ENTER** button and select the ⊓⊓⊓⊔ mode, Press the **ENTER** button and the display will blink. Use the **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 program setting.

Use the **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

Press the **MENU** button up to when the ⊓⊓⊓⊔ is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the ⊔⊔⊔⊔（Red）,⊔⊔⊔⊔

（Green）,⊔⊔⊔⊔（Blue）,⊔⊔⊔⊔（White）, ⊔⊔⊔⊔（Dimmer） or ⊔⊔⊔⊔（Strobe）.

Once selected, press the **ENTER** button to setup, then use the **DOWN** and **UP** button to adjust the value (0~255) or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.

⊓⊓⊓⊔ White Balance

Press the **MENU** button up to when the ⊓⊓⊓⊔ is showing on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the ⊔⊔⊔⊔（Red）, ⊔⊔⊔⊔（Green）, or ⊔⊔⊔⊔（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.

⧉ d1SP Display Inversion

Press the **MENU** button up to when the **d1SP** is showing on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **on**（normal）or **oFF**（inverse），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.

⧉ dN2n DMX Control Mode

Press the **MENU** button up to when the **dN2n** is shown on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the **YES**（DMX control）or **no**（manual control），Once select, press the **ENTER** button to setup。If **no** is selected, use the **DOWN** and **UP** button to select **FLSH**（Flash mode），**rEd**（Red），**GrEE**（Green），**bLuE**（Blue），**UhtE**（White），**YELL**（Yellow），**PurP**（Purple），**cYan**（Cyan），**UhtE**（White），**Macr**（Macro）or **FadE**（fade），press the **ENTER** button to confirm, then use the **DOWN** and **UP** button to adjust the dimmer(1…9).

Notice：

If **FLSH**（flash mode）is selected，press the **ENTER** button to confirm, then use the **DOWN** and **UP** button to select the **Uait**(wait time) or **Stro** (shutter), Once select, press the **ENTER** button to confirm. then use the **DOWN** and **UP** button to adjust the the wait time or shutter speed(solw ,midum, fast)(1…..9). Once select, press the **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.

1. If **FLSH**（flash mode）is selected，press the **ENTER** button to confirm, then use the **DOWN** and **UP** button to select the **Uait**(wait time) or **Stro** (strobe), Once select, press the **ENTER** button to confirm. then use the **DOWN** and **UP** button to adjust the the wait time or strobe speed (solw ,middle, fast) (1…..9). Once select, press the **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 ⊡⊡⊏⊏ （flash mode）is selected, press the **ENTER** button to confirm, then use the **DOWN** and **UP** button to adjust the type of the rotation(1…..9). Once select, press the **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 ⊏⊑⊒⊒ （fade） is selected, press the **ENTER** button to confirm, then use the **DOWN** and **UP** button to adjust rotation time(1…..9). Once select, press the **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.

⌷⌷⌷⌷ Key Board Lock

Press the **MENU** button up to when the ⌷⌷⌷⌷ is showing on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to select the ⌷⌷⌷⌷ （lock the key board）or ⌷⌷⌷⌷ （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 the **MENU** button.

⌷⌷⌷⌷ Auto Test

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

⌷⌷⌷⌷ LED

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⌷⌷⌷⌷ （display on） or ⌷⌷⌷⌷ （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.

tᴇᴍᴘ **Temperature Test**

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

uᴇr **Software version**

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

6. HOW TO CONTROL THE UNIT

You can operate the unit 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 b903 on the display After that the unit will be ready to receive DMX signal or run the built in programs.
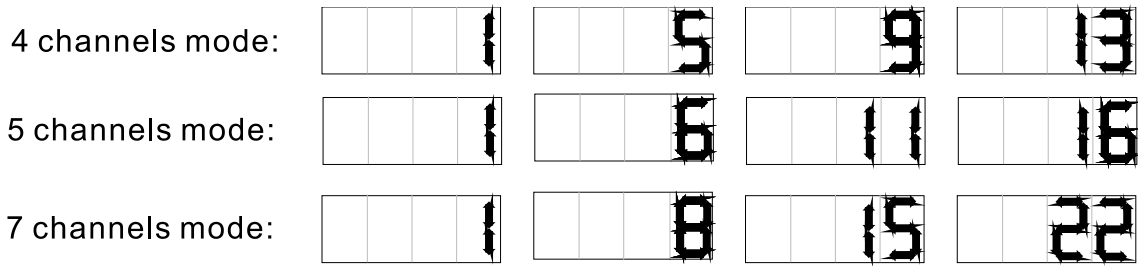
6.1 DMX Controller

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 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.

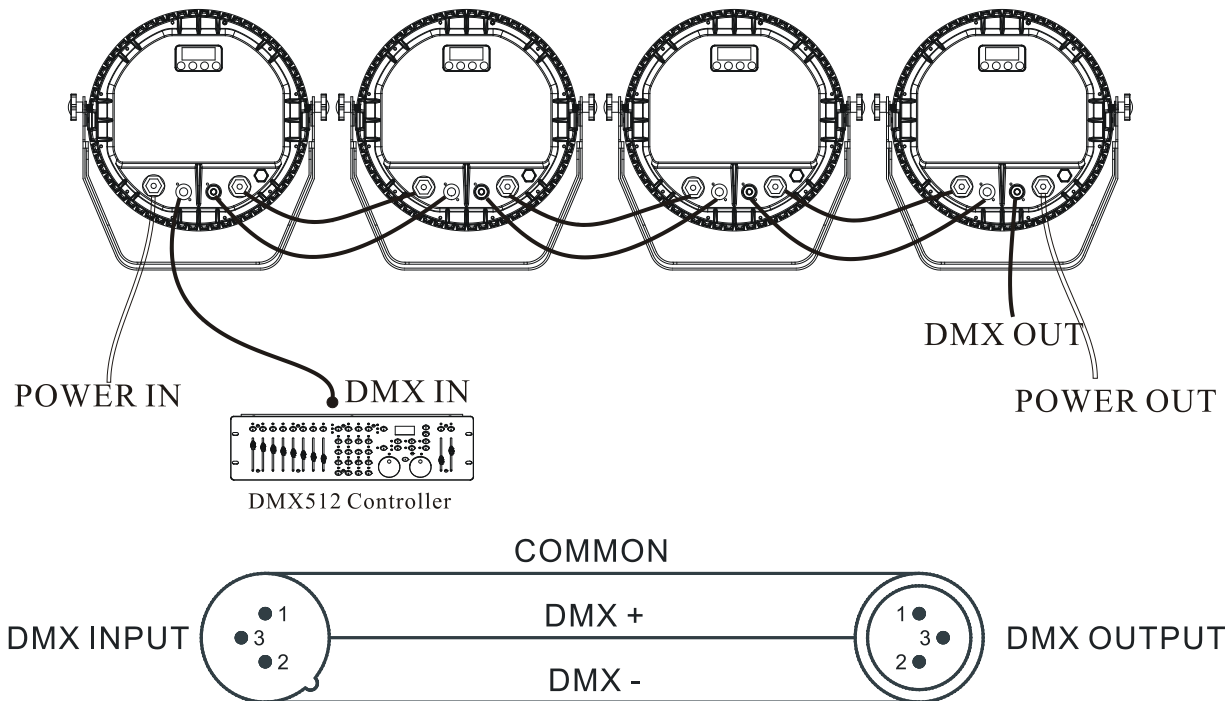Please refer to the following diagram to address your DMX512 channel for the first 4 units：

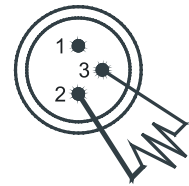|			
4 channels mode:	1	5	9	13
5 channels mode:	1	6	11	16
7 channels mode:	1	8	15	22

6.2 DMX 512 Configuration

4/5/7 Channels Mode:

DMX512 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

Ch5 COLOR:
248-255 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

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
8-15 OPEN
0-7 OFF

7. DMX512 CONNECTIONS

POWER IN   DMX IN

DMX OUT

POWER OUT

DMX512 Controller

COMMON

DMX +

DMX INPUT

DMX -

DMX OUTPUT

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 use a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.

2. 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.

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

4. 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).

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

6. 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.

8. TROUBLESHOOTING

Following are a few common problems that may occur during operation. Here are 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.

9. FIXTURE CLEANING AND MAINTANCE

The cleaning of outside glass 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.

Version 1.0

Specifications are subject to change without notice.

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

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

SLE

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