CE RoHS

USER MANUAL

LED WALL WASH

(KASBar 9 : TC3 Wash)

catalogue

Please read over this manual before operating the light

1.Summarize

➢ Summarize

Thank you for purchasing our LED wall wash lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misusage.

➢ Products introduce

This led par color-changing projecting light is covered by tensile aluminum, designed in a fashion of hydrodynamic form. It takes uses high power 3-in-1 LED. Each kind of LED can be independently dimmer. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, water, gradual change, fading and so on. International standard DMX 512 signal is requested.

➢ Packing list

- KASBar 9 : TC3 Wash   1PC
- bracket   2 pcs
- DMX cable 1 pc
- Waterproof power cable   1pc
- The use manual

2.Safety Information

➢ Safety Notes

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

**!** Avoid direct eye exposure to the fixture when it is on;

避免电击!

➢ Safety instruction

● Make sure the power supply voltage are consistent with this lights , Ensure the use of voltage is in the range of the request technical parameter.

●before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.

●This light is designed for indoor or outdoor, working temperature is lower than 40 degree.

●The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items (ornaments) in 0.5 meters away.

●Yellow / green cabling earthling safety; no flicker when the fixture is working on.

3.Outside Size Picture
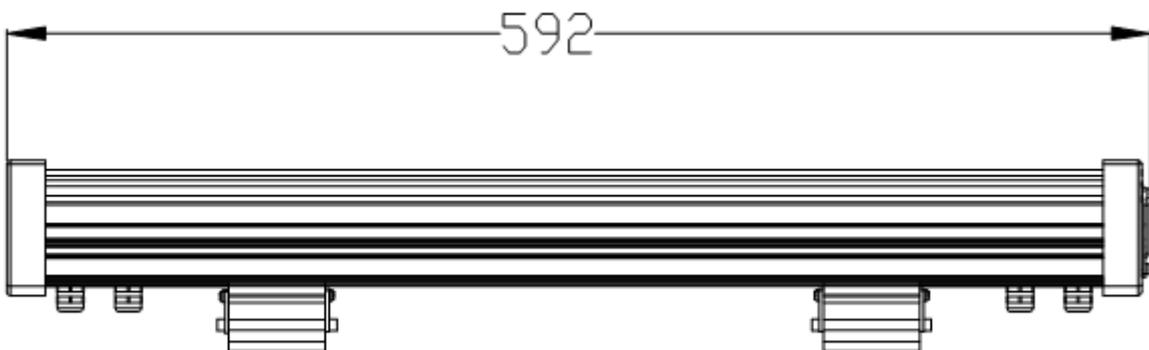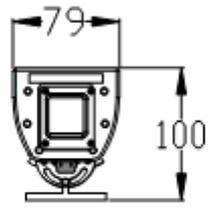
4.Main Function

- high quality LED :low consumption, high brightness, stable capability and long life
- each color of LED with 256 dimming. RGB can make over 16.7 million colors.
- dim 0%-100%, Strobe、gradual change、jumping change
- DMX512 Controller , 2 button set DMX ID address with led display, each pixel with 3 3-in-1 LEDS and total in 3 pixel.
- auto run /sound activated/master slave/interconnected multi-machine control
- using switching power supply to protect the LED to work well
- DMX512 channels:13channels

5.DMX Control Function

Channel	DMX Value	Control Function
CH1	0——10	Dimming
	11——51	Dimming+ strobe
	52——91	Gradual change
	92——131	Mode 1
	132——150	Mode 2
	151——169	Mode 3
	170——189	Mode 4
	190——209	Mode 5
	210——229	Mode 6
	230——249	Mode 7
	250——255	Comprehensive mode1-7
CH2	0-9	Red dimming (one pixel to another)
	10-255	Red general dimming 0-100%

CH3	0-9	Green dimming (one pixel to another)
	10-255	Green general dimming 0-100%
CH4	0-9	Blue dimming (one pixel to another)
	10-255	Blue general dimming 0-100%
CH5	0-255	The first red pixel dimming 0-100%
CH6	0-255	The first green pixel dimming 0-100%
CH7	0-255	The first blue pixel dimming 0-100%
CH8	0-255	The second red pixel dimming 0-100%
CH9	0-255	The second green pixel dimming 0-100%
CH10	0-255	The second blue pixel dimming 0-100%
CH11	0-255	The third red pixel dimming 0-100%
CH12	0-255	The third green pixel dimming 0-100%
CH13	0-255	The third blue pixel dimming 0-100%

6.Display Operation
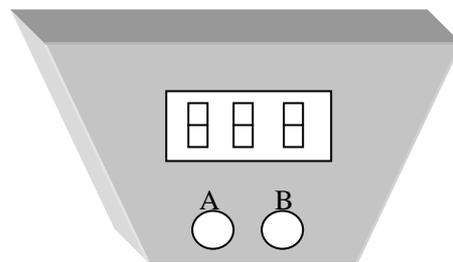
➢ A：function button

➢ B：setup button

7.Menu Instruction

1. "A" is the function button "B "is the setup button. correspond with DMX and built-in program mode.

    ● DMX mode: When shows all of the figures (001-512), for the light's DMX address code, receive DMX512 signal.

    ● built-in program mode: the first word on the left show "P" means built-in program mode, the second for the program 0-A, the third is to modify the programs.

2. operate as follows:

    ● For the DMX mode, press "A" firstly, the left first digit flashing, then press "B" to adjust the hundredths address as 0-5.

    ● press "A" secondly, the left second digit flashing, then press "B" to adjust tens-digit as 0-9

    ● press "A" thirdly, the left third digit flashing, then press "B" to adjust ones-digit as 0-9

    ● press "A" fourthly, switch to built-in program mode, the display's first word on the left show "P" ,the second for the built-in programs and flashing, press "B" to modify the built-in program 0-9, "A" for the standby.

    ● press "A" fifthly, the third digit glinting, press B to modify the built-in programs.

    ● press "A" sixthly, switch to DMX node again, return to step 1.

3. Built-in Program details（Pr- -）

    The built-in program set as a master send out synchronization signals and make the slave synchronous with it. The Slave must be set in DMX mode and the address code should be A001, only set this can take over the signal of master. The Master outputs controlling signal, and Only one light can be set as a Master and others are slaves.

    ● "P11-P19": Red dimmer. Operate as: press "A" until the last digit glinting then press "B" key to change red dimmer (0-9, 9 is the brightest)

- "P21-P29": Blue dimmer. Operate as above. (0-9, 9 is the brightest)
- "P31-P39": Green dimmer. Operate as above. (0-9, 9 is the brightest)
- "P41-P49": Indigo dimmer. Operate as above. (0-9, 9 is the brightest)
- "P51-P59": Purple dimmer. Operate as above. (0-9, 9 is the brightest)
- "P61-P69": White dimmer. Operate as above. (0-9, 9 is the brightest)
- "P71-P79": White Strobe. (P71 is the fastest)
- "P81-P89": Auto run built-in program. (P81 is the fastest)
- "P91-P99": Gradual change. (P91 is the fastest)
- "PA1-PA9": is invalid.

4.When the screen flashes, it indicates that in the set-state .If you do not press any key for 8 seconds, the state will saved automatically, and when you turn on the lights next time will show this state.

8.Operating Control Instruction

➤ **Master/Slave**

Master：The master should always work as a master as long as it is not set in a DMX mode whatever other modes it is.   And it send out the signal so that the slave synchronous with it. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters (20 lamps) ,should increase a signal amplifier.
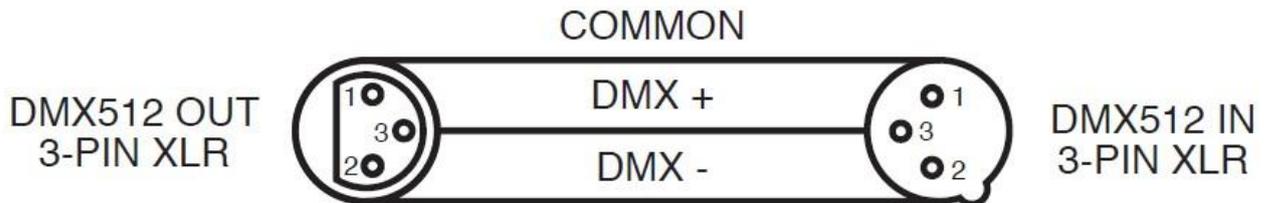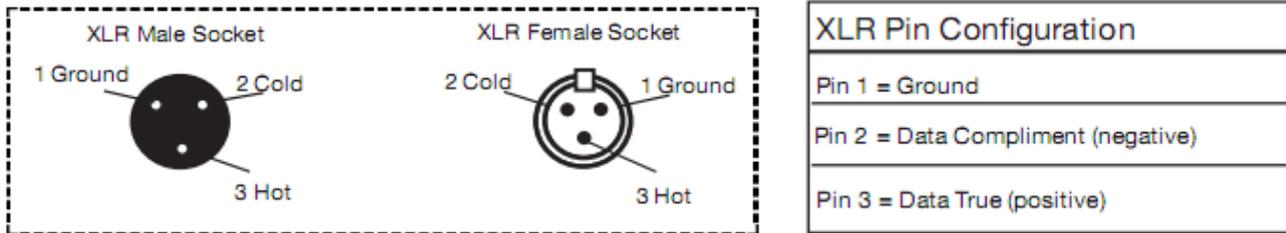

Slave：he Slave must be set in DMX mode and the address code should be A001, to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

Note: This product uses input and output power cord 1 m ㎡ copper core wire, power line in series, when 220V AC should less than 30 lights, and 110V AC less than 15 lights! ! !

9.XLR cable connecting

➢ **XRL cable :**

The stand connection way of the XRL is: one end connect to the male plug ,and the other connect to the female.

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

Noted : In order to avoid failures and interference signal transmission , we connect a resistance120Ω （ 1/4W ）   at the end of the DMX connecting as below:
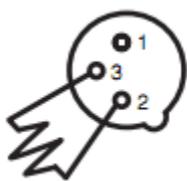
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

➢ The Conversion between 3pin and 5 pin XLR

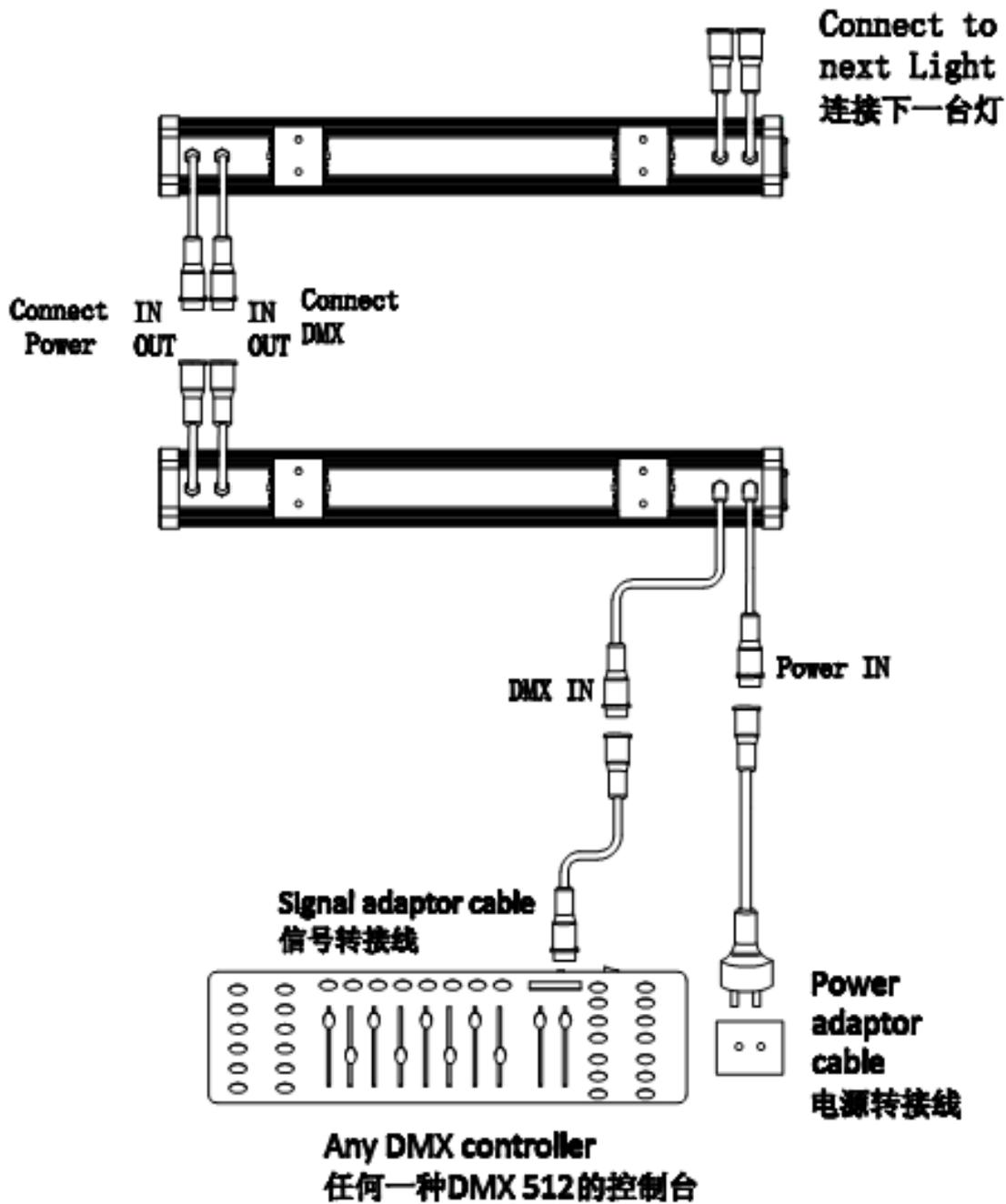If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

10.Connecting picture

➢ Light connecting picture：

Connect to
next Light
连接下一台灯

Connect　IN　　IN　Connect
Power　OUT　　OUT　DMX

DMX IN

Power IN

Signal adaptor cable
信号转接线

Power
adaptor
cable
电源转接线

Any DMX controller
任何一种DMX 512的控制台

11.illuminant list

RGB	3027	1164	561	333.3	218.6	153.3	114.9	85.6	67.4	56.7	Lux
R	1087	444.9	221.7	133.3	90.8	63.1	48.3	35.6	23.5	24.3	Lux
G	1048	396.8	189.1	110.1	74.4	51.2	38.3	28.2	22.4	18.9	Lux
B	964	386.0	186.0	111.6	75.2	51.3	39.1	29.6	28.2	19.4	Lux

Distance 1 2 3 4 5 6 7 8 9 10 Meter

Beam Angle 32°
Field Angle 56°

Luminance Distribution

Equal Lux curve at 1 meter distance, on axis

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12.Problem Analysis

Problem	Checking way
Can not turn on the light	◆ Check the power source plug is in normal or not ◆ Check the switch of the lights is off or on ◆ Check the fuse if in normal
DMX can not control it	◆ Check the DMX cable is connect to the lights or not ◆ Check the DMX512 controller work in normal or not ◆ Check the DMX cable is normal or not ◆ Check if the lights is in DMX mode（A001）
Display not bright	◆ When connect to the electricity，did the led flash one time? If so，the power source is normal; If not，please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
LED not light	◆ When connect to the electricity，did the led flash one time? If so，the power source is normal; If not，please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
	◆ LED is connect by leds in series first, then connect parallel, so please check if the leds is loose

Some of the LED not light	◆ Use the multimeter to check if the led is bright or not, of not, please change the led ◆ check whether current limiting resistor is normal or not ◆ Check constant current IC is normal or not (compared with the normal IC)
Single color leds always bright/not bright	◆ Check the switch of this color is normal or not ◆ Change the IC control board

Noted：only professional persons can do as above！

13.Technical Specification

- Input voltage：AC 100V-264V/50-60HZ

- Consume：35W

- Lamp Type： LED(3W)

- Lamp Spec：3-in-1（9PCS）

- Life span:50000-100000 hours

- Control mode：stand alone/ master and slaver

- Channel： 13CH

- Beam Angle: 25°

- Anti-electricity intension：1.5KV

- Insulation Resistance： > 2 MΩ

- Size:：592*79*100mm

- Net Weight：2.3KG