LED CITY COLOR

User's Manual

Thank you for choosing our product, please carefully read this manual and operate it obey the specification in order to make sure you can correct and safety installing、operating and maintaining it; We will not take any responsibility for the damage and body injury which caused by the abnormal operation.

Preface

LED CITY COLOR this item is adopted the streamline design in appearance and advanced processing technology with the mixed color R G B, and it has anti–UV function, besides of its low consumption and environmental protection. It can be used as background screen in the stage, and it is applicable to the park theme, cultural heritage, bridge, castle, hotel, skyscraper, resort and so on.

For your safe and ideal usage, please read manual carefully and operate strictly according to the rules to avoid the damage to the body or light before using this machine. Please mind to get and put the light, and check if there is any damage of the light in the delivery. And check the spare parts as follows:

Signal wire:2 pcs
User's Manual:1 purchase

Function and feature

□This item is adopted R G B LED light source, 120 pcs, and R 40, G 40, B 40, the single LED beam angle is 40°

● Advanced monochromaticity, various color. The color saturation is more than 90%, which makes the light more flamboyant.

● Long life and anti–seismic. The life can reach 50,000 h under the rated operating condition, and the brightness reduces 5% after 1000 h work. LED is a semiconductor device, which can decrease the maintenance costs because of low failure rate and high life expectancy.

● High efficiency, low consumption. LED light source does not need filter which can go off red, green, blue and other colors directly and no color loss. It is in high electronic–optical conversion efficiency.

● Multi–changing: R G B can adjust the light with 0–255 system which can be made of different colors.

● It is good at environmental protection. There is no ultraviolet and infrared ray in the spectrum, the heating and harmful radiation is extremely low; simultaneously dazzles slightly, as not including the mercury element, it can be touched safely, it belongs to the green illumination cold light source.

□Four LED nixie tube demonstration, it is easy to cut over between kinds of modes. And it is available to set the mode at work such as DMX, strobe, dimming, sound control, master, slave, manual and so on.

□It is adopted the international standard DMX signal, which is compatible with kinds of dimmer.

□It has the function of the memory when the power fails at the parameter of the mode, address, speed, slave and master and so on.

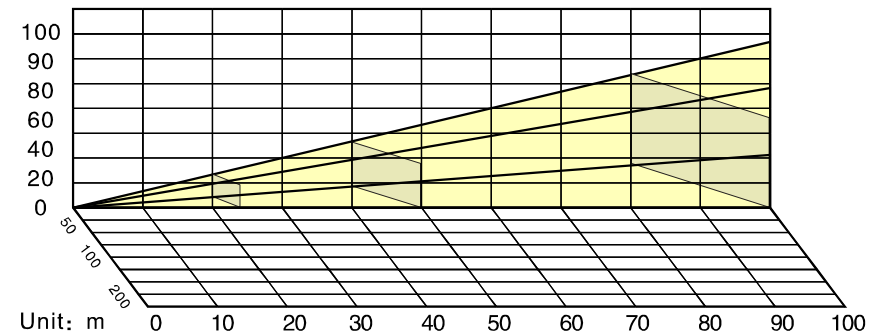□The function of the time–measure to start and close.

□IP54

Installation

□Please confirm that the power is matched with the voltage marked in the light before installation.

□It is necessary to be install by the professional stuff, fix the light safely, and adjust it in the suitable shooting angel, please make sure there is no explosive materials more than 0.5 meter around.

□This item is applicable to outside and inside, the environment temperature less than 35℃

□It must be in good ground connection.

The speed of light projection scope computation as the diagram:

Unit：m

Test distance	Spot diameter	Color blending luminance (white light)	R	G	B	Remark
1M	1.6M	2320 ~ 26000	4160 ~ 4490	8300 ~ 10100	10000 ~ 12100	
3M	3.0M	3510 ~ 3680	580 ~ 667	1260 ~ 1407	1540 ~ 1726	
5M	4.2M	1250 ~ 1368	225 ~ 253	496 ~ 522	608 ~ 645	
10M	17.0M	344 ~ 396	67 ~ 75	128 ~ 151	157 ~ 185	

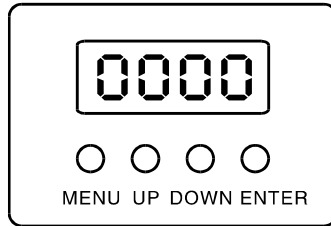**Remark: Light luminance: Lux, single LED lens angle: 40°**

Caution

□Please operate as the rules strictly, and do not disassemble it arbitrarily, please ask the professional stuff to mend if there is anything wrong.

□Fix it stably, to avoid the light vibrating and hitting intensely, and please do not use it under the vibration.

□Prevent other materials entering the light, to avoid the damage.

□Check the plug and the power wire if fixed before power on.

□Please make sure the exhaust passage no any obstruction.

□Please do not pull the power wire strongly.

□Mind the shock at the second delivery and it is better to use the original package.

Warning

□Please make sure the power off before the installation and mend.

□Please do not stare at the light source; otherwise there is damage to the eyes.

□Our company will take no any responsibility if there is the damage or accident when you operate disobeying the rules.

Menu instruction


```
0000
○  ○  ○  ○
MENU  UP  DOWN  ENTER
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The board as the picture

Press"MENU"to cut over all levels menu.

☐DMX address set, "dxxx", e.g. d0001the address is 001.
 Press "UP"、"DOWN"to adjust (001~512), and press"Enter"to save.

☐Working mode set,"A-xx", e.g. A-00receive DMX signal, and can be controlled
 by controller; (A-01A-22)Auto run, dimming, strobe, sound control. More infor
 mation in the attached file 2

☐Auto-run speed set,"Pxxx", it is can be adjusted the brightness, speed and so on,
 when it is in the auto run, dimming, and strobe. More information in the attached file.

☐Restore to the factory default,"LoAd", Press"Enter"to load the factory default,
 and then set the new parameters you need.

☐Time control set, display"t on"or"t off", press"UP" and "DOWN" to change mode,
 then press "Enter" to conserve, and enter time setting.

●When displaying "t off", enter time setting of closing light, when the time meets
 the time that has been set, the light will close automatically until the start time
 of next period

●When displaying "t on", enter time setting of starting light, when the time meets
 the time that has been set, the light will begin to work under the pre-set work
 mode, but make sure the sustain power supply.

☐System time set, display in format "xx.xx", express "hour.minute"

●When change the system time, press "UP" and "DOWN" at the same time, it will
 display "----", then enter the setting state.

●Adjust the system time using "UP" and "DOWN", after setting "hour", press" MENU"
 to change to set "minute", then press "Enter" to conserve.

Technical parameter

☐Voltage:AC100V~240V

☐Frequency:50/60Hz

☐Power consumption:380 W

☐Power:120 LED high brightness and powerful LED

☐Color:R、G、B three basic colors，can be adjustable separately, strobe, brightness
 is adjustable, gradually change

☐Channel:6 DMX control channels

☐Control mode:DMX512 control, program auto-running, master-slave, sound
 control(available)

☐Feature:Auto-running function can be started by time, practical, low power
 consumption, high light efficiency, high safety, multi voltage, wide
 adaptation range

DMX Control channel table

Channel	Function	Value	Specification	
CH 1	Dimmer switch Flash switch	0~7	OFF	
		8~232	FLASH (slow→fast)	
		233~255	ON	
CH 2	Fixed color	0~7	Blank	
		8~20	White	
		21~34	Red	
		35~48	Green	
		49~62	Blue	
		63~76	Yellow	
		77~90	Magenta	
		91~104	Cyan	
		105~118	HotPink	
		119~132	orange	
		133146	LightGreen	
		147~160	SlateGray	
		161~188	LawnGreen	
		189~202	DarkOrange	
		203~216	BlueViolet	
		217~230	Gray	
		231~255	Gold	
CH 3	Dimmer	0~255	R	
CH 4		0~255	G	
CH 5		0~255	B	
CH 6	off	0~19	OFF	
	Auto	20~39	R+G+B [White] gradually change	
		40~59	Red gradually change	
		60~79	Green gradually change	
		80~99	Blue gradually change	
		100~119	Rainbow colors gradually change	
		120~139	Color gradation jump	
	Sound control	140~159	R+G+B[White] Sound control and flash	Note：Sound control function can be matched only under the request of customer
		160~179	R Sound control and flash	
		180~199	G Sound control and flash	
		200~219	B Sound control and flash	
		220~239	Sound control Rainbow colors jump	
		240~255	Sound control Color gradation jump	

[Auto-running menu setting specification]

Enter A-xx menu

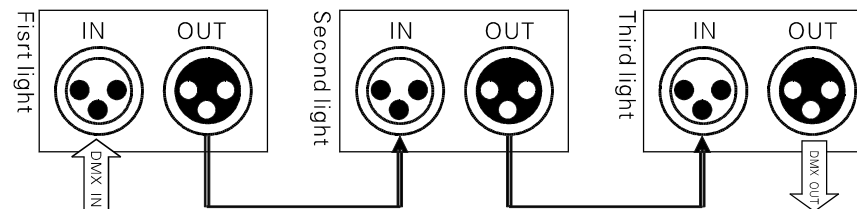| Function	Menu display	Specification	Remarks
Flash	A-01	Red	Enter the next menu "Pxxx" 0-255 Adjust (slow-fastfull brightness)
	A-02	Green	
	A-03	Blue	
	A-04	White	
	A-05	Yellow	
	A-06	Purple	
	A-07	Cyan	
Dimmer	A-08	Red	Enter the next menu "Pxxx" 0-255 Adjust (darkbright)
	A-09	Green	
	A-10	Blue	
Gradually change	A-11	Red	Enter the next menu "Pxxx" 0-255 Adjust(fast-slow)
	A-12	Green	
	A-13	Blue	
	A-14	White	
	A-15	Rainbow colors	
	A-16	Color gradation jump	
Sound control	A-17	White Flash	Note:Sound control function can be matched only under the request of customer
	A-18	Red Flash	
	A-19	Green Flash	
	A-20	Blue Flash	
	A-21	Rainbow colors change	
	A-22	Color gradation change	
DMX controller (receiver)	A-00		
Note： Time control mode is only valid in mode "A-01-A-22" (set"t on")			

Operation guide

☐The main character is as following：

  Work under any weather condition.

  DMX address code display.

  Auto-running function (with master and slave light) multi auto program units can be chosen

☐Power:100V-264V

☐Frequency:50Hz-60Hz

☐Power consumption:max 360W

☐The key adopts digital display mode to set the control channel.

☐The equipment adopts international standard DMX512 signal, stand-alone or master-slave control mode is available, many equipments can be controlled with control channel setting.

Signal cable connection

  Connecting the output of master light and the input of the slave light, can use our cylinder 3-pins LXR cable. Connecting the equipments one by one as following:

  When extending the communication cable, the two terminals of the male 3-pins XLR should match 1 to 1, 2 to 2 or 3 to 3 , or the signal is easy to be interrupted. (Note: the pin diameter of the cable is at least 0.5mm, double-pins shield cable should be better)

  It is better to use our 3-pins XLR plug with the equipment when connecting the signal cable to the equipment, please kindly note: all the 3-pins XLR inner lead should not be touched each other or touched by plug.

  The equipment accepts the digital control signal in DMX512 format, connect the signal control socket to the panel recording"IN", then connect the socket "OUT" to the socket" IN" of the next equipment.

  Suggest using DMX signal terminal device when installing, to avoiding damage to digital control signal. Briefly speaking, DMX terminal device is a XLR connecting device, there is a 120д1 W resistance that connecting the socket "OUT" of the last equipment.

Attention

  The equipment has temperature induction device, the fan begin to work when the work temperature reaches 50℃, It stop working when the work temperature is lower than 50℃

Maintenance and Protection

☐Don't clean the cover using alcohol or other organic menstruum

☐Do third class maintenance regularly(including checking the screw, cleaning and so on)

☐Clean the dust and rag regularly, make sure purity.

☐Be careful with the optics component, it is easy to be fragile, don't use liquor to clean, it may cause damage to the plastic cement and the surface.

☐Clean the fan and the channel regularly, to make sure good cooling effect.

☐Clean the cover regularly according to the work environment.