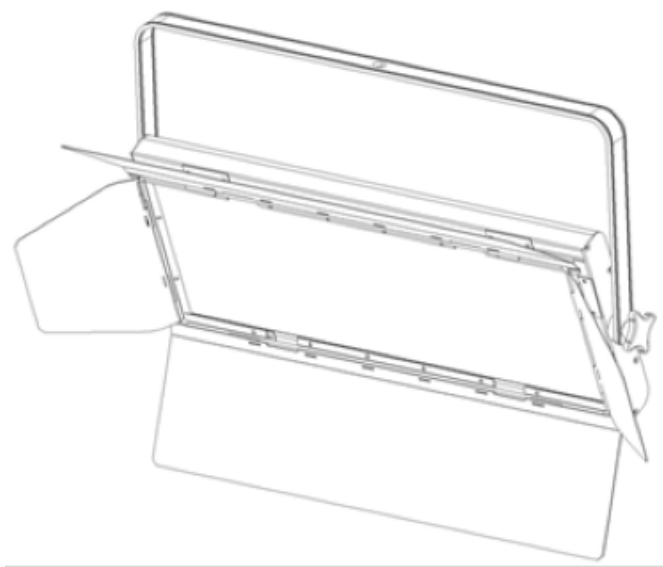


Caution: please read this user manual carefully before you initially start-up

LED CTC Panel Light User Manual



LED CTC Panel Lighting

Professional lighting equipment

Catalogue

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Guarantee card

All products sold by Ilightings are covered by 12 months warranty from the date of purchase. During this period, we will guarantee to keep the goods in repair if a failure occurs under normal operation.

Ilightings assumes no responsibility for the following circumstance

1. Those products that have refitted by the customers;
2. The troubles resulting from customer's careless or abnormal use;
3. The improper installation and the incorrect voltage supply;
4. The damage or faulty performance caused by misuse, improper installation, careless handling or where repairs have been attempted by others.
5. The breakdown and the damage caused by the Force majeure.
6. Without guarantee card;

Ilightings provide paid service for the products which beyond the guarantee conditions.

Customer name : _____

Contact phone No. : _____

Date of purchase : _____

Product model No. : _____

Dealer : _____

Operation, Programming and Safety Manual

1、 Overviews

Thank you for purchasing our product. Before carrying out any operations with the product, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit. Please strictly follow it.

The product conforms to the international standard DMX512 agreement. The products can be controlled in signal use and also can be controlled in many units. Sleek and stylish, precise and accurate optical system design, bring and clear light effects. All above makes our products applicable to be used within the scope of film and television, theater, live events, trade show exhibits, educational facilities, retail environments, and corporate shows, etc.

* The product is compliance with the CE Standard & ROHS Standard.

* The product belongs to Ilightings registered company. the intellectual property is exclusively reserved. We will file a lawsuit on condition that it is illegally copied and imitated.

2、 Packing list

This series of products supply standard carton packaging, flight case can be supply for your requirement.

Do not extrude the plastic parts for avoiding any breaking or deformation.

When receiving the product, please carefully check whether there is any damage caused by the transportation. Check whether the following fittings are attached:

Manual/Certificate

If you need other fittings, please list them in your order.

3、 Product data

Product name : 100w & 200w LED Color temperature-adjustable Panel light

Product features

- 1) High illuminance: close to the traditional tungsten lamp
- 2) Super beam angle: 120° large area irradiation and soft edge of spot. The effect of the spots close to the traditional three-band floodlight which is smooth enough for camera shooting. The beam angle of competing products is 60° which makes the spot with sharp edge, and the spot is

not smooth.

- 3) Good performance of cooling system
- 4) Low power, light weight

Scope of application

The scope of film and television, theater, live events, trade show exhibits, educational facilities, retail environments, and corporate shows, etc.

The scope of major television, HD studio, intelligent HD video conference room, HD intelligent studio, the surface light, top light, side light of multi-function hall, etc.

Product description

Aluminum alloy sheet shell, excellent for the light and thin, simple and sleek, double modular structure, easy handling, maintenance friendly, LED cold light sources, matrix distribution, high-light diffusion plate, soft and smooth light output, no infrared, ultraviolet rays, no glare, better energy saving than the traditional three-band fluorescent Lamp. The double-balance heat conduction technology and natural flow type heat dissipation design are used to export a greater flow of energy effectively with noise free. 120° ultra beam angle ensure the large-area diffused lighting and viewfinder. It can be used as auxiliary lighting applications.

4、 Technical parameters

Power supply : AC90V-120V/200V-250V , 50Hz/60Hz

Light source : Everlight brand High illuminance imported LED chip

Quantity of chip : 3380Pcs (W:1690Pcs, Amber:1690Pcs)

Power : 200W

Optical lens : Dot-matrix compound eye optical system

Adjustable Color temperature: 3000K~6500K

Preset Color Temperature: 3000K、3200K、4500K、5600K、6500K

Color Temperature deviation: $\pm 5\%$

Color rendering index: CRI 85 Ra

Manual Dimmer : 0%~100%

Beam angle: 120°

Control system : 16 Bit dimming, STM32 control chip, DMX512

Max Clock frequency : 72m/Hz

Dimming Frequency : 8k/Hz

Channels : 3CH

Display screen : LCD

Power Connection: Power Con

Working Environment : -20°C ~ 35°C

Life : 50000h

Tilt : $\pm 90^\circ$

Protection class : IP23

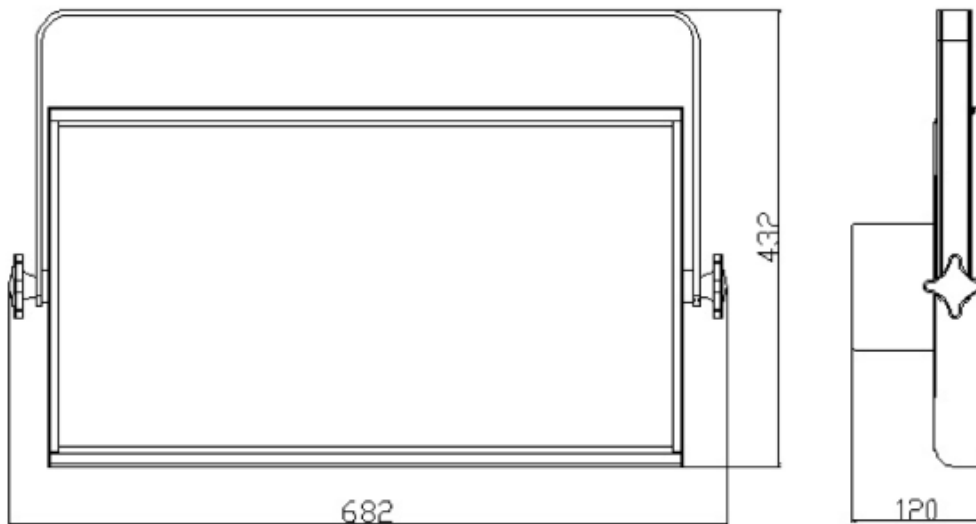
Light barrier : Four-leaf (supply for requirement)

Weight : 3KG

5、 Dimension、 Mappings & Pictures of fittings

Dimension : 682x432x120MM

Hanging installation: screw holes can be installed 12MM



Signal Cannon



Power Connection: Swiss Neutrik Power Con



Display screen : LCD :



6、 Control system description

Lamp power supply & connection of signal line

1、 Connection and control of the lamp power source

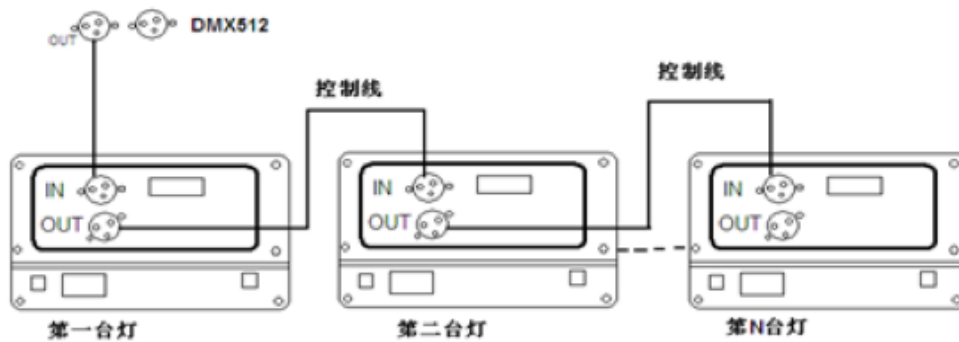
The product uses 1.5 SQMM copper core cables to be the input line for power supply. When connecting the power line, the maximum of connecting lamps is 12 under voltage 220V; and the maximum of connecting lamps is 6 under voltage 110V.

When using the DMX console, the length of wire between console and the lamp, and the length of wire between the lamps should not be longer than 60 meters. There must be signal amplifier when the length of wire is longer than 60 meters.

2、 Connection of the lamp signal line

This LED lamp receive digital signal in DMX512 (1900) format. It can work in either the master or slaver mode under EDIT and self-propelled mode. The master-slave mode also connects by DMX line. Using the cylindrical 3 core XLP cable provided by the manufacturer, connect the XLR-XLR control line from the DMX controller output port to the DMX input port of 1st lamp, then from the DMX output port of 1st lamp to the DMX input port of 2nd lamp, etc. Until all the lamps are connected in a chain. Finally insert the loop into the DMX input port of last lamp for complete the connection.

Diagram of signal connection



7、 Operating instructions

1、 Display screen : Menu items and indication function



2、 Functional setting and operating

Please press (MENU) for setting. Use the (UP) and (DOWN) to select required address. Press (ENTER) to go to the next menu or confirm. Press (MENU) to return to previous menu. To change the function, please get to the bottom of the menu and press (ENTER) .

3、 Signal functional instruction

MENU	selection
UP	advance
DOWN	return
ENTER	confirmation

4、 DMX IN/DMX OUT: DMX512 input and output connection

5、 POWER IN/ POWER OUT: input and output connection of power

The characteristic of control system:

16 Bit dimming level: Comparing to the 8 Bit dimming, the changing of the light is more soft and delicate. The precision stabilizing control chip STM32; the international signal protocol DMX512.

Maximum clock frequency : 72m/Hz ;

Output frequency : 8k/Hz ;

Main function menu :

Details				
First level menu	Second lever menu	Third lever menu	Optional Value	Notes
DMX	DMX address adjusting		0-512	Channel initial value selection
STAT (static state)	H.000		0-255	R、G、A adjusting
	L.000		0-255	B、W、Y adjusting
SCE (scene)	SEC1--SCE10 (scene 1 to scene 10)	H.000	0-255	Adjustable scene 1 to scene 10 R、G、A (The first color)
		L.000	0-255	Adjustable scene 1 to scene 10 B、W、Y (The second color)
FADE (Dimming delay)	Default 2		0-9	0 denotes stop the FADE.1-9 denotes rising delay.
TEMP (Temperature control)	C.000		0-150	Current temperature
	t.065(Press【ENTER】for adjusting)		0-150	Protected temperature
VERSION (Version information)				Display the current software version

Notes:

- Before entering the screensaver, beyond the non-manual and scene editing mode, the exclamatory mark will glittering in the screen when no signal input;
- For the two-color adjusting, R、G、A denotes the same adjusting, B、W、Y denotes the same adjusting;
- Without any key operation in the 30 seconds, the LCD display board will automatically enter the screensaver. Beyond the non-manual and scene editing mode, the LCD screen will glittering without the DMX signal;
- Version number of the program will be shown when power on

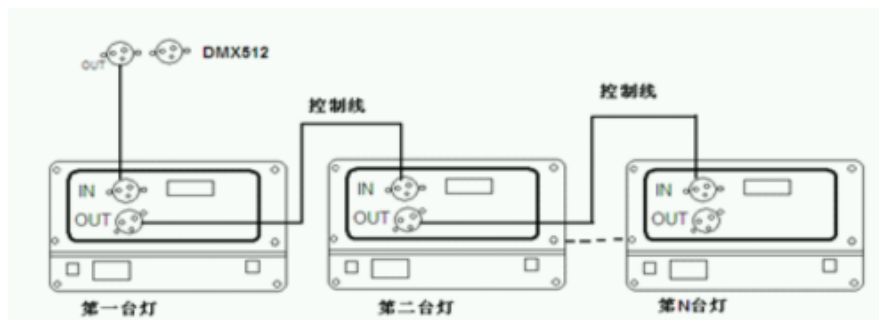
- When the current temperature passes over the temperature protection value, the lamp will slowly reduce to half-power; when the current temperature returns to normal range, the lamp will slowly return to full power;
- Press **[MENU]** for about 3 seconds under **[DMX]**, it can quickly close optical mode selection, press “UP” or “DOWN” to select “YES” to open the mode, “NO” to stop it.

Channel description

CH2 mode function table (2-channels)			
Channel	Main function	Value	Description
CH1	H	0-255	R、G、A illuminance adjusting
CH2	L	0-255	B、W、Y illuminance adjusting

Master-slave model

Connect the control line from the DMX output port of 1st lamp to the DMX input port of 2nd lamp, then from the DMX output port of 2nd lamp to the DMX input port of 3rd lamp, etc. Until all the lamps are connected in a chain. Finally insert the loop into the DMX input port of last lamp for complete the connection. Choose the 1st lamp to function as the master, and run it in the Self-propelled Mode or EDIT mode; other lamps will work as slaves with the same effect, and run them in the Slave Mode or Address code Mode. Note: the DMX input port should not input the DMX512 signal



8、 Safety instructions

1. Maintenance :

The lamp has been passed strict examination before leaving the factory. In order to ensure the normal and safe operation, user must follow the instructions of this manual ;

Ilightings assumes no responsibility for those products that have refitted by the customers ,and the troubles resulting from customer's

careless or abnormal use;

Keep the lamp work under the required voltage, ensure the use of voltage is in the voltage range of technical parameters ;

For using the power line input and output connector, the maximum of lamps is 12 under the voltage 220V; the maximum of lamps is 6 under the voltage 110V. The number of lamps for using the DMX512 input and output signal line is not limited;

Do not install the lights near the heat source to avoid the rising of lamp temperature and affecting the normal use of lamps and lanterns, even damaging the lamp;

Check before use the connection of 110V~220V AC power to ensure that the connection between power supply and switch is good. Please use qualified power plug and outlet;

During move and installation, make sure the device not crashed with metal parts and other tough materials.

2. Warning :

Unqualified person involved with installation, operation and maintenance of this lamp is prohibited

Don't insert other things into the inside of the lamp, so as to avoid anything reaching the part with high voltage, then lead to partial short circuit, or else a fire or electric shock may occur, and then affect the normal use of the product.

Please keep the bulb clean, do not directly touch the bulb glass by hand.

Do not watch the light source straightly for avoid the damage to the eyes.

9、 Notes for installation and operation

1. Installation

(1)Before the location and installation of the lamp, ensure the stability of its installation point, which can hold at least 10 times the weight of the lamp.

(2) Installation method: use one piece of professional clamp , M13 bolts, and our own retaining screw to install; pull the safety chain(distribution or owned) through the yoke or other hanging objects and tighten the fixation screw. Check if there is any wear of the safety chain and loosen of the clamp periodically. In addition, cut off the power supply when remove the lamps to ensure safety. Take the safety rope first, then remove the hanging, and pay attention to the safety of pedestrians below.

2. Notes:

(1) Do not frequently switch the lamp, so as not to affect the service life of the bulb. Try to avoid the lamp to run for long periods of time.

(2) All screws used for installing the lamp and any of its parts should be tightly fastened to avoid the strong jarring or pounding. Don't use the lamp in a jittering situation.



10、 Comparison of common faults

Comparison of common faults	
Problems	Reason and resolution
Lamp not work	1、 Check if the power line is connected 2、 Check if the lamp work under the required voltage
Lamp work, not control by the controller	1、 Check if the DIP starting address code setting is correct 2、 Check if the XLR signal line is destroyed
Master-slaver Mode, the master work, but the slaver not work	1、 Confirm there is only one master connected without the DMX console ; others are in the slaver or address code mode 2、 The Master-Slave Mode has some problems. Check for the connected line
Keys not work	Check if any of the keys does not reset
Low light intensity, brightness decrease obviously	1、 Check if the LED light source at the end of their life span 2、 Make sure the internal and external of the optical system is clean
Beam impure (with halo)	Clean the bulk and lens from impurities caused by dust and oil