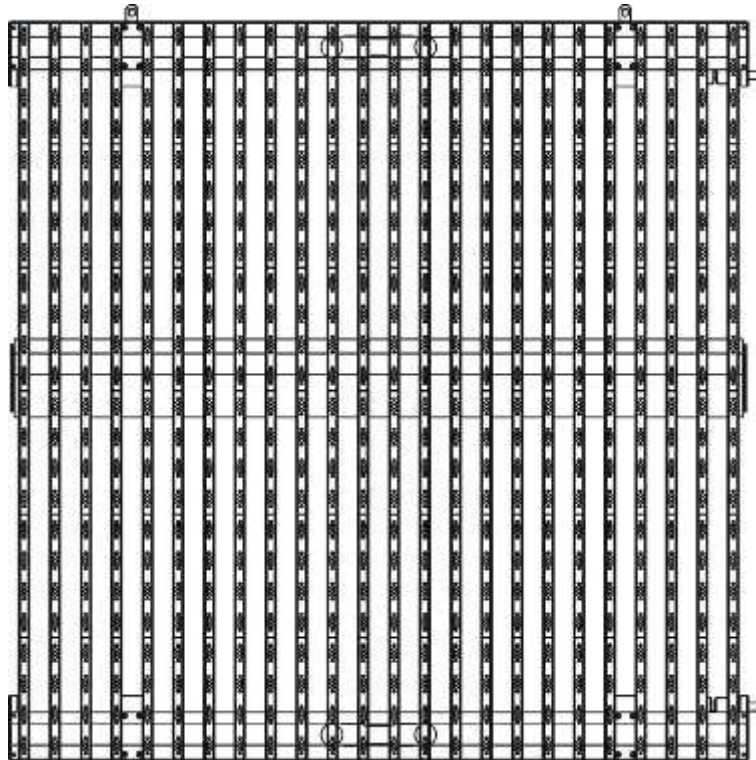




# PROFESSIONAL LED SCREEN USER MANUAL



## SCREEN 37.5

KEEP THIS MANUAL FOR FUTURE NEEDS



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# 1. Introduction

## 1. 1 Brief Instruction

Thank you for having chosen this professional LED lighting.

You will see you have acquired a powerful and versatile device. For your own safety and utilize all wonderful functions of our LED screen, please read this user manual carefully before installing the device.

Every person involved with the installation, operation and maintenance of this device has to

- be qualified
- follow the instructions of this manual

## 1. 2 Package Accessories:

1. XLR waterproof connection cables
2. Power cables
3. Safety rope and this manual

Please check carefully that there is no damage caused by transportation. Should there be any, consult your dealer and don't install this device.

# 2. Features

- Excellent effect: apply dynamic scanning technology, screen with strong brightness, and fine contrast
- Slender and clear image, vivid and multiform video, smooth and living visual effects
- Neat structure: aluminium material, super-light-thin-strong, and good light transmittance
- Easy installation and maintenance: light-thin-strong modular design to make easy movement, installation and maintenance
- Good and stable quality: we use imported light-emitting materials, high-quality IC chip, high-power and noise-free power supply to achieve perfect quality
- Flexible format: can be scheduled with any display mode
- Rich content: can display text, graphics, images, animation, video information
- Big capacity of info: unlimited information display
- 50, 000 hours LED life

### 3. TECHNICAL SPECIFICATIONS

**Pixels Placing:** 37.5MM

**Pixels Density:** 712dot/m<sup>2</sup>

**View Angle:** H145°/V110°

**Video Output:** DVI

**Power supply:** AC100-240V~, 50/60Hz

**Power consumption:** 190W

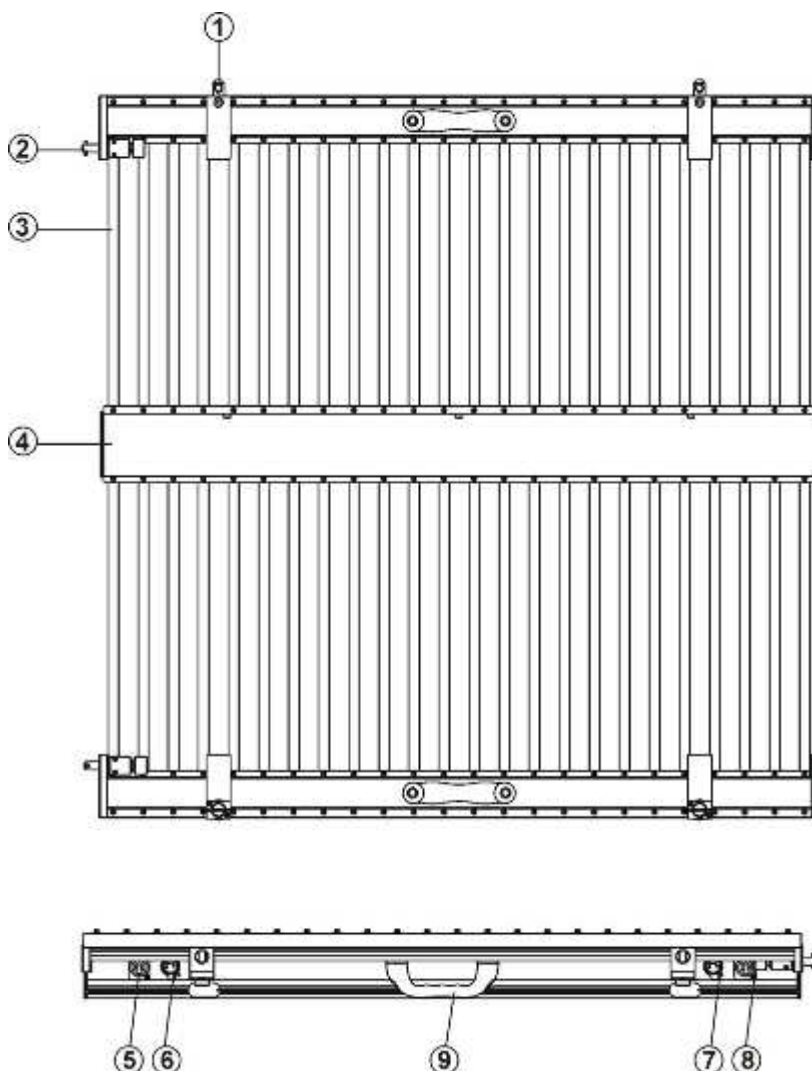
**Waterproof grade:** IP 65(Front)

**Unit Size:** 900\*900\*100MM

**Net weight:** 14KG/ screen

**Gross weight:** 156KG(6 pieces screen & Flight case & fittings)

### 4. Overview



- 1) Safety Fixing Part
- 2) Key Lock
- 3) LEDS
- 4) Panel
- 5) Power Output
- 6) Signal Output
- 7) Signal Input
- 8) Power Input
- 9) Handle

## 5. Safety Info

### 5. 1 Important Safety Caution



#### CAUTION!

Be very careful during installation. Since you will be working with a dangerous voltage you can suffer a life-threatening electric shock when touching live wires

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

#### IMPORTANT!

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Make sure operation after every piece of LED connected properly.
- Make sure that the available voltage is not higher than stated at the end of this manual.
- Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.
- Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Please be aware that damages caused by manual modifications to the device are not subject to warranty. Keep away from children and non-professionals.
- If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

### 5. 2 GENERAL GUIDELINES

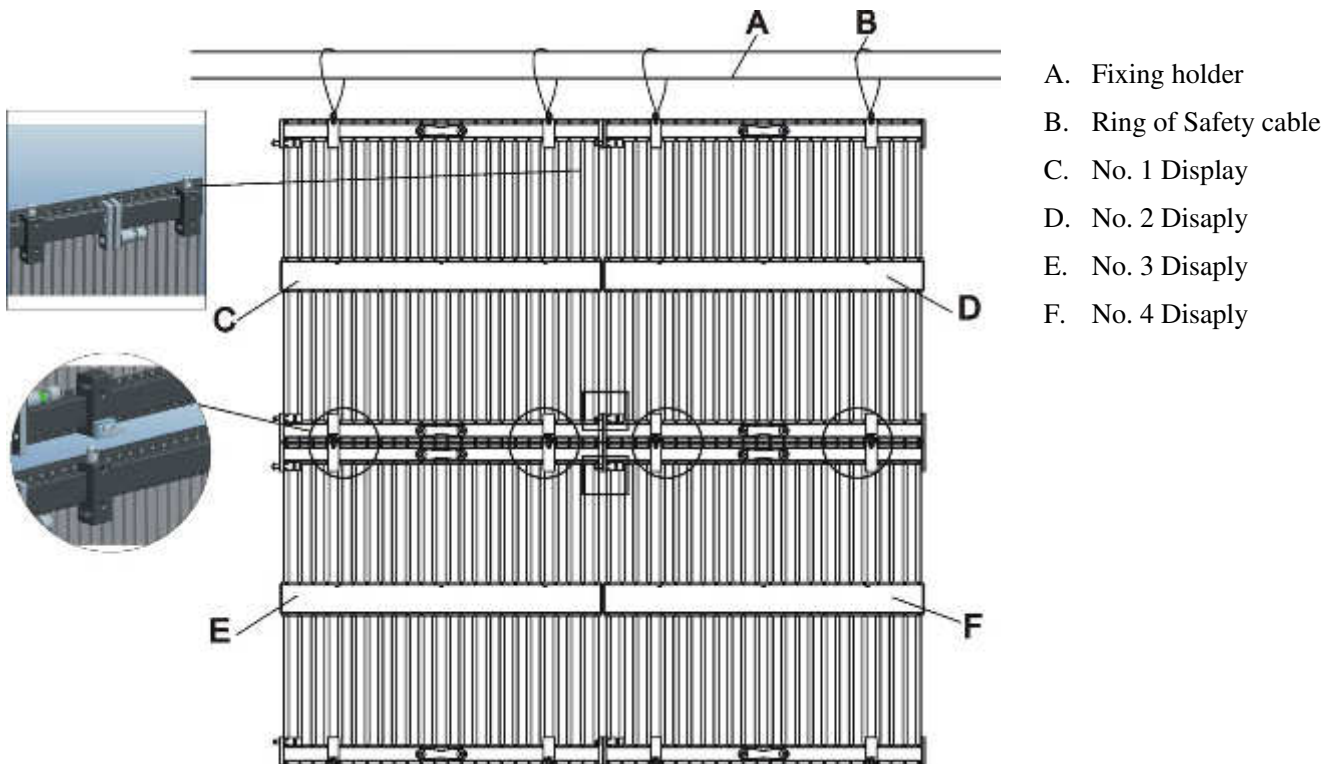
- This device is a lighting effect for professional use on stages, in discotheques, theatres, etc.
- This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in the last page of this manual
- Lay the LED screen carefully, avoid the heavy pressure on LEDs.
- While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust.
- When fixing the device on a raised-from-the- ground support, be sure to insert quick-lock detain in the pre-arranged screw holes, and fix the device with an accessorial safety cable
- Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.
- Please use the original packaging if the device is to be transported.
- For safety reasons, please be aware that device teardown are forbidden.

➤ If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void.

## 6. Installation Instruction

- a). The operating temperature of this device is  $-10^{\circ}\text{C} \sim 45^{\circ}\text{C}$  and moisture within 10%~95%, please use the device not exceed this range.
- b). The installation of the effect has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation, 10pcs LED screen could be hanged.
- c). Never stand directly below the device when mounting, removing or servicing the fixture.
- d). The operator has to make sure the devices are properly connected according to this manual

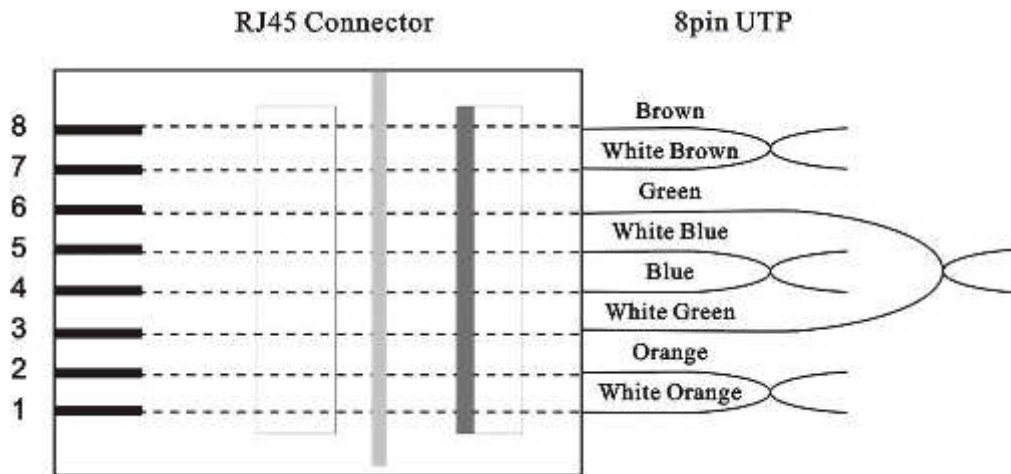
### Installtion Instruction:



**Attention:** make sure that install the display from upper to bottom side

## 7. signal cable standard specification:

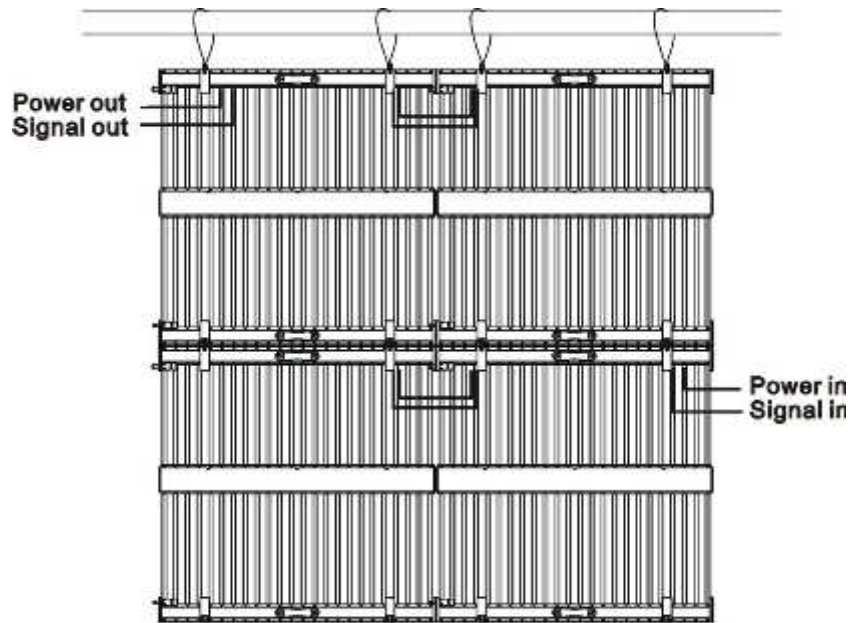
The signal cable is using RJ45 connector and standard TIA/EIA 568B. The sequence for the cables should be as follows (1. white orange; 2. orange; 3. white green; 4. blue; 5. white blue; 6. green; 7. white brown; 8. brown):



## 8. Cable Connections

Connect power supply plug to the external power socket, and the other termination to input of LED display power supply, then input power of the upper side LED connect to output power of adown LED in the horizontal direction.

Connect RJ45 socket to first output of LED screen transmitter, female cannon to 9-pin signal input on LED screen. As noted from the signal output of first LED screen connect to input of second panel, and so on until all display connections finished. The signal cable used must be shielded with two core wires, two separately connected to male and female connectors. See following picture:



**BACK VIEW**

**Please note:** to ensure maximal stability, only eight of the LED screen may be connected together in this manner! From the nine LED screen, please connect to power supply to get power for the second link.

The maximum height output for one controller (one Transmitting Card) is 1280(W)x1024(H) pixels, with 512 pixels high for each port (U port and D port).

There are 24x24 pixels for one LED screen, then one controller can be used for total 2226pcs LED screens (53pcs wide, 42pcs high),

with 2226pcs LED screens(53pcs wide, 21pcs high) for each port (U port and D port)

## 9. Connection of PC and Controller

Connect the video display controller to the DVI connector on PC with DVI cable, then connect the LED screen controller to the USB connector on PC with USB cable, the controller's output cable connect to the vertical input of the LED screen, see following picture:

A. LED Screen Controller

B.Indicator Lamp: indicator the states of the controller.

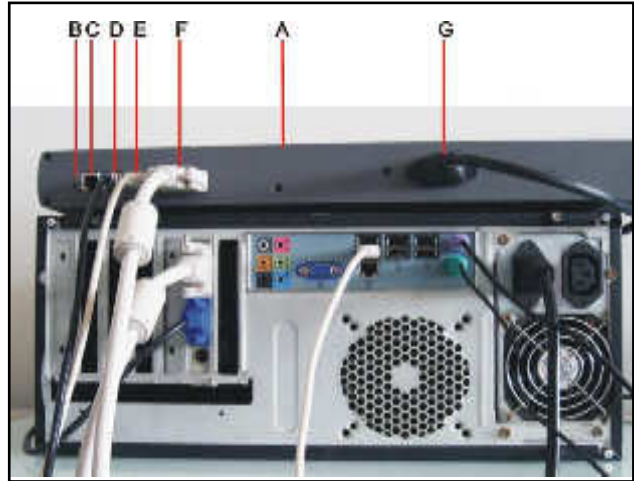
C.U port: signal output port, on the left of the board (nearby the indicator lamp). Connects to the connector on the LED screen.

D.D port: signal output port, on the right of the board (nearby the USB port). Connects to the connector on the LED screen.

E.USB INPUT: connects to USB port of PC.

F.DVI input: connects to DVI port of PC or you can connect it to HDMI port of PC by a cable of DVI-HDMI.

G.Prower In



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