


Holographic Invisible LED Screen Instruction

— Mounting On Glass —



 0755-86269679

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一、Holographic LED Screen

1、Product Introduction

“MUXWAVE” Holographic Invisible LED Screen employs self-developed innovative drive mode and product framework. Under the design concepts of “lighting”, “transparent” and “environmentally friendly”, it takes the design of ultra-low static power consumption as a breakthrough, and it is characterized by ultra-thin, high-definition, high-brightness and high-transparency. It can be installed on transparent glass in modular way. With more than 80% transparency, when holographic videos or 3D videos are played, the product presents a bare-eye VR visual effect. Holographic Invisible LED Screen is widely applied in applications such as urban digital landscapes, brand impressions, digital showrooms, landmarks, etc.

2、Product Specs

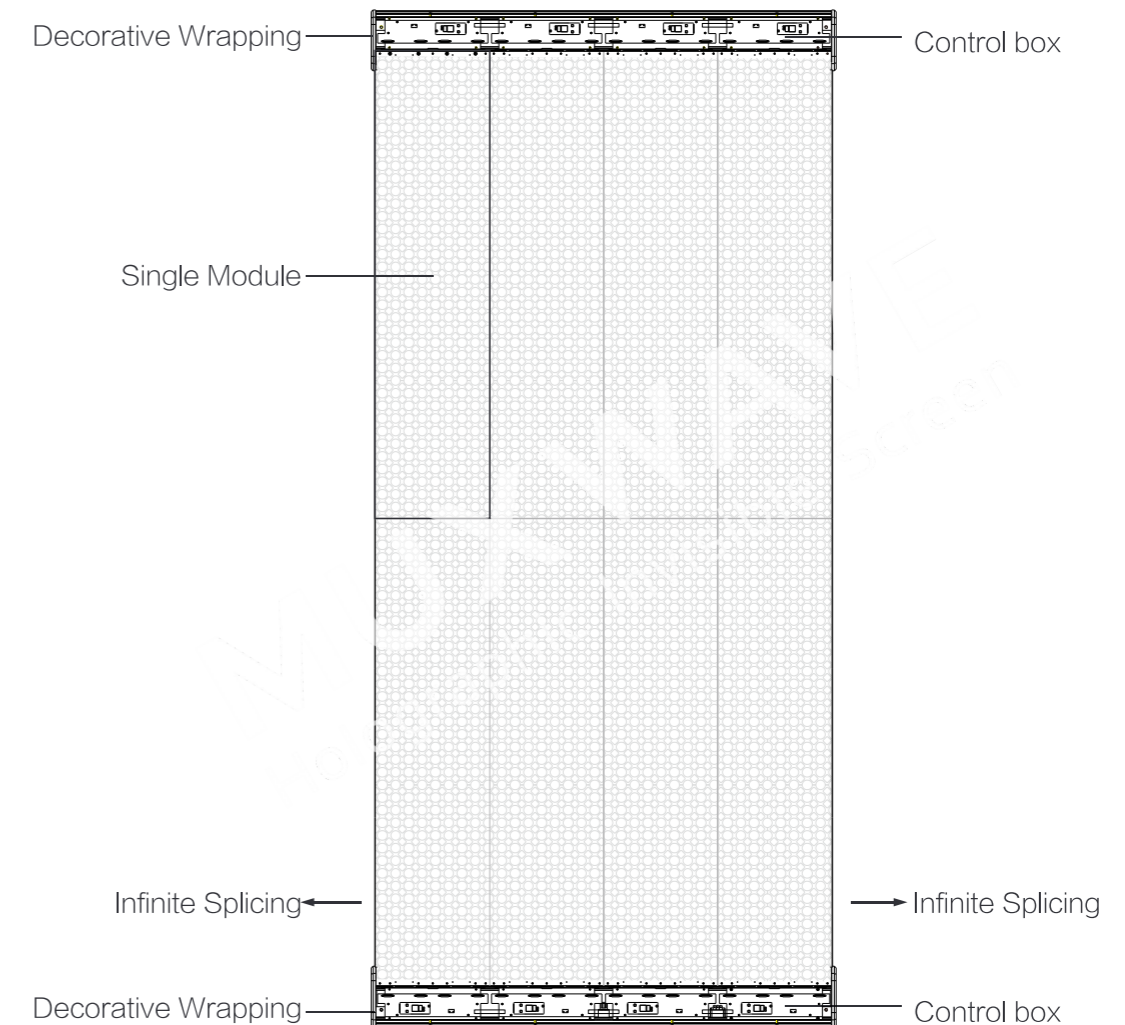
Model	M3	M6
Pixel Pitch (mm)(horizontal / vertical)	P3.91/P3.91	P6.25/P6.25
Pixel Density(dot/m ²)	65536	25600
Transparency Rate	80%	90%
Display Dimension (mm) (w*h)	250x1000/250x1171	250x1175/250x1475
Profile Dimension (mm) (w*h)	250x1025/250x1200	250x1200/250x1500
Resolution (dot) (w*h)	64x256/64x300	40x188/40x236
Brightness(cd/m ²)	≥3000	≥5000
Weight(Kg/m ²)	6	5
Encapsulation Type	Light Board & Driving Board Integrated	Light Board & Driving Board Integrated
Scanning Mode	Static Driving (Single Pixel Single Control)	Static Driving (Single Pixel Single Control)
Lifespan	≥100,000.00 hours	≥100,000.00 hours
Pixel Configuration	16bit	16bit
Maximum Power Consumption (w/m ²)	1000	1000
Average Power Consumption (w/m ²)	375	375
Control System	Colorlight / Novastar	Colorlight / Novastar
Input Voltage	AC100~240V 50/60 Hz	AC100~240V 50/60 Hz
Working Voltage for Module	DC 4.2V ± 0.2V	DC 4.2V ± 0.2V
Working Temperature	Temperature 0°C~50°C	Temperature 0°C~50°C
Working Humidity	Humidity: 20% -85% (Without Condensation)	Humidity: 20% -85% (Without Condensation)
Storage Temperature	Temperature -20°C~60°C	Temperature -20°C~60°C
Storage Humidity	Humidity: 10% -85% (Without Condensation)	Humidity: 10% -85% (Without Condensation)
Protetion Degree	IP20	IP20
Frame Material	/	/
Installation Environment	Indoor	Indoor
Packing Way	Pearl Cotton+Wooden case/Airbox	Pearl Cotton+Wooden case/Airbox

Statement: The relevant parameters in the table are subject to real-time update, and the data is for reference only.
Upgrade will be made without further notice.

二、Mounting On Glass

1、Mounting On Glass

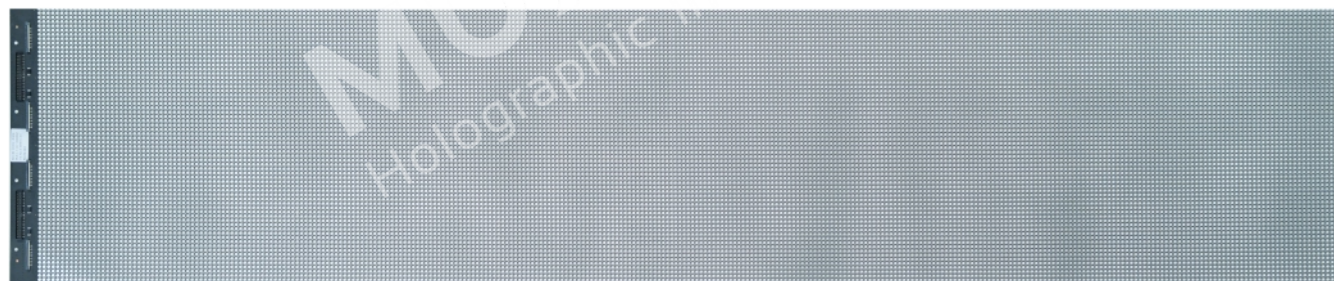
For example, 4 × 2 module splicing, and the installation site should be spliced and installed according to the quantity required by the customer.



2、List of assembly parts



Display Module A



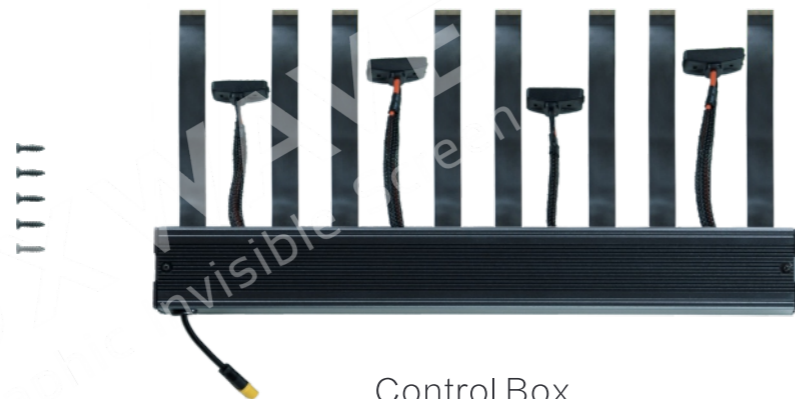
Display Module B

Signal Cable of the Module



Cascade Connection Signal Cable

Screw



Control Box



Transmission Box



CAT-5 Network Cable



HDMI Cable



Transmission Box Cable



DVI Cable



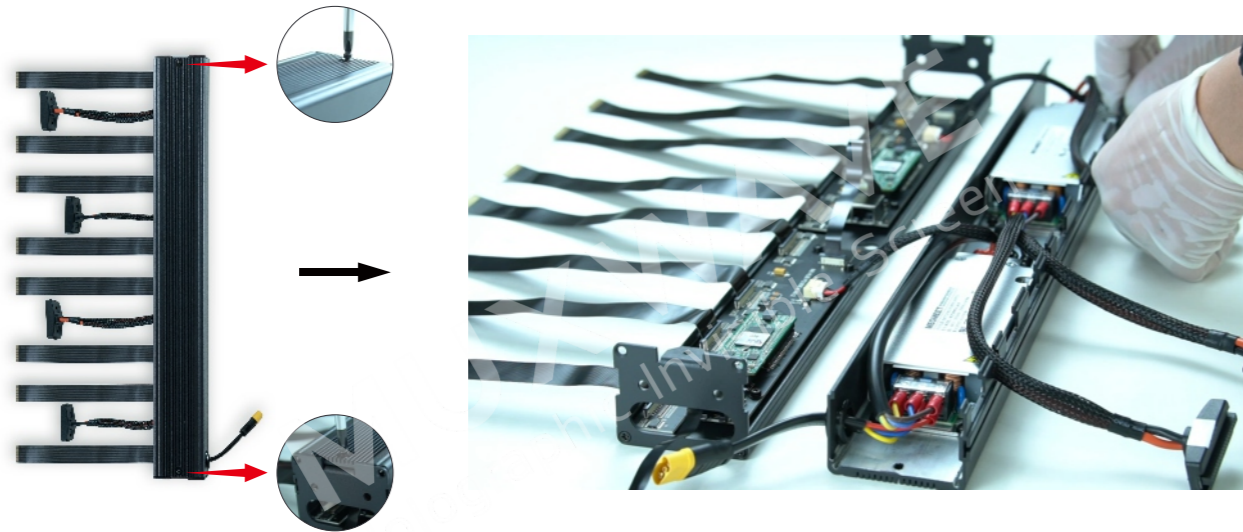
AC Power Cable



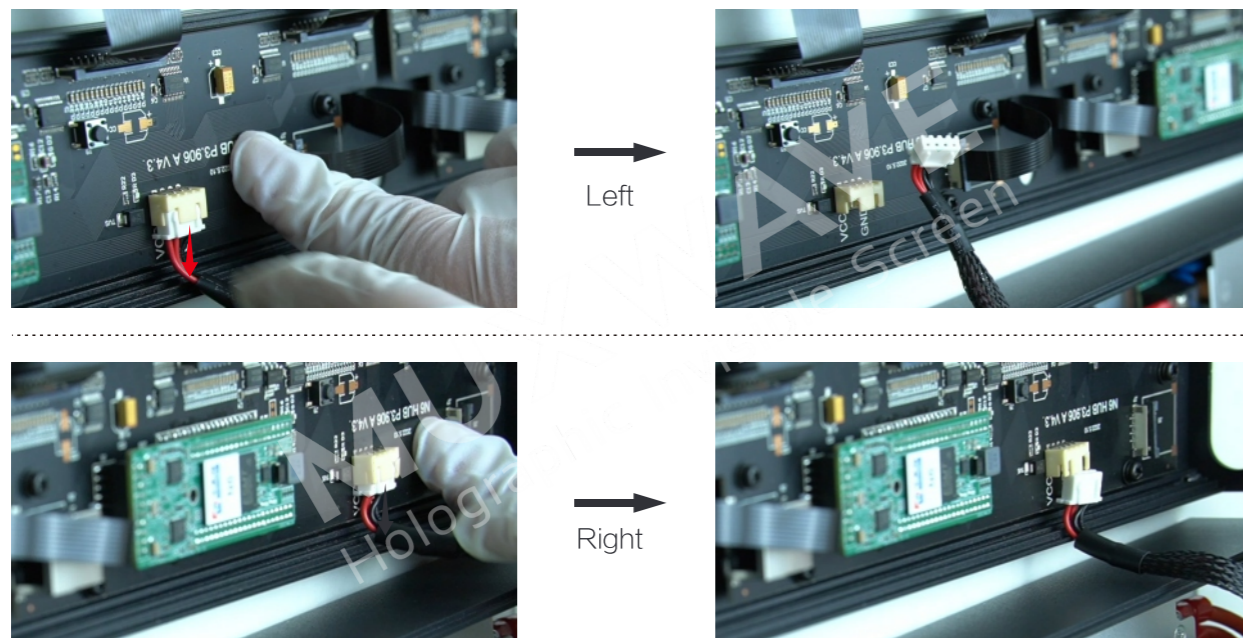
Power Cable

3. Install the control box

Step 1. Open the control box.



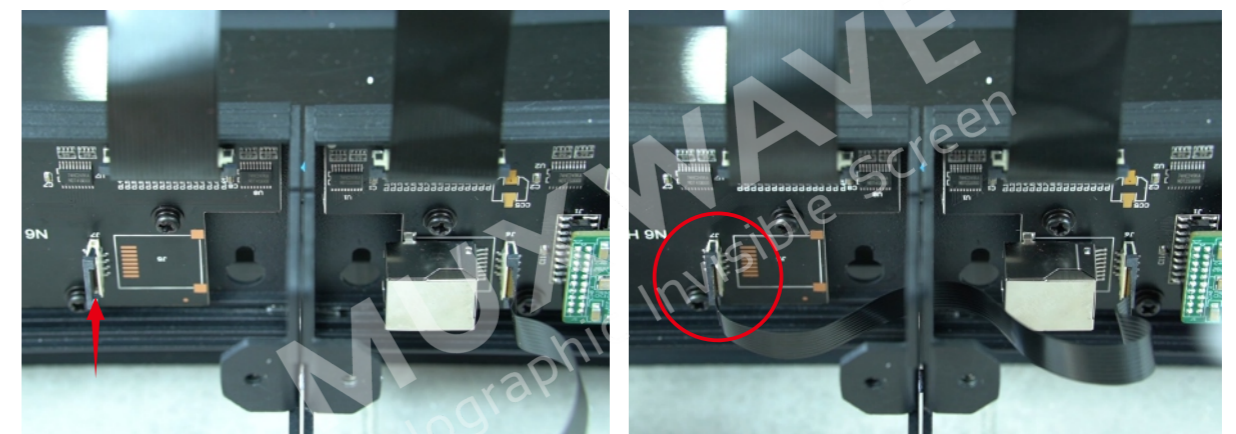
Step 2. Pull out the power cable of the HUB board.



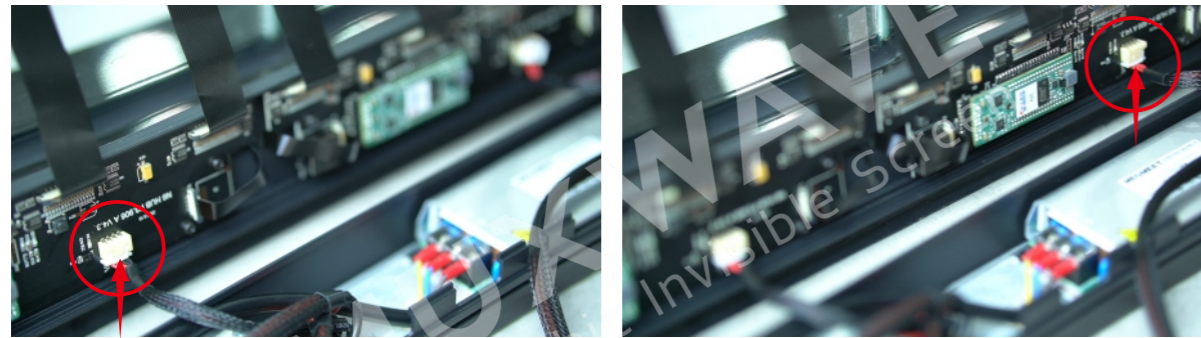
Step 3. Install the control box.



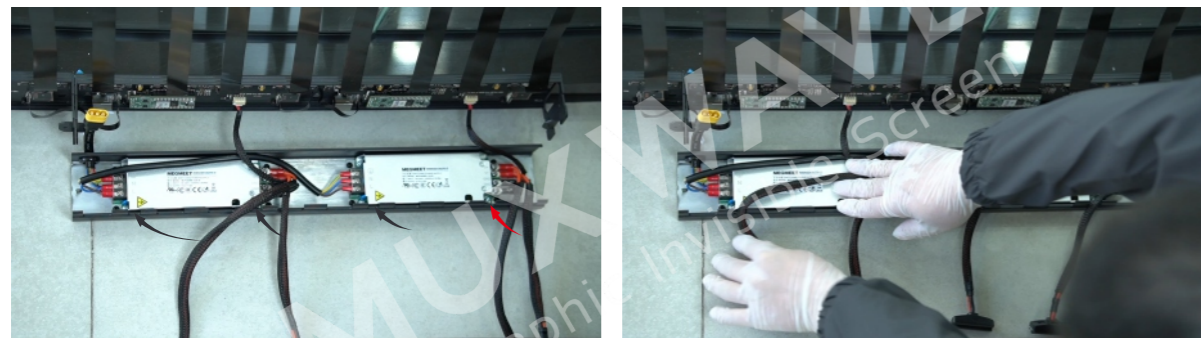
Step 4. Install a 8Pin cascade connection signal cable.



Step 5. Insert the power cable of the HUB board.



Step 6. Sort the cables.



Step 7. Close the control box.



Step 8. End of the installation of control box.



4、 Paste the display modules

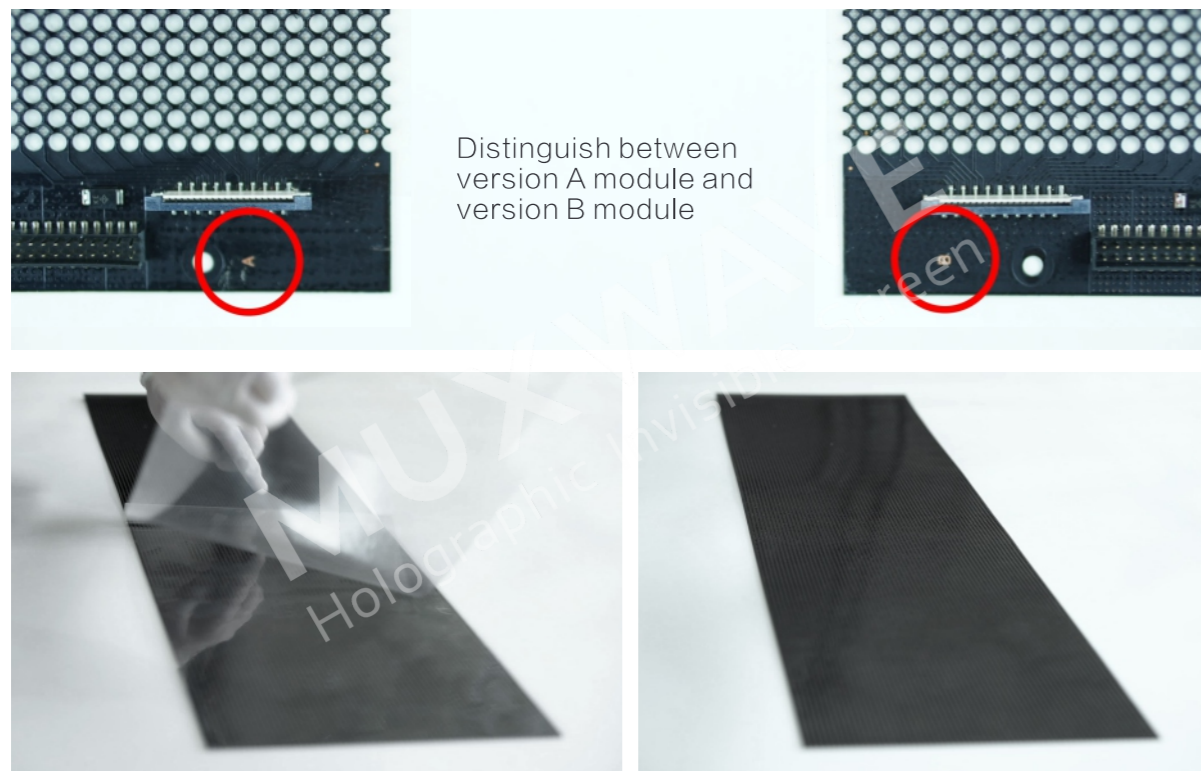
Step 1. Clean the glass.



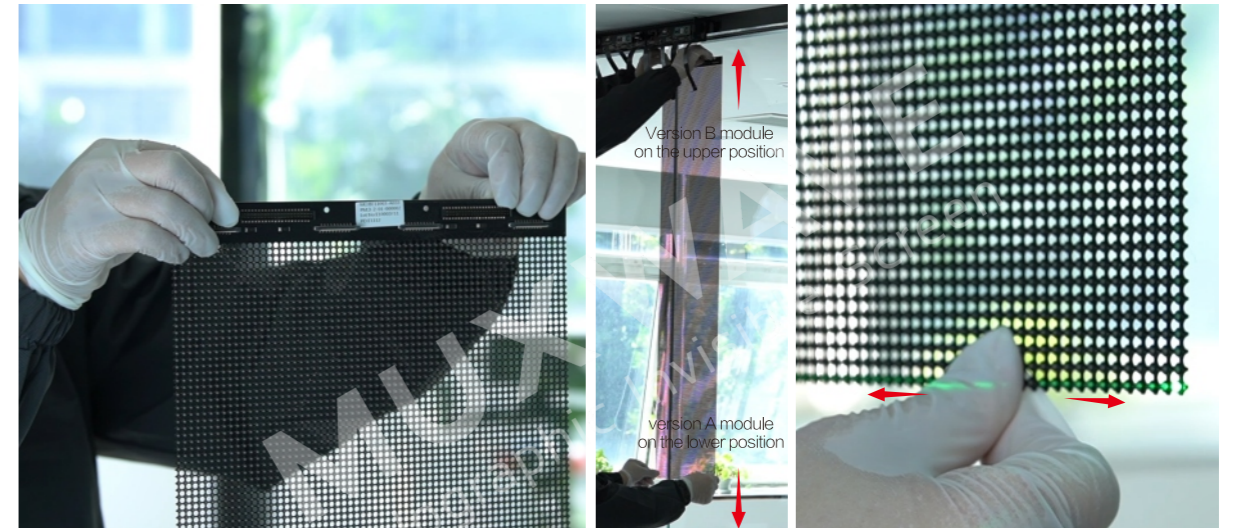
Step 2. Make a horizontal line on the installation position.



Step 3. Remove the protective film from the module back.



Step 4. Avoid edge or corner damage while getting the module.
Align with the horizontal line.



Step 5. Make version A module and version B module align with each other.
Press the modules gently to paste them.



Step 6. End of pasting of all the modules.

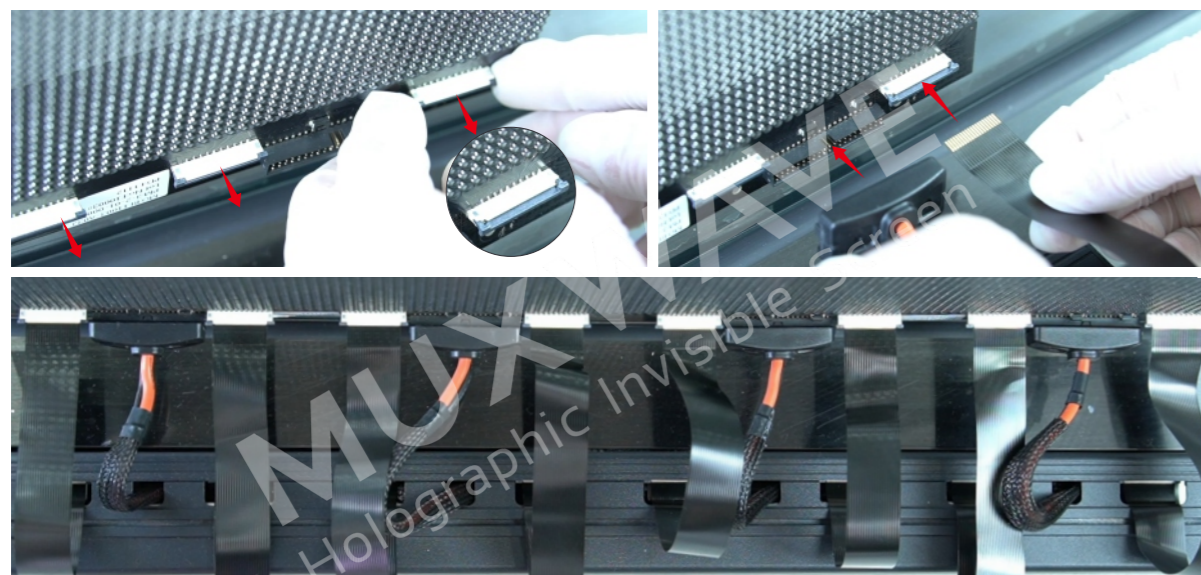


Step 2. End of installation of signal cables and power cables of the modules.



5. Connect the cables

Step 1. Insert the module signal cables and the module power cables.

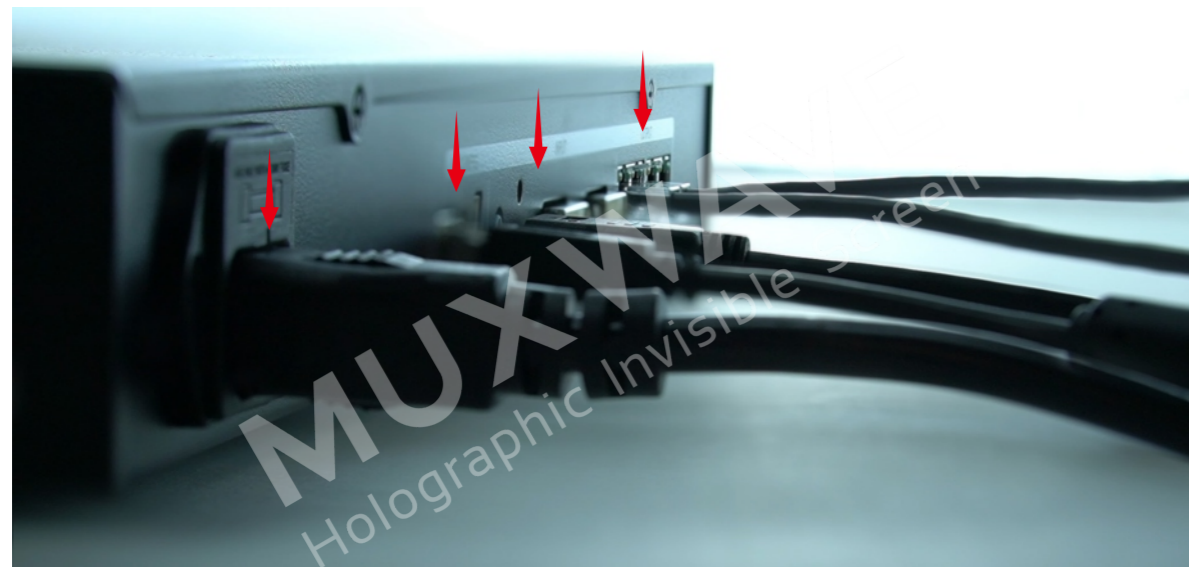


Step 3. Connect the AC power cable of each control box.

Insert one end of CAT-5 network cables into the upper and lower control boxes respectively.



Step 4. Insert the other end of the network cables into the transmission box.
Connect the HDMI cable and the debugging signal cable to the transmission box. Connect the power supply of the transmission box.



Step 5. Connect the HDMI cable and the debugging signal cable to computer.
Debug the transmission box.



Step 6. Make a decorative wrapping part to fit the installation position.



6、Debug and light up.



三、WI for Dismounting

1、 Important safety instructions

- Please abide by all electric safety standards on the site;
- Please connect the product to a piece of power supply equipment with a professional measures against electric leakage and power failure;
- Please transport, use and store the product under the wanted temperature and humidity;
- Please keep the product from liquids;
- In maintenance, please clean the product surface with clean soft cloth with a little neutral cleaning fluid;
- Please use the specified accessories and have them installed and repaired by professionals;
- Never do hot-line work when dismantling the product.

2、 Tools for product dismantling



3、 Flow chart of product dismantling

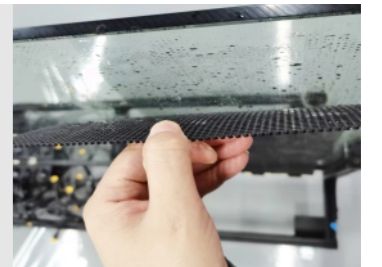
1 Spray the distilled water onto the product

Spray the distilled water in the watering can onto the product evenly. After spraying, have the product stand for 5 minutes (or a longer time whenever necessary) and then dismantle it.



2 Dismounting the product

When dismantling the product, lift it gently from one corner (making the lifting angle 30° at most) and then dismantle the whole product slowly. Do not pull the product forcedly.



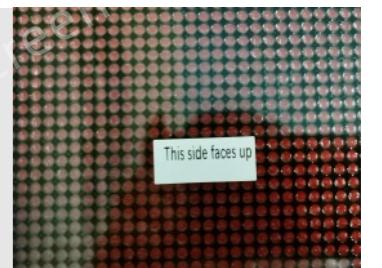
3 Dry the product

Dry the distilled water on the product with an air blower to keep the lamp beads of the product from moisture, otherwise the lamp beads will have shorter lives.



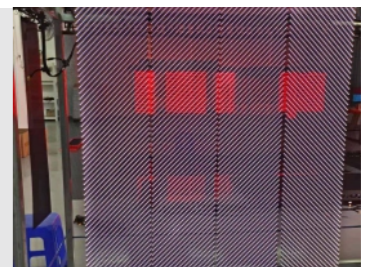
4 Paste release liner onto the product

Paste release liner onto the product, paying attention to its direction. The side with a sign reading "This side faces up" has no release liner and should face up. In installation, reserve and protect the release liner for use in dismantling of the product.



5 Handling after aging

Scan the aged product for 2h to fully preheat and dry it for the best effect. Use the product when its brightness is normal. Aging completely in white is not allowed. If the aged product has any fault, repair it normally.



四、WI for Maintenance

1、 Important safety instructions

- It is suggested to wipe the display screen after maintenance below 50℃ with a proper force with a small brush with alcohol (dehydrated alcohol);
- The maintenance temperature should be subject to the applicable standard; the heating should last for 30s at most;
- Keep sharp articles from the colloid in the maintenance; the lamp bead's surface without pins should be clamped;
- In the case of any jump wire in the maintenance. It is suggested to paste words “Distinguish carefully” in the maintained position after the maintenance;
- Please fill out the maintenance record truthfully.

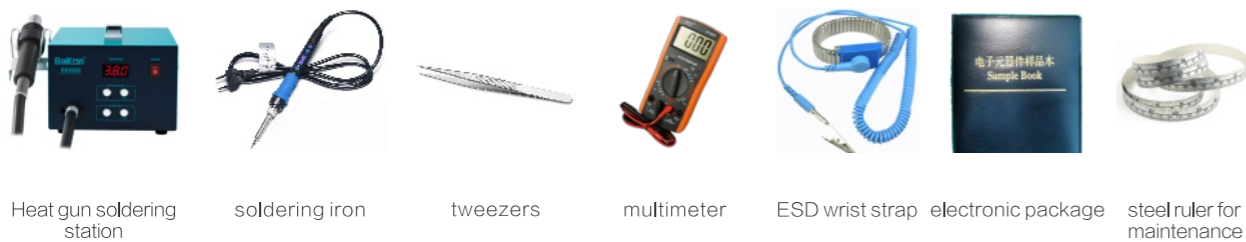
2、 Purpose

To specify the maintenance requirements for display screens to ensure high quality for display screens.

3、 Scope of application

Maintenance and after-sales service of display screens.

4、 Tools

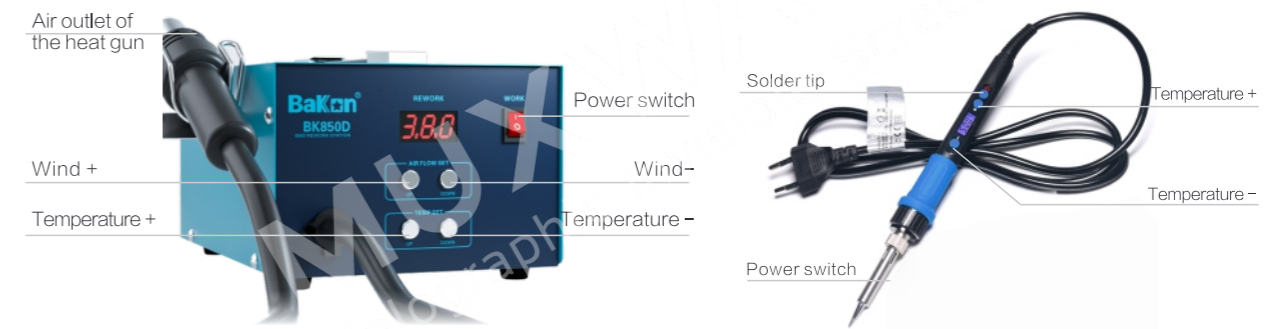


5、 Temperature

Heat gun: High-temperature solder paste: $290 \pm 20^\circ\text{C}$;
low-temperature solder paste: $240 \pm 20^\circ\text{C}$; Soldering iron: $350 \pm 20^\circ\text{C}$

6、 Procedure of maintenance

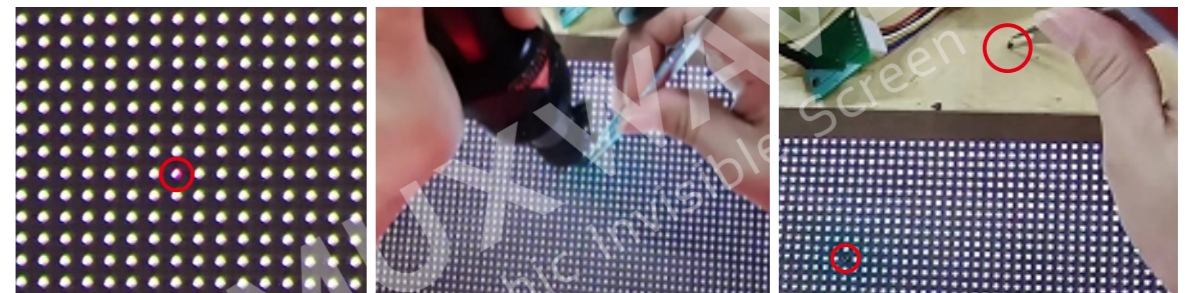
01. Heat gun/soldering iron



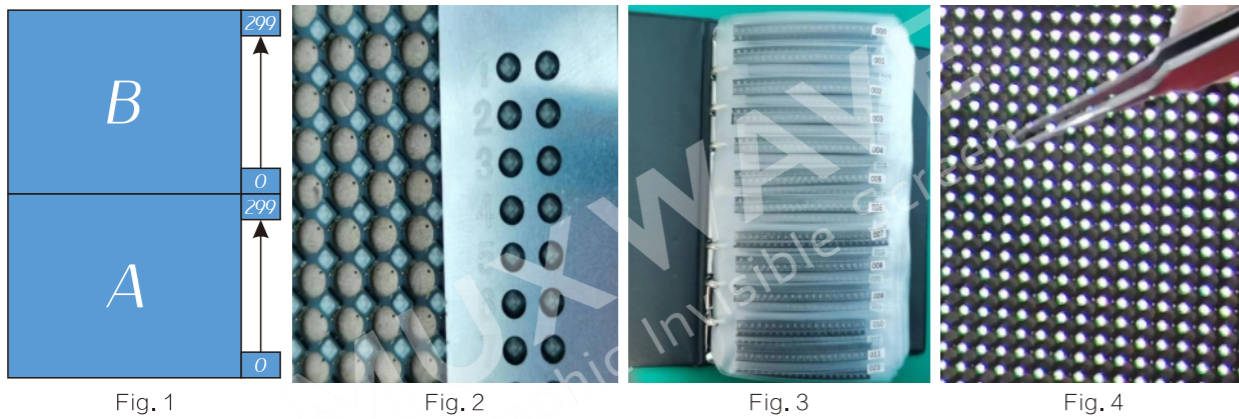
02. To avoid damage of the lamp bead in the maintenance, please make the heat gun soldering station temperature ($240 \pm 20^\circ\text{C}$) (for low-temperature solder paste). For high-temperature solder paste, please make the heat gun soldering station temperature ($290 \pm 20^\circ\text{C}$), and use the wind of level 5. See the following figure.



03. As shown in the following figure, lock the lamp bead to be maintained, move the heat gun to a position 5mm from the lamp bead surface and remove the lamp bead.



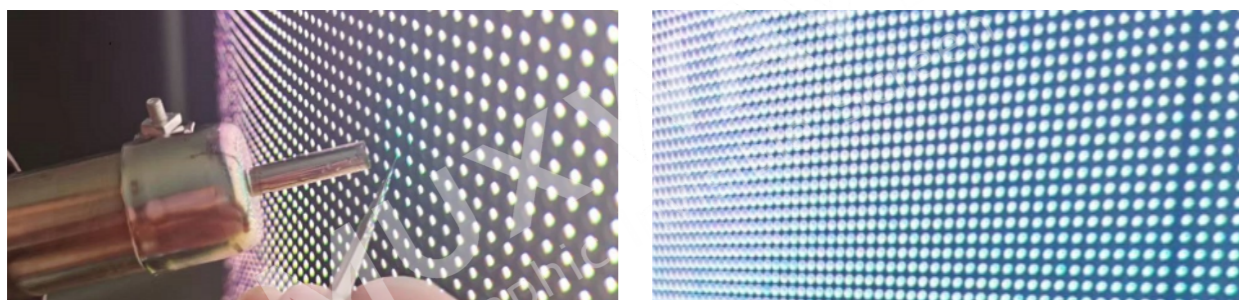
04. On display screens A and B, the lamp beads are arranged from bottom to top: 0-299 (1.2M board) and 0-255 (1M board), i.e., 0.1.2.3....298.299 (Fig. 1). Put the steel ruler for maintenance onto the lamp bead to be maintained (such as lamp bead 1, as shown in Fig. 2), find the corresponding lamp bead (such as lamp bead 1, as shown in Fig. 3) in the electronic package, validate the direction for the lamp bead and weld it to the display screens. See Fig. 4.



05. In the maintenance of a large hung display screen, please paste a piece of heat insulation paper (high temperature resistant paper) on back of the PCB board to make the maintenance convenient. See the right figure.



06. Repeat the contents in sections 02、03、04 to finish the maintenance. See the following figure.



五、Cautions

1、Precautions for LED holographic screen products.

- Follow the operation steps in this Manual, and read the Product Manual carefully before using our products;
- Transport and install this product with care to avoid collision or vibration. Improper transport and installation will cause damage to the LED holographic screen;
- To prevent the product from scratching and damage, do not scratch the LED holographic screen panel with sharp and hard objects.

2、Use and maintenance of display screen.

- Assign professional and technical personnel to inspect and maintain the system by implementing regular (monthly) on-site patrol inspection;
- Avoid using this product in an environment with high temperature, high humidity, high acid and alkali;
- To protect the product against damage, avoid violent collision during handling;
- Do not use the product for a long time in places with too high ambient temperature or poor heat dissipation;
- If water enters the screen due to various reasons, cut off the power immediately and do not use the product until all components in the screen are dry;
- During power supply, check the terminal position to prevent wrong connection;
- Check the lines regularly to protect line interface against loosening and insect bite.

3、Important safety instructions.

1. To avoid possible danger, you are required to use this equipment according to regulations. In case of damage, non-professionals shall not open the equipment for repair without authorization, and shall contact our after-sales service in time.

2. Warning:

- Keep the equipment away from water drops or splashes, and do not place any articles containing liquid on the equipment;
- Keep the equipment away from fire source to prevent fire hazard;
- Unplug the power plug immediately in case of strange noise, smoke or odor.

During use, you can get quick access to more help information through the following ways.

Service Hotline: 0755-86269679

Email: info@meixiwei.com

Get more help information quickly by scanning the following QR code.

Visit: www.muxwave.com for more information.



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