

P3.9 Installation Manual for Holographic Invisible Mesh Display

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Chapter 1

1. P3.9 Shipment Information:

We are shipping 22 pieces of P3.9 mesh panels, including 11 pieces of A panels (installed on the top side of the screen) and 11 pieces of B panels (installed on the bottom side of the screen). You can choose between two display sizes: 2500mm (W) x 3000mm (H) or 2750mm (W) x 3000mm (H). During factory aging, we follow the dimensions of 2500mm (W) x 3000mm (H), as shown in the aging photo below.

(1) Parameter for P3.9 Mesh Display 2500mm (W) x 3000mm (H)

Model	LP-P3.91-1500		
Pixel Pitch	L(3.91mm)W(3.91mm)	Average Lifespan	≥100,000 hours of use
Pixel Density	65,536dots/sqm	Power Supply Requirement	110V ~ 220V±10%; AC50HZ, three-phase five-wire
Visual Transparency Rate	>80%	Grayscale Level	≥16(bit)
Module Size	1500mm*250mm	White Field Color Temperature	5500K-15000K (adjustable)
Overall Module Size	3042mm*2500mm*72mm	Drive Mode	Static
LED Type	2121 - Integrated lamp driving	Brightness Decay Rate	Below 0.05% in 2 years
Weight	26.62kg	Average Fault-Free Working Time	≥10,000hours
Resolution	256x512 pixels	Operating Environment	◆Working Environment: 0~+60℃/20~85%RH,
LED Control System	Synchronous/Asynchronous		

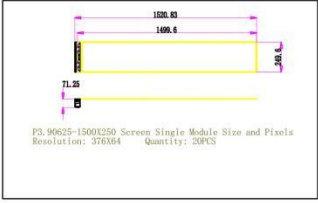
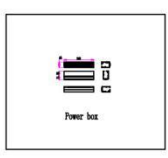
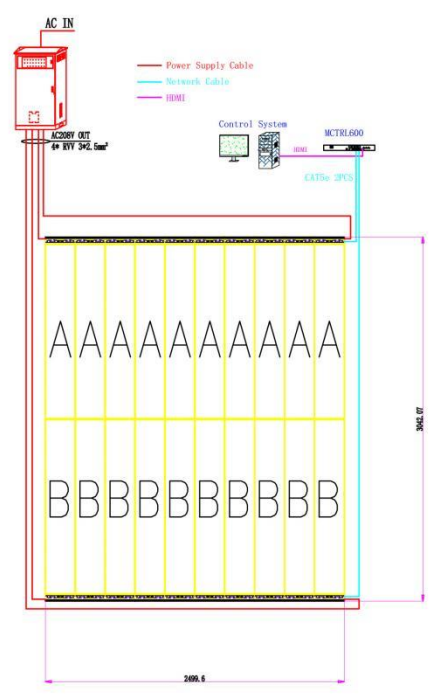
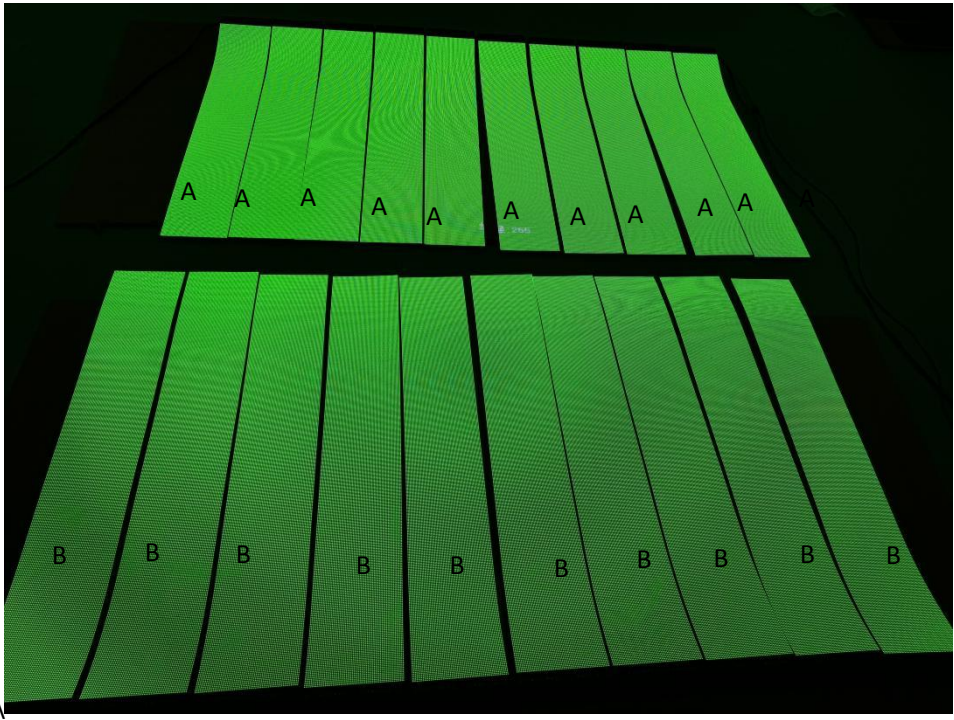
Display Thickness	1.8mm		no condensation ◆Storage Environment: - 20~+65°C/10~85%RH, no condensation
Brightness	White balance brightness ≥ 2500 cd/sqm; Automatically adjusted according to environmental brightness and manual adjustment	Installation Method	Wall Mount Installation, Glass Adhesive, Hanging, Stacking, suitable for curved installations, supports cutting to any size
Viewing Angle	Horizontal 160, Vertical 140	Packaging	Cardboard Case/ Plywood Case / Flight Case
Resumable Transmission	Supported	Power Consumption	Average Power: 450W/m ² , Maximum Power Consumption: 1200W/m ²

(2) Parameter for P3.9 Mesh Display 2750mm (W) x 3000mm (H)

Model	LP-P3.91-1500		
Pixel Pitch	L(3.91mm)W(3.91mm)	Average Lifespan	$\geq 100,000$ hours of use
Pixel Density	65,536dots/sqm	Power Supply Requirement	110V ~ 220V $\pm 10\%$; AC50HZ, three-phase five-wire
Visual Transparency Rate	$> 80\%$	Grayscale Level	≥ 16 (bit)
Module Size	1500mm*250mm	White Field Color Temperature	5500K-15000K (adjustable)

Overall Module Size	3042mm*2750mm*72mm	Drive Mode	Static
LED Type	2121 (Integrated lamp driving)	Brightness Decay Rate	Below 0.05% in 2 years
Weight	26.62kg	Average Fault-Free Working Time	≥10,000hours
Resolution	256x512 pixels	Operating Environment	◆Working Environment: 0~+60°C/20~85%RH, no condensation ◆Storage Environment: -20~+65°C/10~85%RH, no condensation
LED Control System	Synchronous/Asynchronous		
Display Thickness	1.8mm		
Brightness	White balance brightness ≥2500cd/sqm; Automatically adjusted according to environmental brightness and manual adjustment	Installation Method	Wall Mount Installation, Glass Adhesive, Hanging, Stacking, suitable for curved installations, supports cutting to any size
Viewing Angle	Horizontal 160, Vertical 140	Packaging	Cardboard Case/ Plywood Case / Flight Case
Resumable Transmission	Supported	Power Consumption	Average Power: 450W/m ² , Maximum Power Consumption: 1200W/m ²

(3) Wiring Diagram and Aging Photo for P3.9 Mesh Display 2500mm (W) x 3000mm (H)



Explanation:
 1, Maximum power consumption of the entire screen is 9KW and average power consumption is 3.38KW;
 2, Max Power: 1200 Watts per SQM; Avg Power: 450 Watts per SQM;
 3, Full screen area: 7.5 SQM.

2. Accessories List



10m Power Cable



10m Data Cable



Control Box Ethernet Connection Cable



Spare Hub A、Hub B Board



Film Application Squeegee



Power Supply



Spare LED for Repair (A and B Type)



Receiving Card



Power Cable for Control box



P3.9 Mesh Panel Fixing Screw and Washer



Controller MCTRL600



USB for P3.9 Files



Cables for Hub Card and Power Supply



Clips



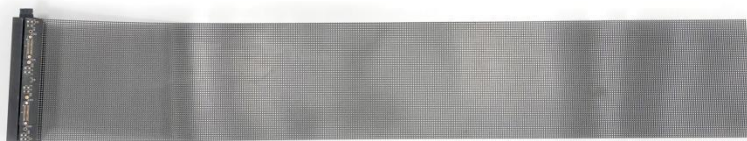
Control Box



Ethernet Cable Extension



1500mm Invisible PET Film



P3.9 Mesh Panel

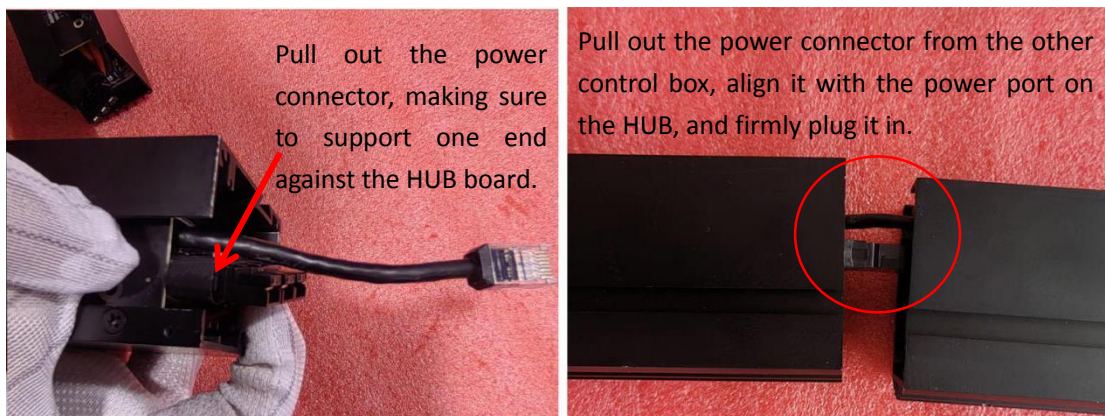
Chapter 2

1. How to Connect Power and Ethernet Cable (Connect the Ethernet cable first, and then connect the power cable)

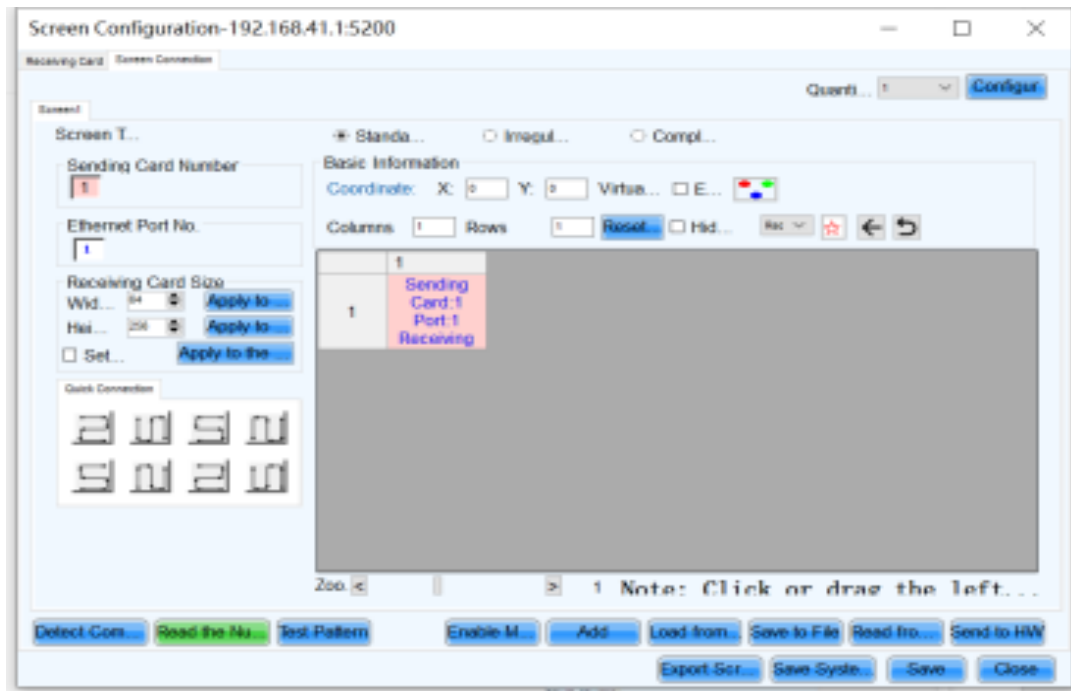
- (1) When inserting the Ethernet cable into the corresponding ports at both ends, hearing a 'beep' indicates that the connection is successful.
- (2) Note: When handling, avoid pulling the middle of the cable forcefully, as it may damage the connector.



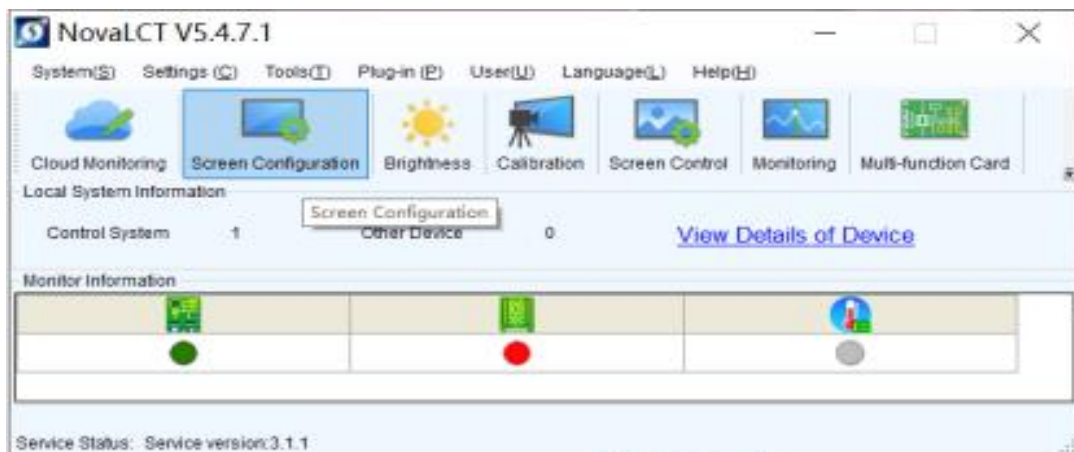
- (2) Connect the power connector and snap it into place using the upper and lower clasps



- (3) After install the control box, open NovaLCL, Log in and navigate to 'Screen Configuration'.



Locate 'Screen Connection'.



"Click on 'Read Receiver Card Quantity' to verify if the displayed quantity matches the actual number of connections on-site."

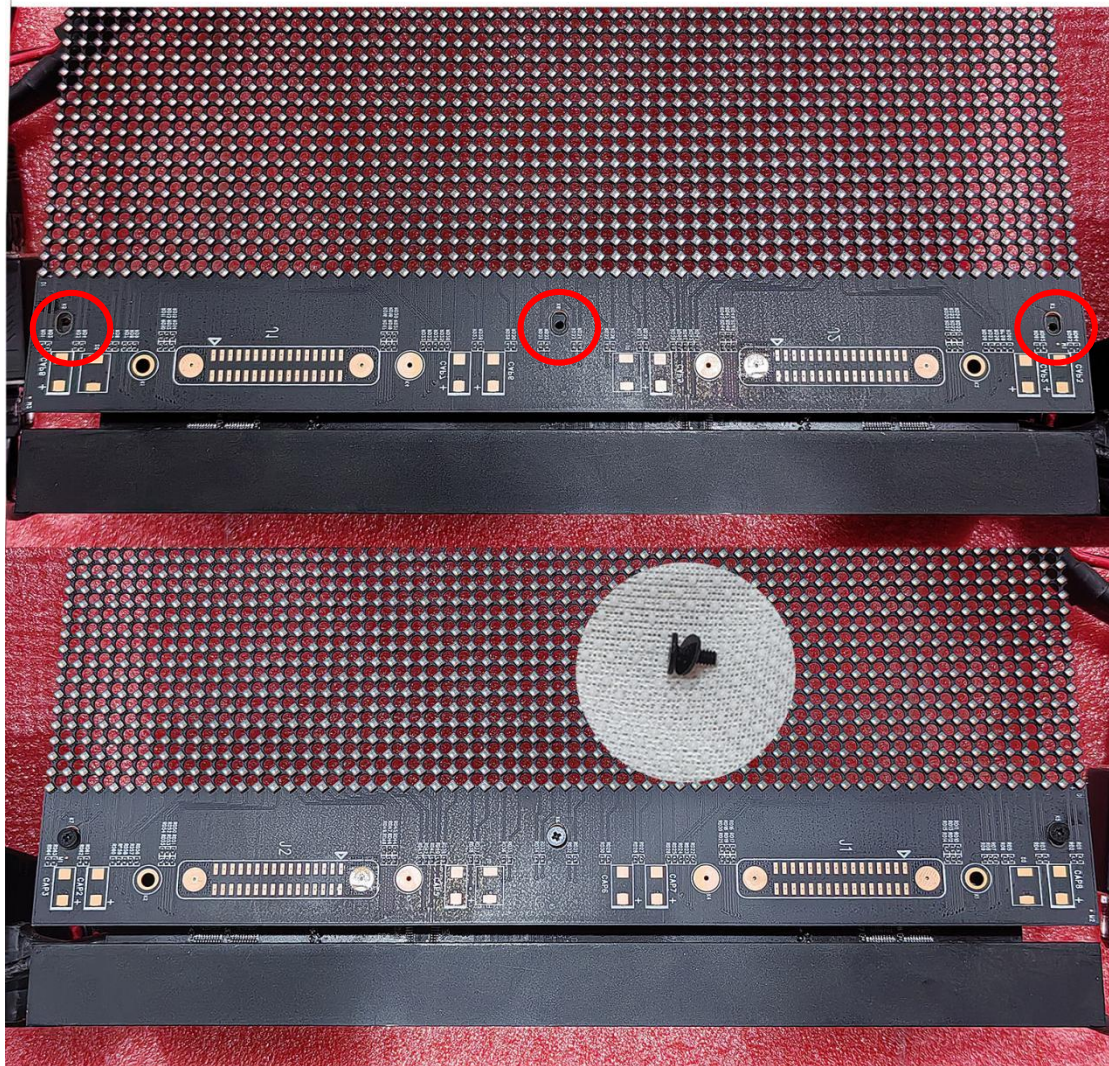
2. Securing the P3.9 Mesh Panel to the Control Box

(1) Align the three holes on the P3.9 mesh panel with corresponding positions and secure the P3.9 mesh panel and control box by tightening three screws.



3. How to Connect P3.9 Mesh Panels Together

(1) A panel can be plugged into any A control box, and B panel can also be plugged into any B control box.



Tip: When securing the P3.9 mesh panel with screws, be sure to use washers to avoid potential damage or short circuits to the P3.9 mesh panels.

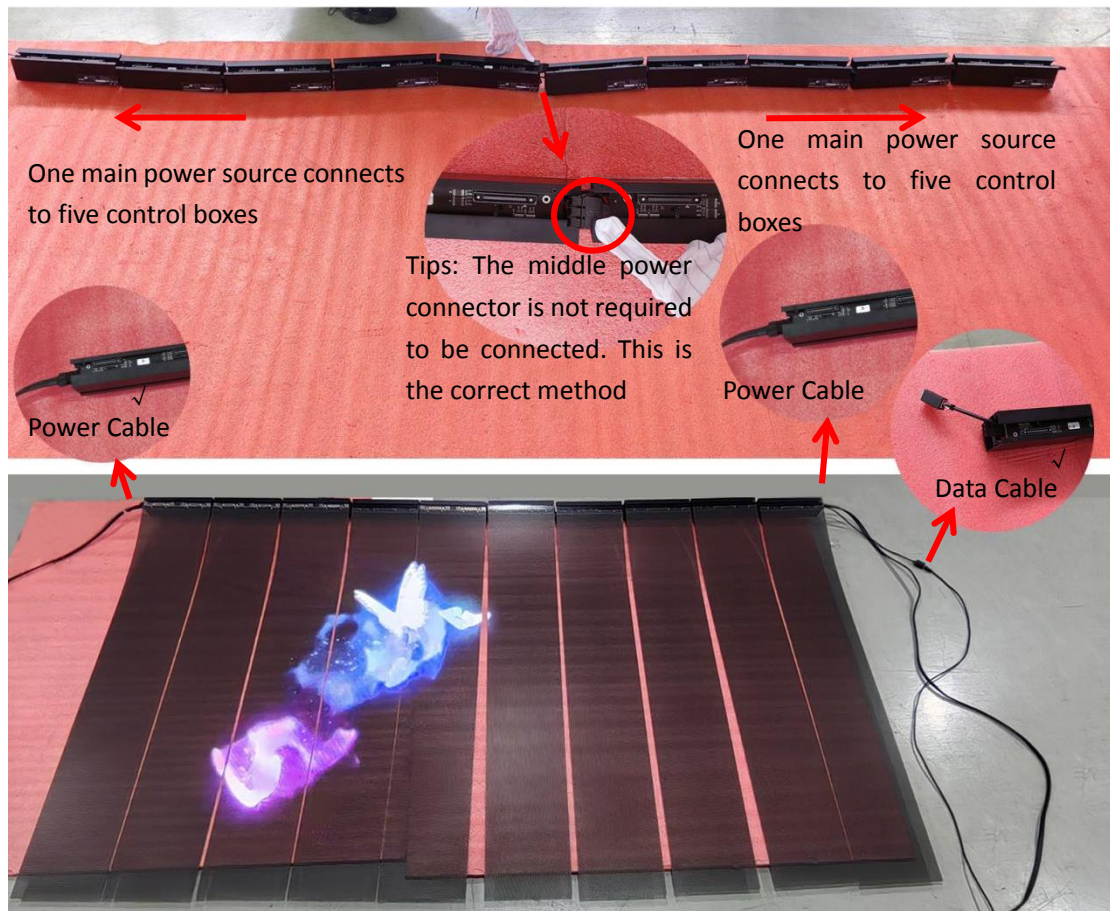
Chapter 3

1. How to Connect the Two Individually Spare Shipped Control Boxes to the Shipment Control Box

(1) One main cable connects 5 control boxes. The two main cables on the left and right are connected, and the middle Ethernet cable does not need to be unplugged. The power connector is not inserted as shown in the diagram (the connection method for the upper and lower control boxes of A and B is the same).

Note: Behind the A10 control box is the A11 control box. To connect the A10 and A11 control boxes with Ethernet and power cables, follow these steps:

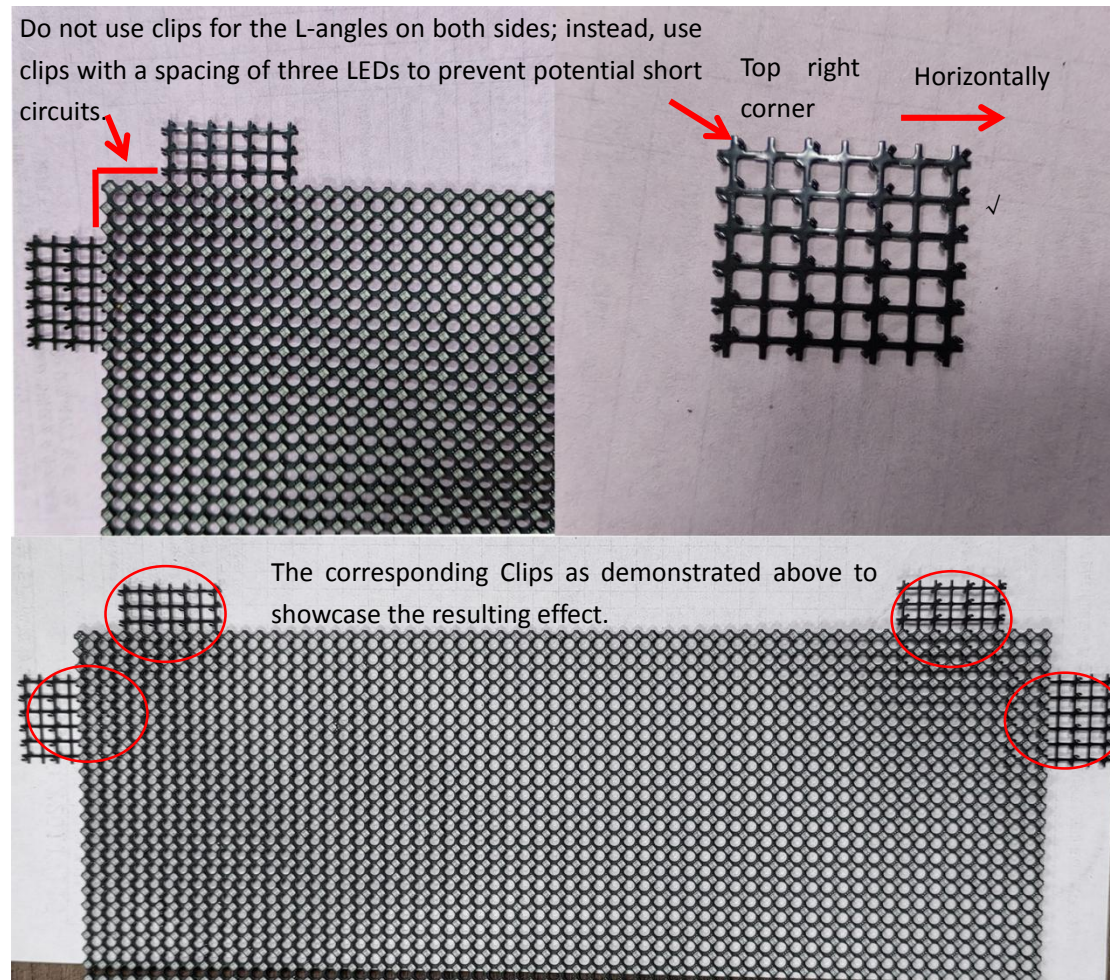
1. Insert the 'Control Box Ethernet Cable' into the A10 control box, and the other end into the network port of the A11 control box.
2. Pull out the power connector from the A10 control box, with one end supporting against the HUB board. Pull out the power connector from the A11 control box and align it with the power port on the HUB, then firmly plug it in.



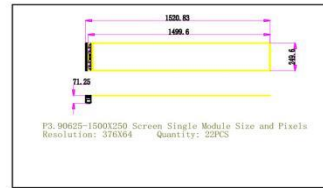
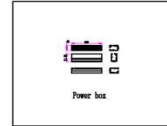
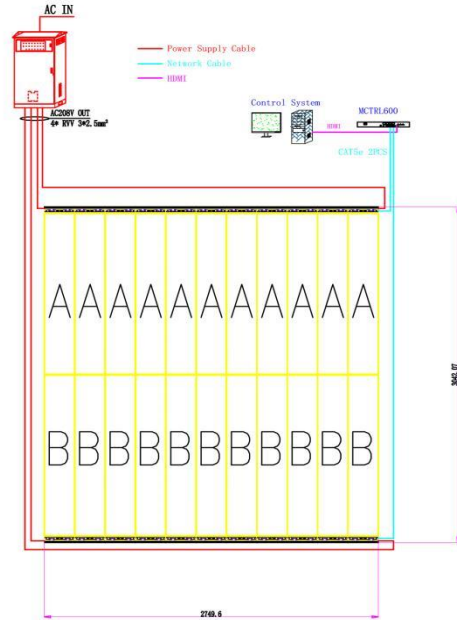
(2) In Image 2, only one power cable needs to be connected on the left side (no need for an Ethernet cable). On the right side, both power and Ethernet cables need to be connected (the connection method for the upper and lower control boxes of A and B is the same).

Note: When repairing the P3.9 mesh panels, ensure the use of the correct replacement LEDs. Use A LED for A mesh panels and B LED for B mesh panels; otherwise, it may affect normal display.

2. Correct Installation of Clips: The correct orientation for installing the clips is horizontally, aligning the top right corner with the corresponding slot. This ensures effective avoidance of solder joints on the LEDs and prevent potential short circuits..



3.2750x3000mm Wiring Diagram



- Explanation:**
- 1, Maximum power consumption of the entire screen is 9.9KW and average power consumption is 3.71KW;
 - 2, Max Power: 1200 Watts per SQM; Avg Power: 450 Watts per SQM;
 - 3, Full screen area: 8.25 SQM.