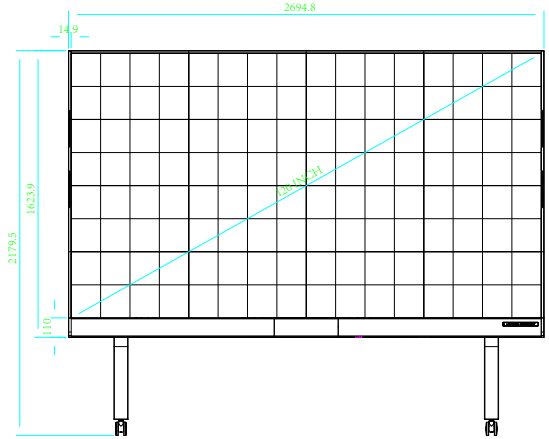
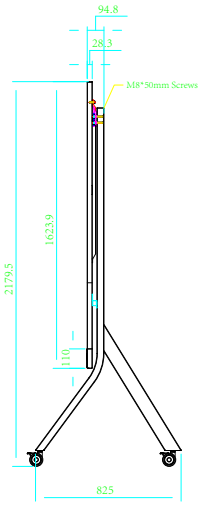
120-inch tripod installation diagram-ST90

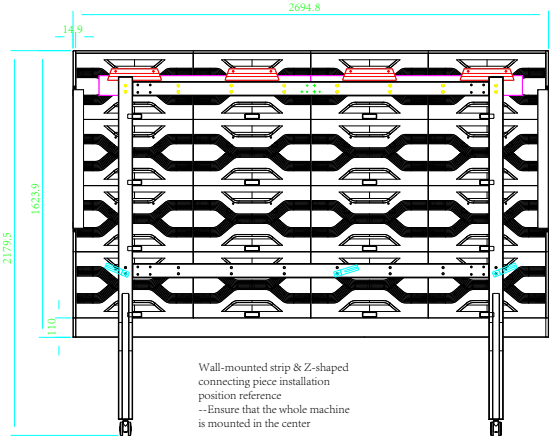
Screen front installation diagram



Screen side installation diagram

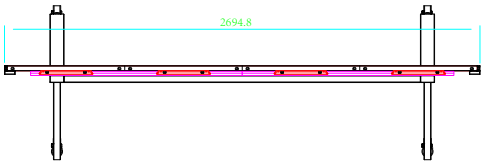


Installation diagram on the back of the screen

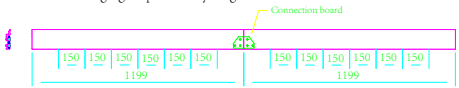


Wall-mounted strip & Z-shaped connecting piece installation position reference
--Ensure that the whole machine is mounted in the center

Screen installation diagram



Wall hanging strip assembly diagram



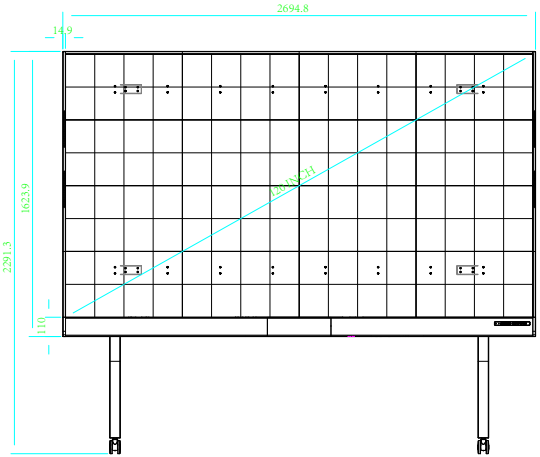
installation steps:
1. Install the tripod;
2. Assemble the wall hanging strip assembly according to the diagram and reference instructions;
3. Install the Z-shaped connecting piece on the bottom beam of the tripod at the position shown in the figure, but do not tighten the screws yet;
4. Use M8*20 screws to tighten the Z-shaped connecting piece in the box installation screw hole;
5. Hang the entire screen on the tripod;
6. The tripod structure shown in the figure refers to ST90.

*The third-generation all-in-one hemming machine has been assembled and shipped, and no assembly is required on site.
--Installation instructions will be updated after the camera and touch radar solutions are finalized

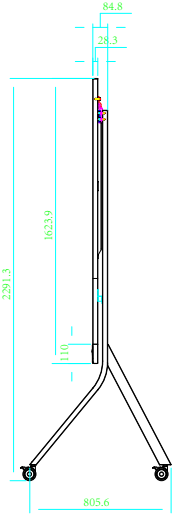
MODEL NO.	Tripod installation diagram	UNIT	mm
PART NO.		SCALE	1:1
PART NAME		REV.	
MATERTAL		SHEET	
SURFACE		CHK'D	
COLOR NO.		FIRST ANGLE PROJECTION	
DRAWN			

120-inch tripod installation diagram-ST92

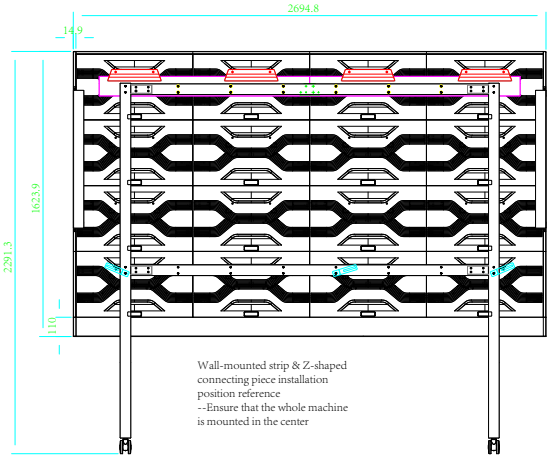
Screen front installation diagram



Screen side installation diagram

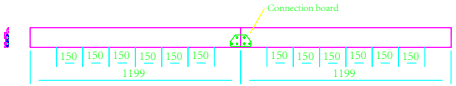


Installation diagram on the back of the screen

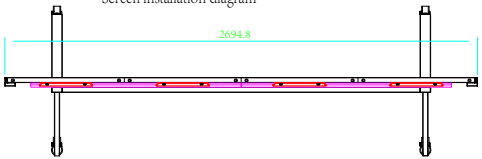


Wall-mounted strip & Z-shaped connecting piece installation position reference
--Ensure that the whole machine is mounted in the center

Wall hanging strip assembly diagram



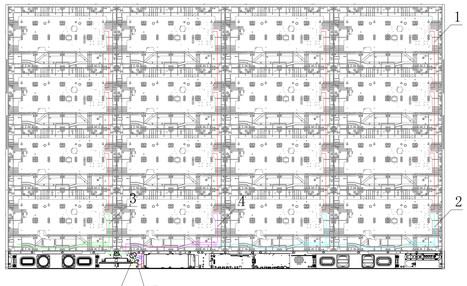
Screen installation diagram



installation steps:
1. Install the tripod;
2. Assemble the wall hanging strip assembly according to the diagram and reference instructions;
3. Install the Z-shaped connecting piece on the bottom beam of the tripod at the position shown in the figure, but do not tighten the screws yet;
4. Use M8*20 screws to tighten the Z-shaped connecting piece in the box installation screw hole;
5. Hang the entire screen on the tripod;
6. The tripod structure shown in the figure refers to ST92.

*The third-generation all-in-one hemming machine has been assembled and shipped, and no assembly is required on site.
--Installation instructions will be updated after the camera and touch radar solutions are finalized

MODEL NO.	Tripod installation diagram	UNIT	mm
PART NO.		SCALE	1:1
PART NAME		REV.	
MATERTAL		SHEET	
SURFACE		CHK'D	
COLOR NO.		FIRST ANGLE PROJECTION	
DRAWN			



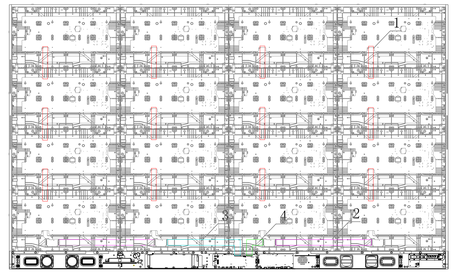
Front view
Power connection diagram

Technical Requirements:
1. The gaps between modules should be evenly spaced, the surface should be flat and intact,
with no sharp edges or cracks.
2. All fixed parts should be firmly and securely attached, without any looseness, leakage, or
cross-threading.
3. The casing should have a good grounding connection.
4. The power cable connection should be reliable, with no occurrence of short circuits,
sparking, or breakage. The power cable and internal connection wires should be arranged
neatly with trapezoidal lines secured in place.

No.		name	quantity	note
5		Power input wire	1	
4		Horizontal interconnection wire between the boxes - Right side	1	
3		Horizontal interconnection wire between the boxes - Left side	1	
2		Horizontal interconnection wire between the boxes	2	
1		Vertical interconnection power wire between the boxes	12	

Third generation-120 inch System connection diagram-Power

version：V1.2



Front view
Network wiring diagram

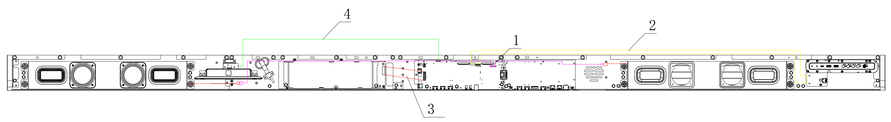
Technical Requirements:

1. The gaps between modules should be evenly spaced, the surface should be flat and intact, with no sharp edges or cracks.
2. All fixed parts should be firmly and securely attached, without any looseness, leakage, or cross-threading.
3. The casing should have a good grounding connection.
4. Ensure the signal FFC (Flat Flexible Cable) is well connected and the adhesive part is firmly attached.

No.		Name	quantity	note
4		Horizontal interconnection signal FFC between the boxes - Right side	1	
3		Horizontal interconnection signal FFC between the boxes - Left side	1	
2		Horizontal interconnection signal FFC between the boxes	2	
1		Vertical interconnection signal FFC between the boxes	12	

Third generation-120 inch System connection diagram-signal

version：V1.2



Front view
Internal wiring diagram of the bottom frame

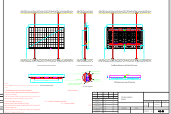
Technical Requirements:
Ensure that the wires are securely fastened with cable ties, and that FFC & FPC are pre-installed at the factory.

No.		Name	quantity	note
4		Wifi module & transmitter card interface cable	1	
3		Transmitter card & power module electronic cable termina	1	
2		FPC between keypad & transmitter card	1	
1		Speaker branch cable	1	

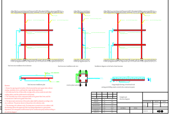
Third generation-120 inch System connection diagram -bottom frame

version：V1.2

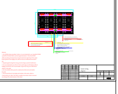
120-inch vertical installation diagram



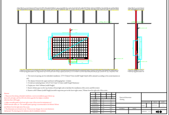
120-inch steel structure diagram



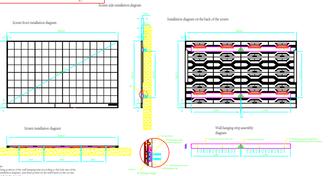
Screen wiring diagram



Dimensions reserved for built-in installation



120-inch wall-mounted installation diagram

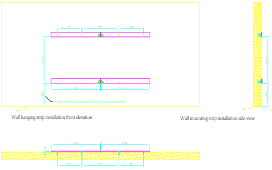


Installation Notes:

1. Install wall hanging strips
   1. Determine the punching position of the wall hanging strip according to the hole size of the wall hanging strip in the installation diagram, and draw points on the wall based on the on-site screen height requirements from the ground.
   (It is recommended to use 6 points for the 600*3 wall hanging bar, and 4 points for the 600*2 wall hanging bar, and the others are reserved holes; the drilling position needs to be precise, and you can use other instruments such as a level)
   2. Use an electric drill to drill M8*80 expansion screw mounting holes at the tracing points, with a hole diameter of 10mm and an accuracy of no more than 1mm (if the hole is missed or hits the internal steel bars of the wall, other reserved holes can be selected)
   3. Use M8*80 expansion screws to install the wall hanging strips, and use 6 M6*16 fixed connecting pieces to connect the two wall hanging strips.
   4. Check whether the installation of the wall hanging strips is qualified. Pay attention to: 1) levelness; 2) the spacing between the two rows of wall hanging strips; if adjustment is needed, loosen the expansion screws, adjust slightly by hand until they are qualified, and then tighten the screws.
2. Install the box
   1. Hang the boxes on the wall-mounted strip through hooks in order of numbers.
   2. Each row of boxes is composed of 4 consecutive boxes, which are connected together with upper and lower hook locks. Pull out the side spring positioning pins so that the positioning pins are fully inserted into the matching positioning holes, and connect the left and right sides between each row of boxes. Tighten the side lock with an Allen wrench.
3. Screen wiring
   1. Refer to the internal wiring diagram to connect the power cable and signal FPC cable.
4. Module installation
   1. Refer to the user manual for details.

Wall hanging hole location map

Wall mounting strip mounting hole location map

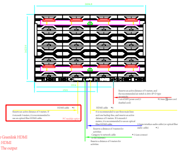


illustrate:

1. Check whether the wall hanging strips are on the same horizontal and vertical surfaces;
2. Dimensions will be reviewed on-site. If there are any changes, the on-site dimensions shall prevail. The drawings are for reference only;

Wall hanging hole location map

Screen wiring diagram

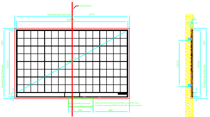


illustrate:

1. For HDMI wiring exceeding 5 meters, it is recommended to use Greenlink HDMI optical fiber finished cable to prevent signal attenuation. Note that HDMI cables exceeding 20 meters have an input head and an input head. The output head is placed on the display end, and the wires are numbered from head to tail;
2. Separate signal wiring from strong current wiring to prevent interference;
3. It is recommended to use D20, 2P-20A, and D-type circuit breakers without leakage protection for the circuit breaker output from the power distribution cabinet to the panel;
4. For the network cable, press the crystal ends at both ends and number the ends;
5. The reserved line for the display end interface of the audio cable is a 3.5mm audio port cable. The mixer is usually a lotus head, which is reserved according to the actual situation of the mixer;

Screen wiring diagram

Dimensions reserved for built-in installation



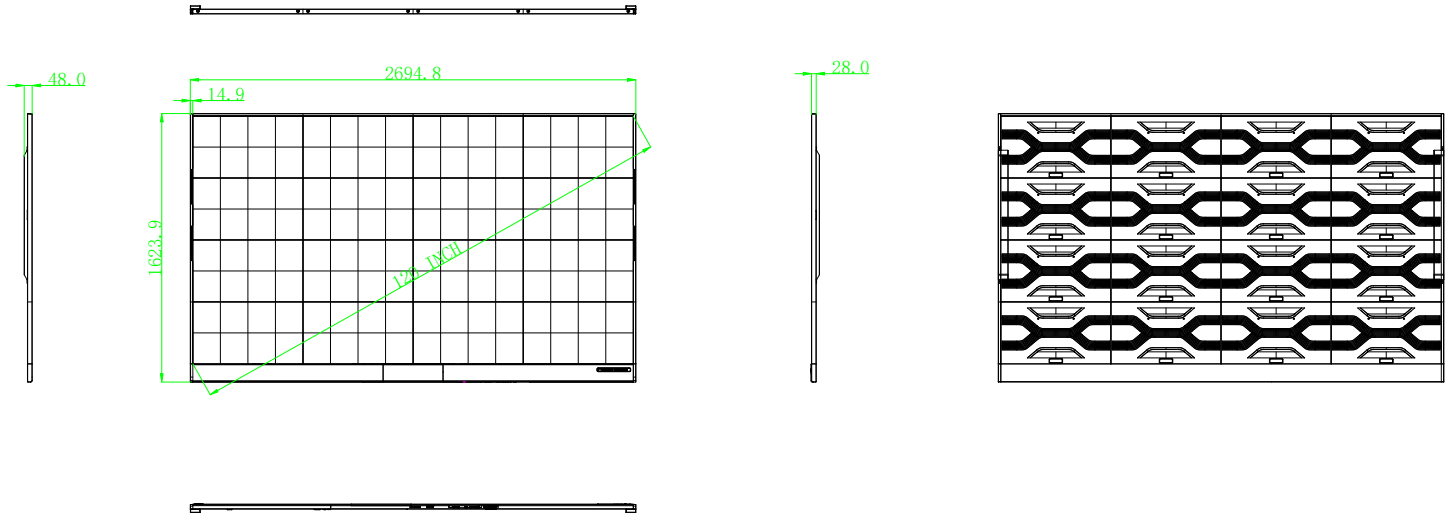
1. The reserved opening size for embedded installation: 2775*1704mm*55mm (width*height*depth will be adjusted according to the actual situation on site)
2. The distance between the upper and lower wall hanging bars: 1124mm
3. Overall size including frame: 2694.8*1623.9mm*28.3mm (width*height*thickness)
4. Display size: 2664*1498mm (width*height)
5. Reserve 40mm space on the top, bottom, left and right sides to facilitate the installation of the screen and fill it in later.
6. Reserve a 600*200mm (width*height) movable inspection port in the lower right corner, 700mm from the right side of the screen

illustrate:

1. Please note that during embedded installation, reserve an installation gap of 40mm up, down, left, and right, and then fill in the 40mm gap after the display is installed, otherwise there will be gaps;
2. Make a movable panel in the lower right corner of the screen for maintenance of HDMI network cables, etc. The movable panel opening is recommended to be 600mm*200mm and 880mm from the right side of the screen;
3. The dimensions are reviewed on site. If there are any changes, the on-site dimensions shall prevail. The drawings are for reference only for installation methods;

Reserved size drawing

signal	date	modify items	modified by
1	2021-08-XX		



120-inch all-in-one Display

Product Model

Size Tolerance (mm)	
0<X≤500	± 0.1
500<X≤1000	± 0.2
1000<X≤1500	± 0.4
1500<X≤2000	± 0.5