

TECHNICAL PRODUCT SHEET

OUTDOOR FULL COLOR P3



FRONT VIEW



REAR VIEW



Technical Specification

FRONT VIEW



REAR VIEW



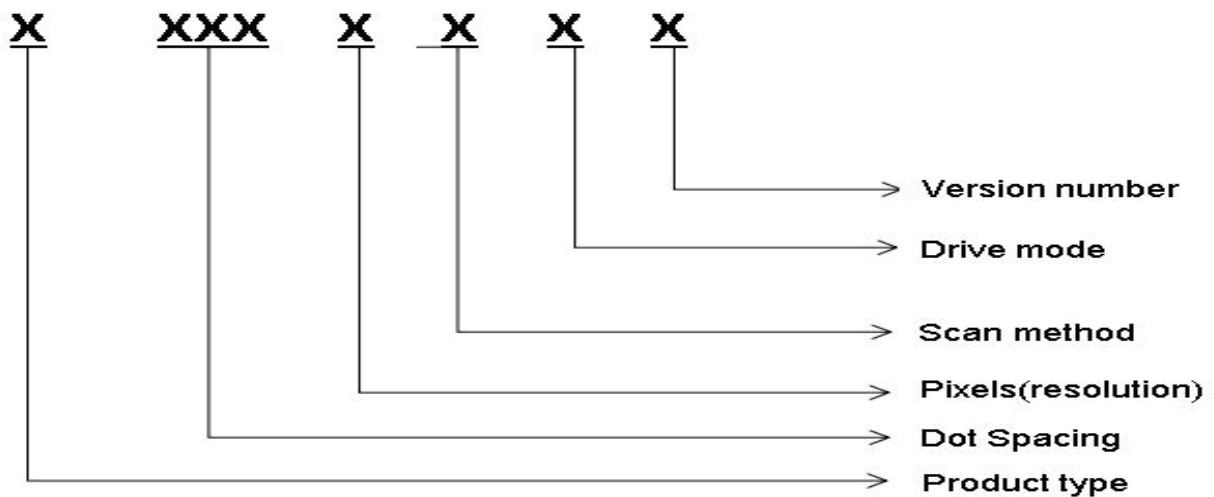
Module			
Pixel Pitch	3.0mm	Pixel Density	105625 Dots/m²
Configuration	1R1G1B	LED Lamp	SMD1515
Size (Width*Height*Depth)	320*160*17.5mm	Weight	0.40kg±0.01kg
Structure	Lamp & IC in same PCB	Resolution	104*52=5408Dots
Input Voltage (DC)	4.5±0.1V	Maximum Current	≤8.94A
Power Consumption	≤40W	Driving Method	Constant Current 1/13 Scan
40A Power Supply for	2-3 pcs module	80A Power Supply for	6-7 pcs module
40A PFC Power Supply for	3-4 pcs module	50A Power Supply for	3-4 pcs module
Cabinet			
Cabinet Size (Width*Height)	960mm*960mm*104.5mm (Thickness including module, cabinet and connecting piece) 960mm*960mm*169.5mm (Thickness including module, cabinet and connector)		
Cabinet Pixel Density	312*312=97344Dots		
Cabinet Area	0.9216m²		
Cabinet Weight	29.7kg±0.05 kg		
Cabinet Max Power Consumption	≤724W		
Average Power Consumption (1/3 Max)	≤241W		
Distribution Power (Power Supply Capacity 78%)	≤928W		
Screen			
Brightness	≥4500cd/m²	Brightness Uniformity	>0.95
Horizontal Viewing Angle	140 ±10 degree	Vertical Viewing Angle	130 ±10 degree
Best Viewing Distance	≥3m	Black Spot Ratio	<0.0003
Max Power Consumption	≤786W/m²	Operation Environment	Outdoor
Grayscale	14-16bits (RGB each)	Display Color	4398 Billion
Frame Frequency	≥60 frame/sec	Refresh Frequency	3840 Hz
Control Mode	Computer control, Point-to-point, Video Synchronization, real-time display	Brightness Adjustment	256-grade manual/automatic
Input signal	DVI/VGA/HDMI/DP, composite video signal, S-VIDEO, YpbPr(HDTV)		
Life Span	≥100,000 hours	Average Failure Free Time	≥10,000 hours
Attenuation (3 years later)	≤15%	Operating Humidity	10%-90%RH

Signal Pin

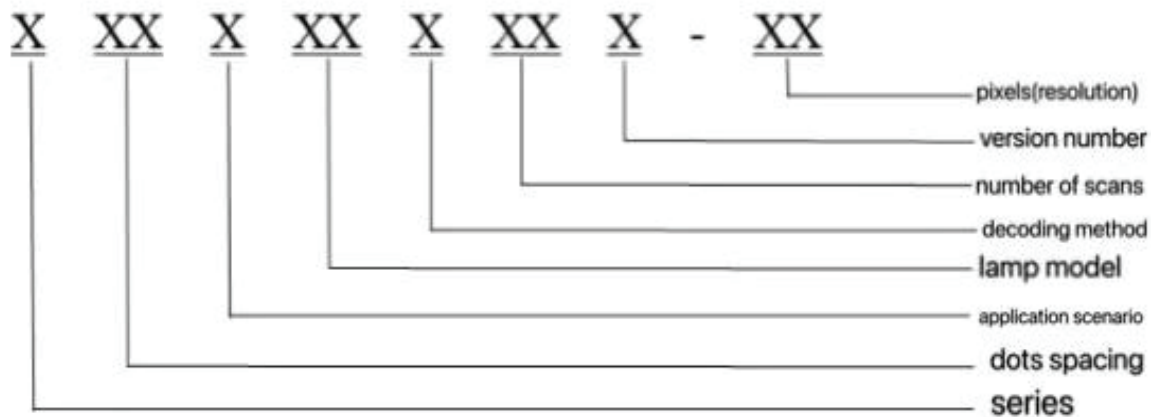
HUB75				Pin	Signal	Function	Pin	Signal	Function
1	●	●	2	1	RD1	Red data signal	2	GD1	Green data signal
3	●	●	4	3	BD1	Blue data signal	4	GND	Power ground
5	●	●	6	5	RD2	Red data signal	6	GD2	Green data signal
7	●	●	8	7	BD2	Blue data signal	8	E	Row control signal
9	●	●	10	9	A	Row control signal	10	B	Row control signal
11	●	●	12	11	C	Row control signal	12	D	Row control signal
13	●	●	14	13	CLK	Clock signal	14	LAT	Data locking signal
15	●	●	16	15	OE	Enable signal	16	GND	Power ground

Product Model Naming Instructions

(1) Mode 1:

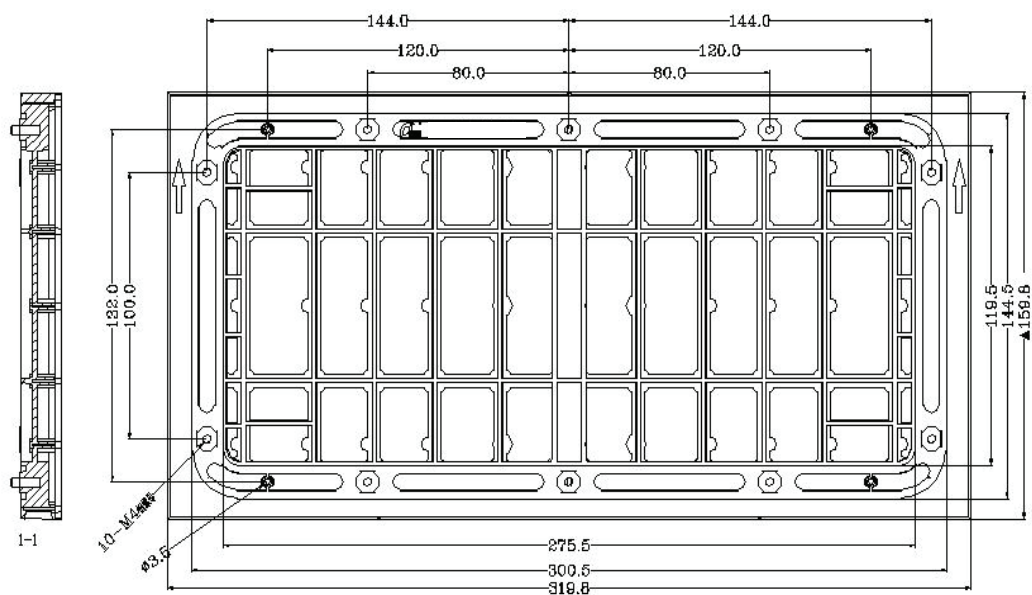


(1) Mode 2:



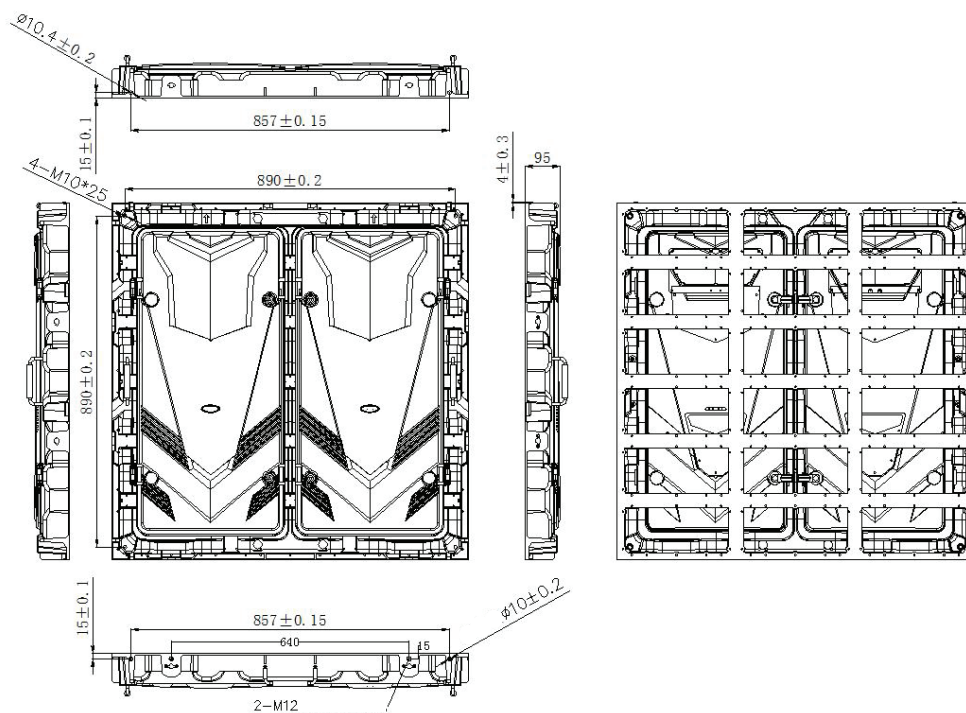
Mounting Hole Bitmap

Installation hole bitmap of panel



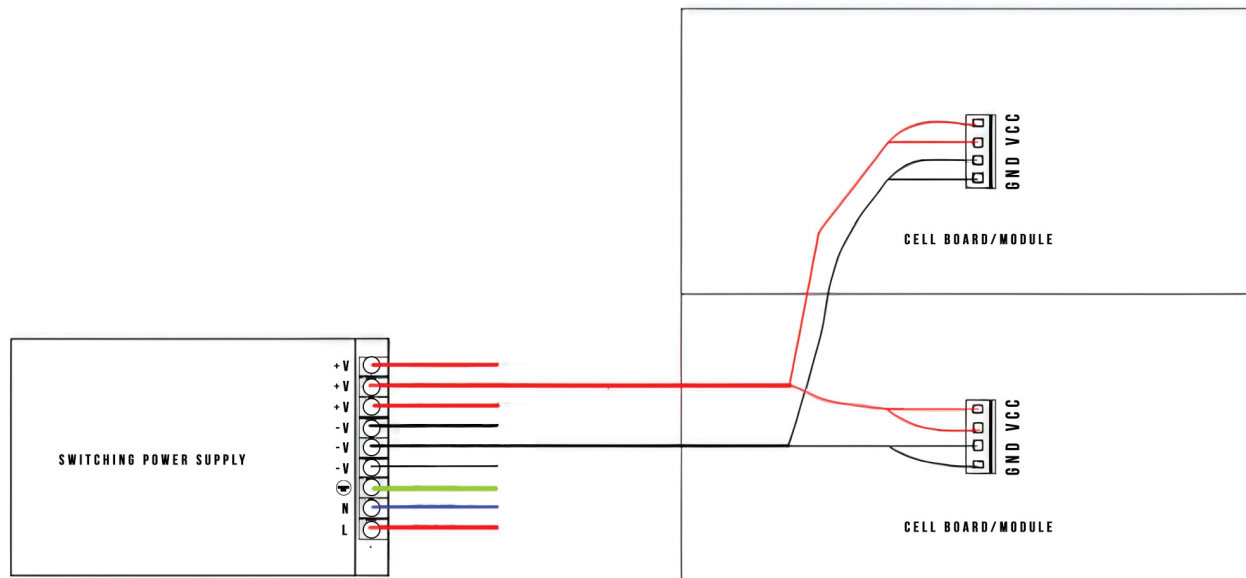
Remarks: "If you need to make a cabinet, please inform salesmen in advance and confirm the hole bitmap of the ordered product. Please refer to the CAD drawing for details." All dimensions are in mm.

Recommended 960*960mm cabinet mounting hole map



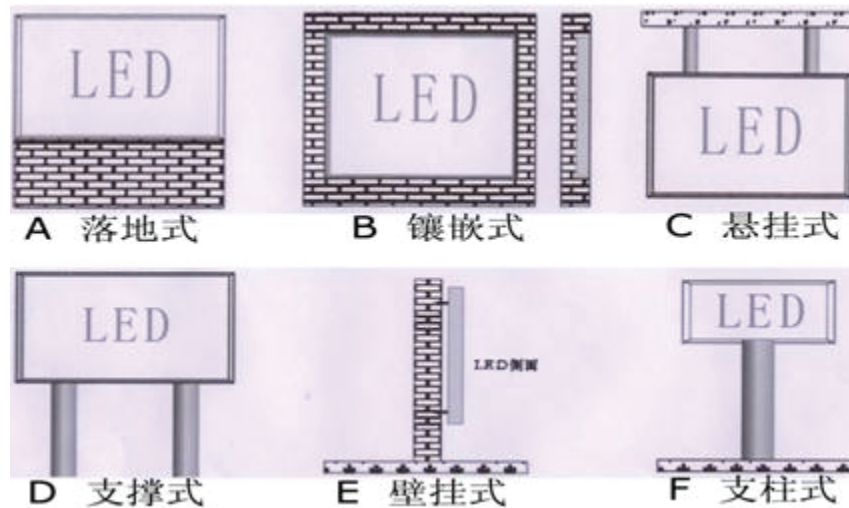
Installation Instructions

Schematic diagram of power supply and module wiring (this figure is for reference only, the specific wiring method refers to the actual object):



Amplitude range

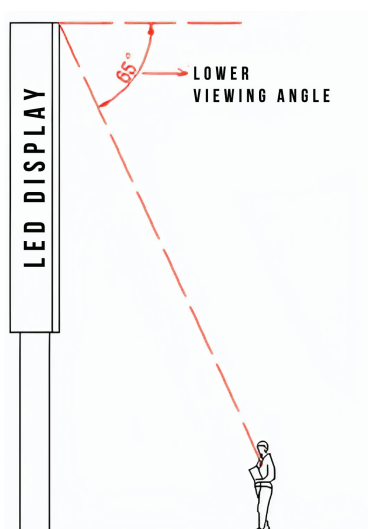
There are six common installation methods for outdoor display screens.



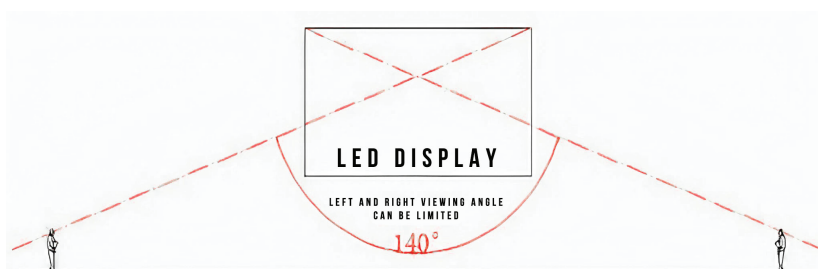
The cabinet is installed from the bottom layer, and the installation of wrong and garbled characters will affect the display effect of the screen. During installation, it should be noted that the bottom layer must be installed very flat, and then the upper cabinet should be installed. The connection between the cabinet and the cabinet should be Apply waterproof glue. After the whole screen is debugged, the surrounding of the screen structure must be strictly waterproofed.

Screen brightness: adjust the screen to full brightness, adjust the brightness efficiency in the test software to 80% on the computer, and use a light gun to measure the brightness of the screen within 10 minutes. Measuring the brightness requires that the light gun should be aimed at the screen body. It is best to measure the light gun to keep the screen body level, make sure that the black position of the observation window covers more than 16 pixels, and adjust the focal length for measurement.

Viewing angle: when measuring, people stand at a position of 140° left and right of the screen, and the viewing angle below the screen is 65° . It is required that the screen has no obvious black spots and no obvious dark blocks.



Screen upper and lower viewing angle



Left and right viewing angles of screen

Grounding: The shell, box and screen structure of the switching power supply are properly grounded, the grounding point is correctly marked with the grounding mark, and a spot check is carried out every six months;

Lightning protection treatment: the building is required to have lightning rod or lightning protection belt facilities and be effectively grounded, and the power distribution box is required to be equipped with a surge protector, and the lightning protection facilities are required to be inspected every six months.