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Product Specification

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Product:

Outdoor Full Color Q4 1/10 Scan Module

Item No.: gliled

S4-10S-PRO-2525

Version:

3.1

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1. Scope of Application

This technical manual is only applicable to the outdoor Q4-10S-PR0-2525 module , the following are conventional product parameters, and can be customized if you have Qiangliled **製造機 Qianglil** special requirements.

2. Application Precautions

Project		Description		
Environ mental Precaut	Temperature Requirements Humidity Requirements	Storage temperature range: -10°C-30°C, if it exceeds 30°C, cooling treatment is required. Operating temperature range: -20°C-40°C, other temperature ranges need to be equipped with temperature control equipment. The temperature of the lamp surface when the module is working: ≤85°C, if the temperature exceeds the standard, temperature control equipment should be installed. Storage humidity range: 10%RH-60%RH, if the humidity exceeds 60%RH, dehumidification is required. Working humidity range: 10%RH -90%RH, if the humidity exceeds the standard, it can be used normally only after dehumidification of the use environment.		
ions	Corrosive gas resistance	Corrosive gases in the environment containing salt or acid gas in the air will cause corrosion of electronic components, crystal leakage and other phenomena.		
。 過力巨彩 IANG II	Static hazard, prevent lightning strike	The metal components of the screen, the shell of the switching power supply, and the box should be well grounded, and the grounding resistance should be ≤10Ω. Prevent electrostatic damage to electronic devices, while avoiding leakage of electricity to the human body.		
®	Static Protection	The installer must wear an electrostatic wristband and electrostatic gloves, and all tools must be strictly grounded during the assembly process.		
Precauti ons for use	Screen Waterproof	After the whole screen is installed, it is necessary to ensure that the interior of the screen will not enter the water. The surrounding of the screen, the box and the connection of the box should be covered with waterproof glue, and strict waterproof treatment should be done.		
) 强力巨彩 分 _{强力巨彩} G	Hazard description of magnetic	It is not recommended for customers to install the module outdoors by magnetic installation. If it is installed outdoors, the following hazards will occur:		



installation method	 Rain and snow will enter from the front of the display to the back of the display, causing the electronic components on the IC surface of the module, system cards, switching power supplies and wires to be soaked and corroded, resulting in premature failure; The magnetic installation method cannot guarantee the flatness and assembly effect of the display screen; The magnetic installation method is easy to deform the module in extremely cold weather.
Product batch number control	Products of different batch numbers cannot be installed on one screen, otherwise color blocks (mosaic) will appear on the screen.
Product wiring	The module cannot be directly connected to 220V, and the positive and negative poles of the power supply of the module cannot be reversed.
Disassembly and transportation process	Do not drop, push, squeeze or press the module to avoid damage to the display.
Mounting torque control	When wiring the power supply, make sure that the terminal connector screws are tightened to prevent the connector position from loosening, which may lead to high contact resistance and cause wire burning or product damage. The torque of M4 screw is 6.0-8.0 Kgf.cm, and the torque of M3 screw is 4.0-6.0 Kgf.cm.
Play Control	Do not only display still pictures or static text for a long time, which will cause serious attenuation of lamp brightness or cause batch dead lights. Please play scrolling pictures or text.
Prohibition of live work	It is forbidden to assemble the module when the power is turned on. The module should be assembled on the wall with the main power input disconnected. It is not allowed to assemble the plug-in power cord and signal line.
Environmental inspection	The installation site of the display screen needs to be equipped with a temperature and humidity meter to monitor the surrounding environment of the screen in time. After the heavy rain, you should promptly check whether there are moisture, water droplets, moisture and other problems inside the display screen.
Loading program file selection	It is required to use the system card officially recommended by QiangLi Jucai and the loader in the one-key debugging of the official website to avoid abnormal performance during the debugging process.
Parameter settings	The refresh frequency is required to be set according to the specified value in the specification to protect the normal service life of the lamp
Play Control	Do not display still pictures, text or fixed backgrounds for a long time, to avoid serious attenuation of lamp brightness



ANGLI		or batch dead lights, please play scrolling pictures or text
Talla II	Product use	It is strictly forbidden to use the indoor screen in an
	environment	outdoor or sub-outdoor environment
	Avoid	After the LED display is installed, construction is strictly
	construction on	prohibited to prevent the LED display from being affected
®	the installed ad	by high current impact and dust, such as electric welding,
一	LED screen	chainsaw and other equipment operations.
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3. Product Specification

- **3.1.**The display screen is mainly composed of red LED chips, green LED chips and blue LED chips packaged into a pixel point to form a matrix, and then fixed to the plastic kit;
- **3.2**. The display screen contains a driver chip and an input buffer chip, which can be connected to the LED display control system to display video, images and text information;
- **3.3.**Through the system control to drive the red LED, green LED and blue LED driving IC, 4,398 billion color conversions can be formed.
- **3.4**. The module I and the cabinet can be spliced arbitrarily in the horizontal and vertical directions to form different sizes of display screens.

3.5.Features

- High-quality lamps, high-efficiency lamp brightness utilization rate, while guaranteeing lamp lifespan and high-quality plastic component(塑胶件)
- · High contrast can achieve good display effect.
- The weight is easy to install and disassembly.
- Single point and single lamp maintenance can be carried out, with low cost.
- It is driven by a constant current, with uniform light emission and low power consumption.

3.6. Module Picture



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3.8. Suggestion Cabinet-(960*960 Magnesium Cabinet)

















4.Technical Specification

	Pixel Pitch	4mm	Pixel Density	62500Dots/m ²	
Module ®	Configuration	1R1G1B	LED Lamp	SMD2525	
	Size (Width*Height*Depth)	320*160*18mm	Weight	0.52kg±0.01kg	
	Structure	Lamp & IC in same PCB	Resolution	80*40=3200Dots	
	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤10.34A	
	Power Consumption	≤47W	Driving Method	Constant Current 1/10 Scan	
TANGI	40A Power Supply for	2-3 pcs module	80A Power Supply for	5-6 pcs module	
	40A PFC Power Supply for	3-4 pcs module	50A Power Supply for	3-4 pcs module	
® 强力E TANG	Cabinet Size (Width*Height*Thickness)		960mm*960mm*104.5mm (Thickness including module and cabinet) 960mm*960mm*169.5mm (Thickness including module, cabinet and connector)		
Cabinet [®]	Cabinet Pixel Density		240*240=57600 Dots		
建力	Cabinet Area		0.9216m²	Jana Qiang	
TAING	Cabinet Weight		30.3kg±0.5 kg	(Allee	
_	Cabinet Max Power Consumption		≤838W		
			≤279W		
®	Average Power Cons	umption (1/3 Max)	≤279W	8	
B	Average Power Cons	umption (1/3 Max) ver Supply Capacity 78%)	≤279W ≤1074W	® Qiang	
® 加度 ANG	Average Power Cons		≤1074W Brightness	》 >0.95	
服力巨利 ANG	Average Power Cons Distribution Power (Pow	ver Supply Capacity 78%)	≤1074W	>0.95 130 ±10 degree	
® Screen	Average Power Cons Distribution Power (Pow Brightness Horizontal Viewing	ver Supply Capacity 78%) ≥5000cd/m²	≤1074W Brightness Uniformity Vertical Viewing		
Screen 强力巨利 强力巨利	Average Power Cons Distribution Power (Pow Brightness Horizontal Viewing Angle Best Viewing	ver Supply Capacity 78%) ≥5000cd/m² 140 ±10 degree	≤1074W Brightness Uniformity Vertical Viewing Angle	130 ±10 degree < 0.0003; 0 when	
Screen	Average Power Cons Distribution Power (Pow Brightness Horizontal Viewing Angle Best Viewing Distance Max Power	ver Supply Capacity 78%) ≥5000cd/m² 140 ±10 degree ≥4 m	≤1074W Brightness Uniformity Vertical Viewing Angle Black Spot Ratio Operation	130 ±10 degree < 0.0003; 0 when shipped from the factor	



IAIL	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	

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5. Signal Pin

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1	•	•	.5
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5			6
7	•	•	8
9			10
11		•	12
13			14

iang	Pin	Signal	Function oiang	Pin	Signal	Function jang
	1	RD1	Red data signal	2	GD1	Green data signal
	3	BD1	Blue data signal	4	GND	GND
	5	RD2	Red data signal	6	GD2	Green data signal
	7	BD2	Blue data signal	8	GND	GND
sang	9	A	Line power control signal	10	В	Line power control signal
	11	С	Line power control signal	12	D	Line power control signal
	13	CLK	Clock signal	14	LAT	Data locking signal
	15	d oe	Enable signal	16	GND	GND







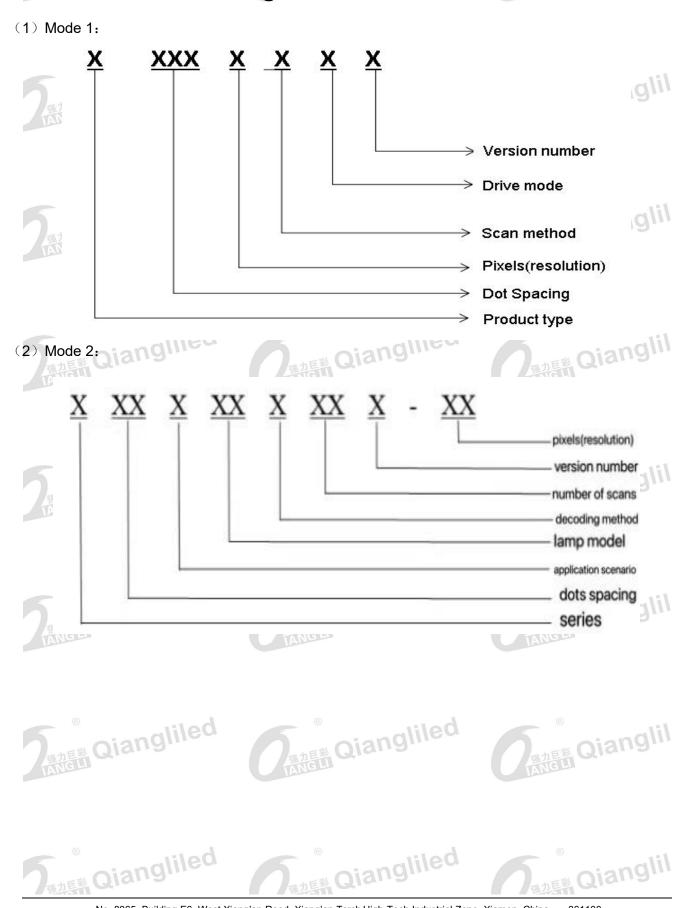








6.Product Model Naming Instructions



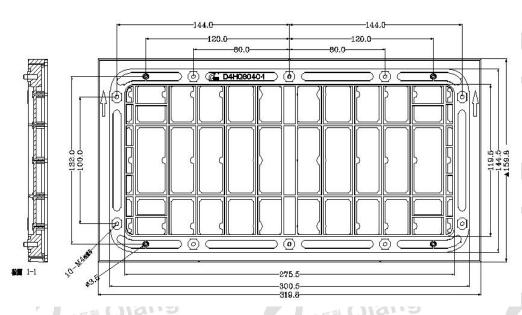
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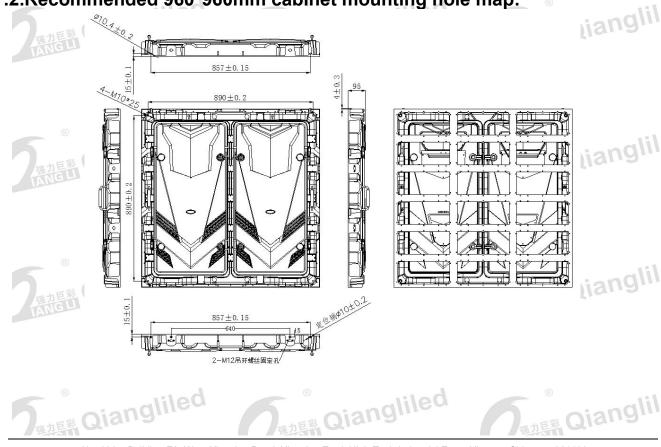
7. Mounting Hole Bitmap

7.1.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.

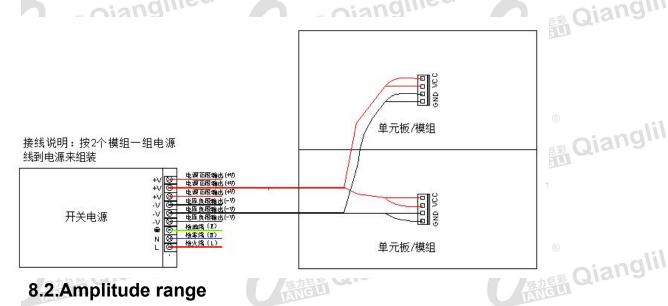
7.2.Recommended 960*960mm cabinet mounting hole map:





8. Installation Instructions

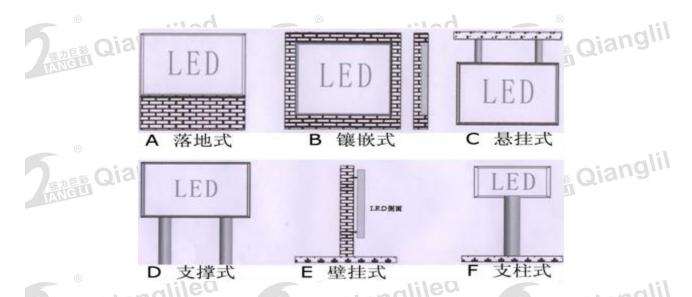
8.1. Schematic diagram of power supply and module wiring (this figure is for reference only, the specific wiring method refers to the actual object):



8.2.Amplitude range

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8.2.1. There are six common installation methods for outdoor display screens.

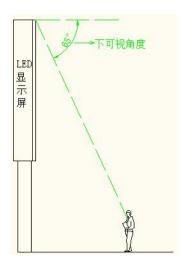


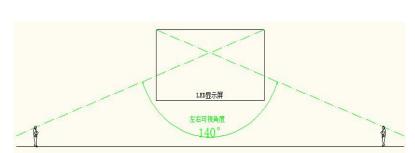
The cabinet is installed from the bottom layer, and the installation of wrong and garbled characters will affect the display effect of the screen. During installation, it should be noted that the bottom layer must be installed very flat, and then the upper cabinet should be installed. The connection 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.



8.3. Screen acceptance requirements and methods:

- **8.3.1.** 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.
- **8.3.2.** 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 the screen

- **8.3.3.**Grounding: The shell, box and screen structure or 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;
- **8.3.4.** 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.