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### **Scope of Application** 1.

This technical manual is only applicable to the indoor R2.5-32S-1515-Pro flexible module , the following are conventional product parameters, and can be customized if you have 私 Gii Qiangliled ANGUI Qianglil special requirements.

### Precautions 2.

Item		Descript			
item		Descript ion			
B ADE彩 Qia ANGI	ngliled Temperature requirement	Storage temperature range: -10°C - 30°C, over 30°C needs to do cooling treatment. Operating temperature range: -20°C -40° C, other temperature range, need to install temperature control equipment. Lamp surface temperature (working time):			
	ngliled	≤60°C, temperature control equipment is required to be installed when temperature exceeding the standard.			
5 oja	Humidity requirement	Storage humidity range: 10% RH-60% RH, humidity over 60% RH requires dehumidification treatment. Operating humidity range: 10% RH-65% RH, If the humidity exceeds the standard, it must be dehumidified before it can be used normally.			
Environmental Precautions	Storage overdue processing	If the product has been stored for more than one month, it must be aged for 6 hours before use before normal use. The aging method is: full brightness setting 10% 1H, full brightness setting 30% 1H, full brightness setting 60% 2H, full brightness setting 80% 1H, full brightness setting 100% 1H (brightness gradually increases and aging).			
® 2 建力巨彩 Qiz IANGLI	Dust-proof requirements	Indoor products have no protection level or IP30, and the display should not be exposed to heavy dusty environments, such as decoration and renovation. Special protection is required to protect the display. Installing LED display screen during decoration is strictly prohibited.			
6	Avoiding corrosive gas	Corrosive gas contains salt or acid gas in the environment,may cause corrosion of electronic components, crystallization, leakage and so on.			
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ANGLI の 通力E彩 Qia ANGLI Qia	Avoiding electromagnet ic radiation	The display screen should not be installed in an environment where electromagnetic radiation and radio frequency radiation exceed the field strength of 5V/m interference source.
	Avoid strong light	Strong light will affect the display effect and life span of screen. It should be install in the direction where there is shorter direct sun shining.

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	Keep away from water	Indoor products have low level of protection, water can make the module short circuit, and leads to circuit device damage, so it is necessary to keep away from the water source.
Environmen	Electrostatic hazard, Prevent lightning strikes	The metal components of the screen, the shell of power supply and the cabinet should be grounded well, and the grounding resistance should be less than $10\Omega$ . Prevent electrostatic damage to electronic devices in humid environment, while avoiding electric leakage to harm human body.
tal Precautions	Personal injury	The angle and height of the display installation should be appropriate, and the sharp corners should be packaged to prevent damage to the human body from the tough outer casing.
B D ANGU B	Special environment	Display screen for special environment (1, seaside, swimming pool, bathing room, basement, tunnel; 2, chemical environment, vulcanization environment, halogen environment; 3, dust, dusty environment; 4, strong ultraviolet environment; 5, the environment of strong electromagnetic fields; 6, less than -20 degrees, higher than +40 degrees of the environment),The review process is required before placing the order.
	Static Protection	The worker must wear an anti-electrostatic wrist strap and anti- electrostatic glove. Various tools must be strictly grounded during assembly
D 理力E業Q	Product batch control	Different batches of products cannot be installed in the same screen, otherwise there will be color blocks (mosaic) on the display.



Operational precautions	Product wiring	The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.
	Disassembly and transportation	Do not throw, push, squeeze or press the module to avoid damaging the display screen.
IANO ®	Disassembly and maintenance liquid protection	Sweat or other liquid cannot be dripped on the display screen during disassembly and assembly operation. If it is dripped, then use alcohol to clean the product, to prevent the liquid from corroding the product.
	Installation Torque Control	In connection with power supply, it is necessary to ensure tightening of terminal joint screw to prevent joint position from loosening, resulting in wire burning or product damage caused by high contact resistance. Torque of M4 screw is

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通力目标 TANGLI		6.0-8.0 Kgf.cm, and that of M3 screw is 4.0-6.0 Kgf.cm.
® 月 <sub>理力巨彩</sub> Q	Prohibited work with electricity	It is forbidden to assemble the LED module when the power is on. The LED module should be assembled with the main power input disconnected. It is not allowed to insert the power wire and signal cable when there are with electricity.
TANGES	Prohibited touch with electricity	It is forbidden for people to touch the LED display screen when the LED screen is in usage, so as to avoid electrostatic breakdown of LED lights and chips and other components caused by human body friction.
2 通力E業Q	Environmental inspection	Temperature and humidity meters should be equipped on the installation site to monitor the surrounding environment of the screen in time. After heavy rain, it is necessary to check whether there are any problems such as dampness, water droplets and over humidity in the screen in time.
Operational precautions	iangliled	Within 10% ~ 65% RH relative humidity range, it is recommended to turn on the display 1 time per day, and work at least 4 hours to remove moisture on the display.





	When the relative humidity of the environment is over 65% RH, dehumidification treatment should be carried out for the operating environment. It is suggested to use the screen for more than 8H per day in this environment, and doors and windows should be closed at night to prevent the display from dampness.
Requirements for moisture proof	When the display screen is not used for a long time, it is necessary to preheat and dehumidify the whole screen for 8H before using, so as to avoid damaging the lamp tube after dampness. The dehumidification methods are: full brightness set 10%- 1H, full brightness set 30% 2H, full brightness set 60% -2H, full brightness set 80% -2H, full brightness set 100% -1H (brightness gradually increasing aging).
	After usage , immediately put into flight case and seal the flight case;
	In each flight case, please put a desiccant or hygroscopic bag of not less than 50g.
	In the range of 10% to 65% RH relative humidity, the screen should be lighted on more than 2H every half month; More than 65% RH and in the resurgence weather, the screen must be lighted on more than 2H every week.



Aligu Aligu Aligu Aligu	iangliled	LED display: After finished the display, need to put it back to flight case, sealed and stored. (please check whether there is any failure of the desiccant or hygroscopic bag in the aviation, it needs to be replaced every 2 months, and more desiccant can increase the dryness inside the box.) When the display screen is not in use for a long
Operational		time, it is necessary to reduce the brightness of
precautions	Requirements for moisture proof	the whole screen by 50% in advance and play it for 12 hours, and preheat it for "dehumidification" 12H to avoid damaging the light tube after the LED screen is damped.
B フ 通力E彩 Q ANGU	iangliled	While renting, do not touch the display screen with water. If there is any water, make sure that the water on the screen is dried. After 2H, light the display screen 2H, and evaporate the water by lamp and IC heat.
6	belin	It is strictly forbidden to use indoor rental screens as outdoor rental screens, especially in the open air environment.
	Avoid construction work to the installed LED screen	It is strictly forbidden to rebuild after the installation of the LED display screen, so as to prevent the LED display screen from being affected by the impact of high current and dust, such as welding, electric saw and other equipment.
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#### **Product Specification** 3.

**3.1.** The indoor full color display has a clearer and more detailed display, and the resolution can reach above 1080P; it can achieve high refresh rate, high grayscale and higher lamp utilization. And it has the functions of no afterimage, anti-caterpillar, low power consumption, low surge, etc.

**3.2.** The indoor full color display is mainly composed of a red LED chip, a green LED chip and a blue LED chip packaged into a matrix of pixels, and then fixed to a plastic package. **3.3.** The indoor full color display contains driving IC and input buffer chip, which can display video, image and text information when connected to the LED display control system. **3.4.** Through the system control to drive the red LED, green LED and blue LED driving IC, 4,398 billion color conversions can be formed.

3.5. The panel and the cabinet can be spliced arbitrarily in the horizontal and vertical directions to form different sizes of display screens.

### 3.6. 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 angliled 記載 Qianglil consumption.







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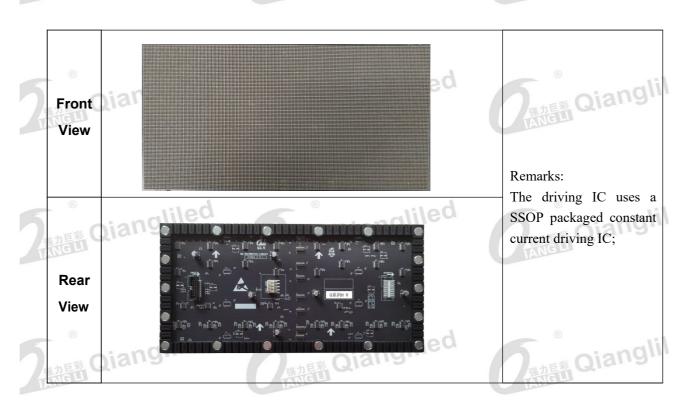
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### 3.7. Module Picture



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### 3.8. Suggestion Cabinet





### Technical Specification 4.

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## 4.1. Screen

Brightness granglille	≥600cd/m²	Brightness Uniformity	>0.95 Qiangl
Horizontal Viewing Angle	140±10 degree	Vertical Viewing Angle	130±10 degree
Best Viewing Distance	≥4.5m	Operation Environment	Indoor
Max Power Consumption ≤273 W/m <sup>2</sup>		liled	®
Distribution power (maximum	power per square÷78%÷ 85%)	≤412W/m²	RATER Qiany"
Grayscale	13-14bits (RGB each)	Display Color	4398 Billion
Frame Frequency	≥60 frame/sec	Refresh Frequency	≥6000Hz

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Date Qianglile	Computer control,	lileu	ojanglill	
Control Mode	Point-to-point	Brightness	256-grade manual /	
Control Mode	Video synchronization	Video synchronization Adjustment a		
	Real-time display	ne display		
Innut Cinnel	DVI/VGA , Video (multiple forma	ts)RGBHV 、 Compo	osite video signal 、	
Input Signal	S-VIDEO YpbPr(HDTV)	liled	8	
Average Failure Free Time	≥5,000 hours	0	<sup>通力E影</sup> Qianghin	
Attenuation		Continuous out of	0	
(3 years later)	≤15%	control point	0	
Discrete Out of Control	< 0.0001 , 0 when leaving the	Plind anat rate	<0.0003, 0 when	
Point ®	factory	Blind spot rate	leaving the factory	
Operating temperature	-20-40°C	Operating	10 % -65 % RH(No	
range		Humidity	condensation)	
	Over temperature / overload / pow	er down / image com	pensation /various	
Protection performance	correction technologies / overcurrent / overvoltage / lightning protection			
	(optional)			
4.2. Module Qaten Qiangliled				

# Qiangliled 4.2. Module

Pixel Pitch	2.5mm	Pixel Density	<b>160000Dots/</b> ㎡	
Configuration	1R1G1B	LED Lamp	SMD1515	
Size (Width*Height*Thickness)	320*160*7.5mm	Weight	0.25kg±0.01kg	
Structure	Light drive in one	Resolution	128*64=8192Dots	

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Input Voltage (DC)	4.5±0.1V	Maximum Current	≤3A MGLI
Power Consumption	≤14W	Driving Method	Constant Current
	14VV	Driving Method	1/32 Scan
40A Power Supply for	9-10pcs module	50A Power Supply for	12-13 pcs module
40A PFC Power Supply for	12-13pcs module	80A Power Supply for	20-21 pcs module
		80A Power Supply for	
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Signal Pin	IANG		ANG

# **Zatan** Qiangine Signal Pin 5.

HUB75E						
8	Pin	Signal	Function	Pin	Signal	<sup>®</sup> Function
7. Dest. Giang	1	RD1	Red data signal	2	GD1	Green data signal
1 0 0 2	3	BD1	Blue data signal	4	GND	GND
3	5	RD2	Red data signal	6	GD2	Green data signal
5 0 0 6	7	BD2	Blue data signal	8	Е	Line power control signal
7 • • 8 9 • • 10 10	1690	А	Line power control	<b>d</b> <sub>10</sub>	B	Line power control signal
11 Image: Constraint of the second	11	C	Line power control signal	12	D	Line power control signal
15 🔵 🔵 16	13	CLK	Clock signal	14	LAT	Data latch signal
5 ojand	15	OE	Clock signal	016	GND	GND
			通力E彩 Qiang ANGU		山 山 山	

#### Product Model Naming Instructions 6.

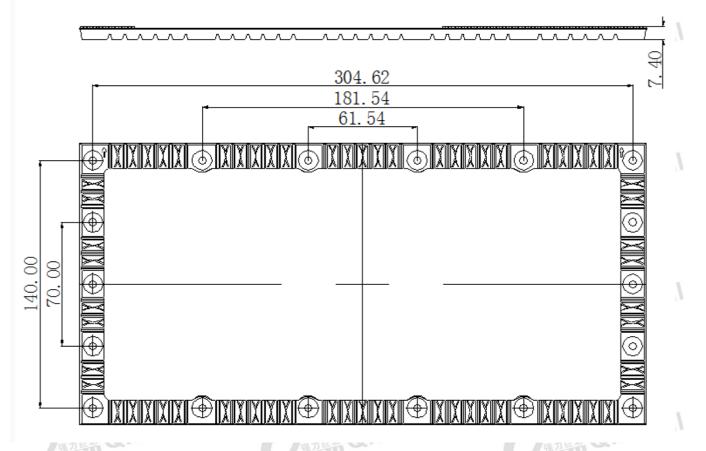
5 maliled	endliled •	glil
	versio numbe decod lamp applicat dots	esolution) n number of scans ing method model ion scenario spacing
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# 7. Mounting Hole Bitmap



## 7.1. Installation hole bitmap of panel:



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

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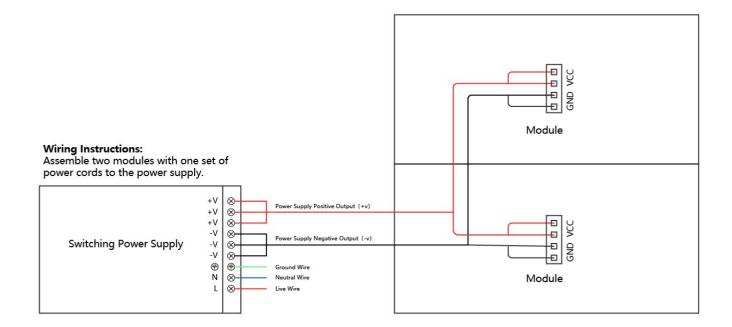
# 8. Installation Instructions

**8.1. Diagram of wiring between power supply and panel** (this picture is for reference only, and the specific wiring method refers to the actual product):



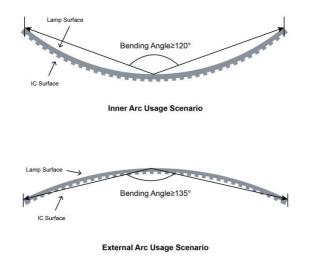
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## 8.2. Amplitude range:

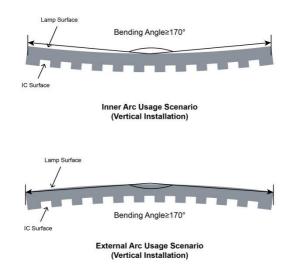
**8.2.1** Schematic diagram of transverse assembly bending angle: external arc bending angle  $\ge$  135 °, internal arc bending angle  $\ge$  120 °



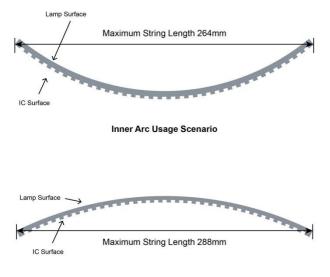
## Note: No excessive bending to prevent module damage!



Diagram of bending angle of vertical assembly: inner/outer arc bending angle ≥ 170 °



**8.2.2** Schematic diagram of chord length of horizontal assembly: the chord length of outer arc bending is 288-320mm, and the chord length of inner arc bending is 246-320mm

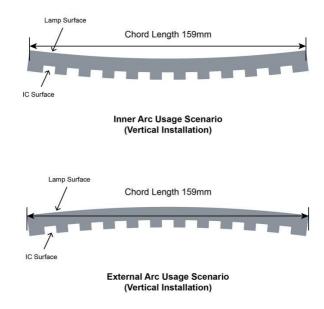


External Arc Usage Scenario

Schematic diagram of chord length for vertical assembly: inner/outer arc bending chord length 159-



### 160mm

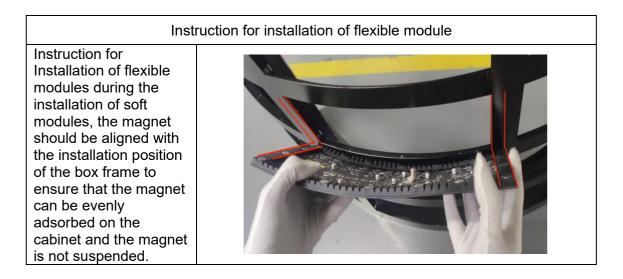


## Note: No excessive bending to prevent module damage!

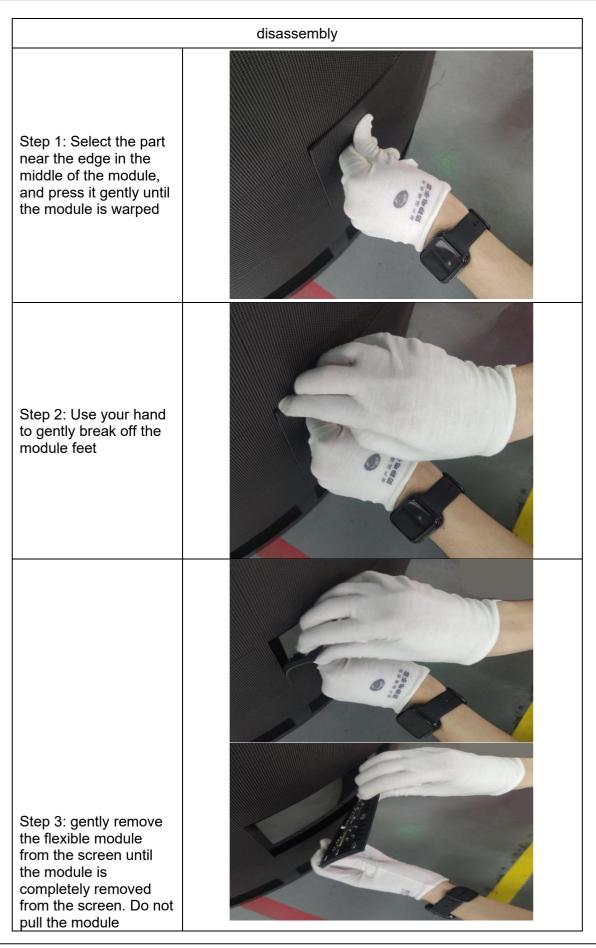
## 8.3 Installation Introduction:

**8.3.1.** Installation mode of display screen: It can be used as an indoor rental, and at the same time, it uses strong magnetic adsorption to support traditional installation methods such as magnetic absorption, hoisting and wall mounting, and it can also support bending installation to meet the needs of various indoor installation environments.

8.3.2. Installation guidance of soft module:









violently during the removal! Do not crush the surrounding modules to cause lamp knocking.



**8.4** Acceptance requirements and methods for display screen:

**8.4.1.** Screen brightness: turn the screen to full bright state, adjust the brightness effectiveness rate in the test software to 80% on the computer, and use a light gun to measure the brightness of the screen within 10 minutes. The light gun shall be aimed at the screen when measuring the brightness. It is better to keep the light gun level with the screen when measuring, so as to ensure that the black position of the observation window covers more than 16 pixels, and adjust the focal length for measurement.

**8.4.2** Grounding: the switch power supply shell, cabinet and screen structure shall be properly grounded, and the grounding point shall be properly marked, and spot inspection shall be conducted every six months;

**8.4.3** Lightning protection: the buildings are required to be equipped with lightning rods or lightning strips and effectively grounded. The distribution box is required to be equipped with surge protectors. The lightning protection facilities shall be spot checked every six months.