

TANG LI

Dangliled Qiangliled

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(Manigur Qianglil

**Product Specification** 

Designation Qiangliled

Qiangliled

**National Qianglil** 

Product: Indoor Full Color P2.5 1/32 Scan Module

Item No.: Q2.5-32S-Pro-1515

Version: 2.1

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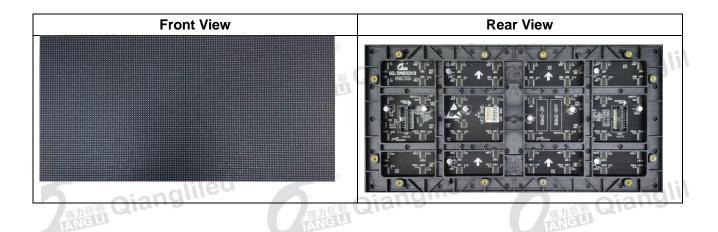
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### 1. Module Picture



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# 2. Suggestion Cabinet -(640\*480 MGLED)





# 3. Technical Specification

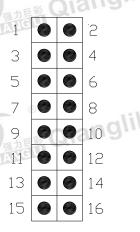
過力巨彩 IANG U	Pixel Pitch 2.5 mm		Pixel Density	160000Dots/m <sup>2</sup>	
	Configuration 1R1G1B		LED Lamp	SMD1515	
	Size (Width*Height*Depth) 320*160*15mm		Weight	0.46kg±0.01kg	
	Structure	Lamp & IC in same PCB	Resolution	128*64=8192Dots	
Module	Input Voltage (DC) 4.5±0.1V		Maximum Current	≤5.2 A ⊚	
强力巨彩 IANG LI	Power ≤24 W		Driving Method	Constant Current 1/32 Scan	
	40A Power Supply for	5-6 pcs module	80A Power Supply for	10-12 pcs module	
®	40A PFC Power Supply for	6-7 pcs module	house	®	
强力巨彩 ANG LI	Cabinet Size (Width*	Height*Thickness)	640*480*85mm (with module, cabinet, connecting plate)		
	Cabinet Pixel Density		256*192=49152 Dots		
Oaldani	Cabinet Area		0.307 m²		
Cabinet (MGLED)	Cabinet Weight	8	7.61kg ±0.05 kg		
强力巨彩	Cabinet Max Power 0	Consumption	≤140W	<b>J</b> <sub>異力馬影</sub> Qiang	
TANGE	Average Power Cons	umption (1/3 Max)	≤47W	TANG	
	Distribution Power (Pow	ver Supply Capacity 78%)	≤180W	≤180W	
®	Brightness	≥600-800 cd/m²	Brightness Uniformity	>0.95	
通力巨彩 IANG LI	Horizontal Viewing Angle	140 ±10 degree	Vertical Viewing Angle	130 ±10 degree	
	Best Viewing Distance	≥2.5 m	Black Spot Ratio	< 0.0003	
Screen	Max Power Consumption	≤457 W/m² Operation Environment		Indoor	
<b>为</b> 加加巨彩	Grayscale	14-16bits (RGB each)	Display Color	4398 Billion	
TANGL	Frame Frequency	≥60 frame/sec	Refresh Frequency	≥3840 Hz	
	Control Mode	Computer control, Point-to-point	Brightness Adjustment	256-grade manual automatic	
	Life Span	≥100,000 hours	Average Failure Free	≥10,000 hours	



Attenuation	ANGLI ANGLI	Operating Humidity	100/ CF 0/DU
(3 years later)	≤15%	Operating numbers	10%-05%KH

# 3. Signal Pin

#### HUB75E



HUB75E		ed		8	iled		e e e e e	
热馬		alig.	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	GND
5	0 (	6	5	RD2	Red data signal	6	GD2	Green data signal
7		8 10	e9	BD2	Blue data signal	il8d	E	Line power control signal
11 13		12	9	A	Line power control signal	10	В	Line power control signal
15 [		16	11	С	Line power control signal	12	D	Line power control signal
大き戦 Qianglil		13	CLK	Clock signal	14	LAT	Data locking signal	
DIE NG			15	OE	Enable signal	16	GND	GND

### 4.Precautions

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强力EUI It	em	Description Angu
Signal Quantity of the second	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):  ≤60°C, temperature control equipment is required to be installed when temperature exceeding the standard
tal Precautions	Humidity direquirement	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.
<b>5</b> 。	Storage overdue processing	If the product has been stored for more than one month, need to do 6 hours of aging test before it can be used. The aging mode is: 10%Full brightness setting-1H, 30%Full brightness setting-2H,



TANG LI		80%Full brightness setting-1H, 100%Full brightness		
		setting-1H (increase brightness gradually in aging test)		
		Indoor products have no protection level or IP30, and the		
	Duct proof	display should not be exposed to heavy dusty		
(8)	Dust-proof requirements	environments, such as decoration and renovation. Special		
。 湯力巨彩 Q	requirements	protection is required to protect the display. Installing LED		
TANG L		display screen during decoration is strictly prohibited.		
	Avoiding	Corrosive gas contains salt or acid gas in the environment,		
	corrosive gas	may cause corrosion of electronic components,		
	-	crystallization, leakage and so on.		
(8)	Avoiding ed	The display screen should not be installed in an		
强力巨彩 Q	electromagne	environment where electromagnetic radiation and radio		
TANGE	tic radiation	frequency radiation exceed the field strength of 5V/m interference source.		
		Strong light will affect the display effect and life span of		
	Avoid strong	screen. It should be install in the direction where there is		
®	light	shorter direct sun shining.		
5	andlilea	Indoor products have low level of protection, water can		
强力巨彩	Keep away	make the module short circuit, and leads to circuit device		
Hair	from water	damage, so it is necessary to keep away from the water		
		source.		
	Electrostatic hazard,	The metal components of the screen, the shell of power		
®		supply and the cabinet should be grounded well, and the		
5	Prevent	grounding resistance should be less than $10\Omega$ . Prevent		
福力巨粒 IANGUI	lightning	electrostatic damage to electronic devices in humid		
	strikes	environment, while avoiding electric leakage to harm		
		human body.  The angle and height of the display installation should be		
	Personal	appropriate, and the sharp corners should be packaged to		
(8)	injury	prevent damage to the human body from the tough outer		
Danie R Qi	ariginio	casing.		
TANGLI		Display screen for special environment (1, seaside,		
		swimming pool, bathing room, basement, tunnel; 2,		
		chemical environment, vulcanization environment,		
	Special	halogen environment; 3, dust, dusty environment; 4,		
®	environment	strong ultraviolet environment; 5, the environment of		
了。 温力巨彩 Q	angiii	strong electromagnetic fields; 6, less than -20 degrees,		
TANGL		higher than +40 degrees of the environment),The review		
		process is required before placing the order.		
Operational	Electro-static	The worker must wear an anti-electrostatic wrist strap and		
precautions	Protection	anti- electrostatic glove. Various tools must be strictly		
5	grounded during assembly			
/ <sub>强力巨彩</sub> Q	lalis	イ ) <sub>建立真影</sub> Qiang。		
No. S	OGE Building E6 Woot V	iang'an Road, Xiang'an Torch High-Tech Industrial Zone, Xiamen, China 361100		

Website: www.qiangliled.com



TANGL	Product batch control	Different batches of products cannot be installed in the same screen, otherwise there will be color blocks (mosaic) on the display.  The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.		
5 and Qi	Product wiring			
TANGL	Disassembly and transportation	Do not throw, push, squeeze or press the module to avoid damaging the display screen.		
® 過力巨彩 Q.I TANG L	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.		
B 强力巨彩 TANG I	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 6.0-8.0 Kgf.cm, and that of M3 screw is 4.0-6.0 Kgf.cm.		
B D TANGI 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.		
® Wate彩 Qi	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.  Temperature and humidity meters should be equipped on		
5	Environmenta I inspection	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.		
强力巨影 CX. TANG I	Requirement s for moisture proof	Within 10% ~ 65% RH relative humidity  Fixed 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.  Screen When the relative humidity of the		
了 <sub>强力</sub> 系 Qi	angillos	environment is over 65% RH,		

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ANGE Qiangliled	ANG IANG	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.  When the display screen is not used for a long time, it is necessary to preheat and dehumidify the whole screen for 8H before
Date Qiangliled	· · · · · · · · · · · · · · · · · · ·	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).
2 angliled	(B) ANG I	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
之 Angliled	· · · · · · · · · · · · · · · · · · ·	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. After finished the display, need to put it back to flight case, sealed and
2 Qiangliled	Rental screen display:	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
2 Angii Qiangliled	· · · · · · · · · · · · · ·	long time, it is necessary to reduce the brightness of 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.
5 Qiangliled	0	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,



Avoid construction work to the installed LED screen	It is strictly forbidded screens as outdoor especially in the open lt is strictly forbidden to rebuild afte LED display screen, so as to previous screen from being affected by the and dust, such as welding, electric equipment.	er the installation of the ent the LED display impact of high current
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<b>D</b> B  C  C  C  C  C  C  C  C  C  C  C  C	Qiangliled	(B) Qianglil
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