

TANG LI

**Dane Qiangliled** 

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Product Specification

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**Nation** Qiangliled

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**National Qianglil** Qianglil

Product: Indoor Full Color P1.6 1/32 Scan Module

Item No.: Q1.6-32S-Pro-1212

Version: 2.7

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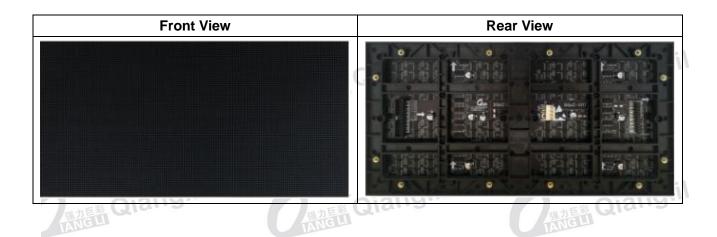
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#### 1. Module Picture



TANG LI

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



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## 3. Technical Specification

8	Pixel Pitch	1.666 mm	Pixel Density	360 000 Dots/m²	
7000年10日彩	Configuration	1R1G1B	LED Lamp	SMD 1212	
TANGL	Size (Width*Height*Depth)	320*160*14.5mm	Weight	$0.47 \mathrm{kg} \pm 0.01 \mathrm{kg}$	
Module -	Structure	Lamp & IC in same PCB	Resolution	192*96=18432 Dots	
Wodule	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤6.6 A	
强力巨彩 TANG LI	Power Consumption	≤30 W ANGLI	Driving Method	Constant Current 1/32 Scan	
	40A Power Supply for	3-4 pcs module	80A Power Supply for	8-10 pcs module	
®	40A PFC Power Supply for	4-5 pcs module	ngliled	S eandli	
强力巨彩 IANG LI	Cabinet Size (Width*I	Height*Thickness)	640*480*84.5mm (with module, cabinet, connecting plate)		
	Cabinet Pixel Density	,	384*288=110 592 Dots		
	Cabinet Area		0.307 m²		
Cabinet (MGLED)	Cabinet Weight	6 013	7.67kg ±0.05 kg	Signali	
選力巨彩 JANGU	Cabinet Max Power C	Consumption	≤178W	<sub>福力巨彩</sub> IANGII	
	Average Power Cons	umption (1/3 Max)	≤59W		
-	Distribution Power (Pow	ver Supply Capacity 78%)	≤228W		
(B)	Brightness	≥600cd/m²	Brightness Uniformity	>0.95	
提力巨彩 IANG LI	Horizontal Viewing Angle	160 ±10 degree	Vertical Viewing Angle	160 ±10 degree	
	Best Viewing Distance	≥1.7 m	Black Spot Ratio	< 0.0003	
Screen	Max Power Consumption ≤580 W/m²		Operation Indoor		
强力長彩	Grayscale 14-16bits (RGB each)		Display Color 4398 Billion		
TAINE	Frame Frequency	≥60 frame/sec	Refresh Frequency	≥3840 Hz	
	Control Mode	Computer control, Point-to-point	Brightness Adjustment	256-grade manual /	
<b>5</b>	Life Span	≥100,000 hours	Average Failure Free	≥10,000 hours	



TANGL	Attenuation	≤15% TANGLI	Operating Humidity	10%-65%RH
	(3 years later)	\(\sigma \)		1070-0370KH

#### 3. Signal Pin

# HUB320angliled

TAIN	100		ŀ
1	•	•	2
3	•	•	4
5	•	•	6
7	•	•	8
9	•	•	10
11	•	•	12
13	•	•	14
15	•	•	16
17	•	•	18
19	•	•	20
21	•	•	22
23	•	•	24
25	•	•	26

HUB320			oianum			ojangii	
NGIII		Pin	Signal	Function	Pin	Signal	Function
• •	2	1	R1	Red data signal	2	G1	Green data signal
• •	4	3	B1	Blue data signal	4	GND	GND
• •	6	5	R2	Red data signal	6	G2	Green data signal
• •	lilo 8	64	B2	Blue data signal	8	GND	GND
• •	10	9	R3	Red data signal	10	G3	Green data signal
	12	11	В3	Blue data signal	12	GND	GND
	14 16	13	R4	Red data signal	14	G4	Green data signal
• •	18	15	B4	Blue data signal	16	GND	GND
• •	20 22 glil	e17	A	Line power control signal	18	B	Line power control
• •	24 26	19	C	Line power control signal	20	TANG D	Line power control signal
	- 4	21	Е	Line power control signal	22	GND	GND
-m/ Oi	anglil	23	CLK	Clock signal	24	LAT	Data locking signal
が見ばしく		25	OE	Enable signal	26	GND	GND

### 4.Precautions ed

4.Precat	utionsled	Quangliled Quangliled Quanglil
lt lt	em	Description
Environmen tal Precautions	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
5	Humidity requirement	Storage humidity range: 10% RH-60% RH, humidity over 60% RH requires dehumidification treatment.



TANGL		Operating humidity range: 10% RH-65% RH, If the humidity exceeds the standard, it must be dehumidified before it can be used normally.
B B B B B B B B B B B B B B B B B B 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-1H, 60%Full brightness setting-2H, 80%Full brightness setting-1H, 100%Full brightness setting-1H (increase brightness gradually in aging test)
B 温力巨彩 Q.I IANG II	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.
了 <sub>温力巨彩</sub> Qi	Avoiding corrosive gas	Corrosive gas contains salt or acid gas in the environment, may cause corrosion of electronic components, crystallization, leakage and so on.  The display screen should not be installed in an
TANG	Avoiding electromagne tic radiation	environment where electromagnetic radiation and radio frequency radiation exceed the field strength of 5V/m interference source.
® 建立巨彩 Q.	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.
TANGE	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.
® 通力巨彩 Q.I TANG LI	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.
® 過力巨彩 Q.I TANGI	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.
● ● 電力更整 Q	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

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TANGL		strong electromagnetic fields; 6, less than -20 degrees, higher than +40 degrees of the environment), The review process is required before placing the order.
为 <sub>ntell</sub> Q	Electro-static Protection	The worker must wear an anti-electrostatic wrist strap and anti- electrostatic glove. Various tools must be strictly grounded during assembly
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.
5	Product wiring	The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.
<sub>福力巨彩</sub> IANG IT	Disassembly and transportation	Do not throw, push, squeeze or press the module to avoid damaging the display screen.
® 過力巨彩 Q IANIG LI	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.
Operational precautions	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.
® 過力巨彩 Q. IANIG LI	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.
5	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.
强力是TIANGLI	Environmenta	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
®	I inspection	necessary to check whether there are any problems such as dampness, water droplets and over humidity in the
》 漫進業 Q	angliled	screen in time.



/ Wiell		- Protection	Within 100/ 650/ DH relative humidity	
TANGES		TANG	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.	
®	angliled	8	When the relative humidity of the	l i
O DE LES Q	angille	1	environment is over 65% RH,	111
TANGLI		TANGI	dehumidification treatment should be carried	
			out for the operating environment. It is	
			suggested to use the screen for more than	
		Fixed	8H per day in this environment, and doors	
®		Installation <sub>3</sub>	and windows should be closed at night to	. 1
5	angliled	Display	prevent the display from dampness.	l i
選加票	aris	Screen	When the display screen is not used for a	
ANG		TANG	long time, it is necessary to preheat and	
			dehumidify the whole screen for 8H before	
			using, so as to avoid damaging the lamp	
2		. %	tube after dampness. The dehumidification	
(B)	angliled	(8)	methods are: full brightness set 10%- 1H,	1i
温力巨彩 Q	angii	温力巨彩	full brightness set 30% 2H, full brightness	1 10
TANG LI		IANG	set 60% -2H, full brightness set 80% -2H, full	
	Requirement		brightness set 100% -1H (brightness	
	s for moisture		gradually increasing aging).	
	proof		After usage, immediately put into flight case	
®	angliled	(8)	and seal the flight case;	15
O LIE O	angillo		In each flight case, please put a desiccant or	1.0
TANGLI		TANGI	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	
®	ham	®	65% RH and in the resurgence weather, the	× 5
5	angliled	6	screen must be lighted on more than 2H	11
選加度戦		Rental	every week. After finished the display, need	
lait.		screen	to put it back to flight case, sealed and	
		display:	stored. (please check whether there is any	
		alopiay.	failure of the desiccant or hygroscopic bag in	
@	4	6	the aviation, it needs to be replaced every 2	
5 -	andliled		months, and more desiccant can increase	li,
强力巨彩 Q	angliled	强力巨利	the dryness inside the box.)	
TANGE		TANGL		
			When the display screen is not in use for a	
			long time, it is necessary to reduce the	
			brightness of the whole screen by 50% in	
®	andliled	(8)	advance and play it for 12 hours, and	15
	angillo		preheat it for "dehumidification" 12H to avoid	111



O MATTER Q	Avoid construction work to the installed LED screen	LED display screen from and dust, su equipment.	screen is damped.  While renting, do screen with water. make sure that the dried. After 2H, light and evaporate the heat.  It is strictly forbidde screens as outdered especially in the operation of the screen, so as to previous affected by the sch as welding, electrical estimates and screen.	er the installation of the ent the LED display impact of high current
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B MATER Q	iangliled	B ANGI IANGI	Qiangliled	Qiangli Qiangli
B ANGII Q	iangliled	B Manual TANGI	Qiangliled	Qiangli Qiangli
® MATIENT Q	iangliled	强力巨I IANGI	Qiangliled	B Qiangli
了 <sub>强边縣</sub> Q	iangliled	<b>一个</b>	Qiangliled	<b>O</b> ata Qiangli