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Product Specification

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Product: Indoor Full Color P1.3 1/29 Scan Module

Item No.: Q1.3-29S-Pro-1010

Version: 2.5

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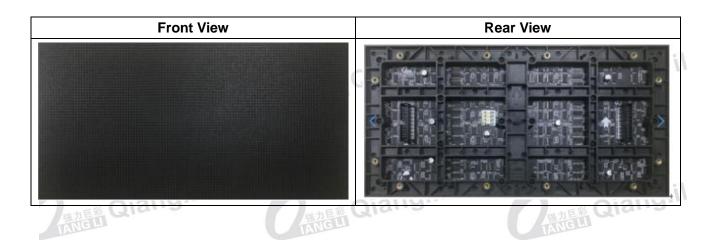
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1. Module Picture



TANG LI

2. Suggestion Cabinet -(640*480 MGLED)



No. 8065, Building E6, West Xiang'an Road, Xiang'an Torch High-Tech Industrial Zone, Xiamen, China 361100

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3. Technical Specification

Pixel Pitch	1.379 mm	Pixel Density	525 625 Dots/m²	
Configuration	1R1G1B	LED Lamp	SMD1010	
Size (Width*Height*Depth)	320*160*14.5mm	Weight	0.47kg±0.01kg	
Structure	Lamp & IC in same PCB	Resolution	232*116=26 912Dots	
Input Voltage (DC)	4.5±0.1V	Maximum Current	≤6.6 A ⊚	
Power Consumption	S30 W ADDED QIS	Driving Method	Constant Current 1/29 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	holis	(8)	
Cabinet Size (Width*I	Height*Thickness)	640*480*84.5mm (with module, cabinet, connecting plate)		
Cabinet Pixel Density		464*348=161 472 Dots		
Cabinet Area		0.307 m²		
Cabinet Weight	8	7.91kg ±0.05 kg		
Cabinet Max Power C	Consumption (Q18	≤178W) ^{選力馬} Qiany	
Average Power Cons	umption (1/3 Max)	≤59W	Alle	
Distribution Power (Pow	ver Supply Capacity 78%)	≤228W		
Brightness	≥600cd/m²	Brightness Uniformity	>0.95	
Horizontal Viewing Angle	160 ±10 degree	Vertical Viewing Angle	160 ±10 degree	
Best Viewing Distance	≥1.4 m	Black Spot Ratio	< 0.0003	
Max Power Consumption	≤580 W/m²	Operation Environment	Indoor	
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	Brightness Adjustment	256-grade manual automatic	
Life Span	≥100,000 hours	Average Failure Free	≥10,000 hours	
	Configuration Size (Width*Height*Depth) Structure Input Voltage (DC) Power Consumption 40A Power Supply for 40A PFC Power Supply for Cabinet Size (Width*I Cabinet Pixel Density Cabinet Area Cabinet Weight Cabinet Max Power C Average Power Cons Distribution Power (Pow Brightness Horizontal Viewing Angle Best Viewing Distance Max Power Consumption Grayscale Frame Frequency Control Mode	Configuration Size (Width*Height*Depth) Structure Lamp & IC in same PCB Input Voltage (DC) Power Consumption 40A Power Supply for 40A PFC Power Supply for Cabinet Size (Width*Height*Thickness) Cabinet Pixel Density Cabinet Area Cabinet Weight Cabinet Max Power Consumption Average Power Consumption (1/3 Max) Distribution Power (Power Supply Capacity 78%) Brightness Poologodom* Horizontal Viewing Angle Best Viewing Distance Max Power Consumption Grayscale 14-16bits (RGB each) Frame Frequency Computer control, Point-to-point	Configuration 1R1G1B LED Lamp Size (Width*Height*Depth) 320*160*14.5mm Weight Structure Lamp & IC in same PCB Resolution Input Voltage (DC) 4.5±0.1V Maximum Current Power Consumption 4.5 pcs module for 4.5 pcs module Cabinet Size (Width*Height*Thickness) 640*480*84.5mm (connecting plate) Cabinet Pixel Density 464*348=161 472 Do Cabinet Weight 7.91kg ±0.05 kg Cabinet Max Power Consumption (1/3 Max) 59W Distribution Power (Power Supply Capacity 78%) \$228W Brightness \$600cd/m² Brightness Uniformity Horizontal Viewing Angle Best Viewing Distance Max Power Consumption \$580 W/m² Operation Grayscale 14-16bits (RGB each) Display Color Frame Frequency \$60 frame/sec Refresh Frequency Control Mode Computer Control, Point-to-point Average Failure Free	



TANGL	Attenuation	≤15% TANGLI	Operating Humidity	10%-65%RH
	(3 years later)	213/0		10/0-03/0KH

3. Signal Pin

HUB320angliled

Ala'l			•
1	•	•	2
3	•	•	4
5	•	•	6
7	•	•	8
9	•	•	10
11	•	•	12
13	•	•	14
15	•	•	16
17	•	•	18
19	•	•	20
21	•	•	22 9111
23	•	•	24
25	•	•	26

HUB320			ojangiii				
NGT C	Pin Signal Function		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
• •	lile 8	ed	B2	Blue data signal	8	GND	GND
•	10 9	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
		21	Е	Line power control signal	22	GND	GND
-54	神間 Qianglile		CLK	Clock signal	24	LAT	Data locking signal
力巨彩 NGLI	(10.	25 OE Enable signal		Enable signal	26	GND	GND

4.Precautions **Qiangliled**

4.Precau	itions langliled	Qiangliled Qianglil		
Item		Description		
		Storage temperature range: -10 ° C - 30 ° C, over 30 ° C		
		needs to do cooling treatment.		
		Operating temperature range: -20 ° C -40 ° C, other		
· ·	Temperature	temperature range, need to install temperature control		
Environmen	requirement	equipment. Qlang		
Tatal		Lamp surface temperature (working time):		
Precautions		≤60°C, temperature control equipment is required to be		
		installed when temperature exceeding the standard		
	Lumidity	Storage humidity range: 10% RH-60% RH, humidity over		
®	Humidity	60% RH requires dehumidification treatment.		
了 mps Qi	requirement	Operating humidity range: 10% RH-65% RH, If the		



TANGL		humidity exceeds the standard, it must be dehumidified before it can be used normally.
B B JANGII Q	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 通力巨彩 Q I TANG L	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.
	Avoiding corrosive gas	Corrosive gas contains salt or acid gas in the environment, may cause corrosion of electronic components, crystallization, leakage and so on.
Avoiding electromagne tic 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.
B TANG T	Avoid strong light Keep away from water	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. 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.
B TANG I	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 10Ω . Prevent electrostatic damage to electronic devices in humid environment, while avoiding electric leakage to harm human body.
® Pate RNGII QI	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 過進聚 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 strong electromagnetic fields; 6, less than -20 degrees,

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TANGL		higher than +40 degrees of the environment),The review process is required before placing the order.			
8	Electro-static Protection	The worker must wear an anti-electrostatic wrist strap and anti- electrostatic glove. Various tools must be strictly grounded during assembly			
漫力巨彩 Q.I	Product batch control	Different batches of products cannot be installed in the same screen, otherwise there will be color blocks (mosaic) on the display.			
®	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.			
® Q.	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.			
ANGI ® Pangi ANGI	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.			
8	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.			
强力巨彩 Q. TANG II	Environmenta I 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.			
》 過加斯 Q	Requirement	Fixed Within 10% ~ 65% RH relative humidity			



THEL	s for moisture	Installation	range, it is recommended to turn on the
Tana di Antonio	proof	Display	display 1 time per day, and work at least 4
		Screen	hours to remove moisture on the display.
			When the relative humidity of the
®		(8)	environment is over 65% RH,
5	angliled	65	dehumidification treatment should be carried
選加 以	ar. 5	强力是	out for the operating environment. It is
TAING		TAINE	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.
	angliled		When the display screen is not used for a
。 環力巨彩 Q	ang.	强力巨烈	long time, it is necessary to preheat and
TANGL		TÄNGI	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,
®	angliled	®	full brightness set 30% 2H, full brightness
Parte Q	angiii	湿力巨势	set 60% -2H, full brightness set 80% -2H, full
TANGLI		TANG	brightness set 100% -1H (brightness
			gradually increasing aging).
			After usage, immediately put into flight case
			and seal the flight case;
®	angliled	®	In each flight case, please put a desiccant or
Onte NO	angillo	On the F	hygroscopic bag of not less than 50g.
IANGLI		IANGI	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
®	bott	(8)	screen must be lighted on more than 2H
	angliled	Dantal	every week. After finished the display, need
ANGLI		Rental	to put it back to flight case, sealed and
		screen	stored. (please check whether there is any
		display:	failure of the desiccant or hygroscopic bag in
			the aviation, it needs to be replaced every 2
为 anglile	batta	4 _ @	months, and more desiccant can increase
	anglileu	6	the dryness inside the box.)
開電		强力导	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
			advance and play it for 12 hours, and
(8)	®	®	preheat it for "dehumidification" 12H to avoid
5	angliled	6	damaging the light tube after the LED
/强力巨彩 🔾	10.	强力巨	强力巨利 以 10.00



TANGLI		TANGL	screen is damped.	
® Dane 彩 Q	angliled	® PATER TANGI	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.	
8	uiled	8	It is strictly forbidden to use indoor rental screens as outdoor rental screens, especially in the open air environment.	
O THE Q	Avoid	It is strictly for	orbidden to rebuild after the installation of the	
TANGLI	construction	LED display screen, so as to prevent the LED display		
	work to the	screen from	being affected by the impact of high current	
	installed LED	, , , , , , , , , , , , , , , , , , ,		
	screen			
5	angliled	6	ojangliled Sojanglil	

