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Product Specification

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Product: Indoor Full Color P1.0 1/40 Scan Module

Item No.: Q1.0-40S-Pro-0808

Version: 2.1

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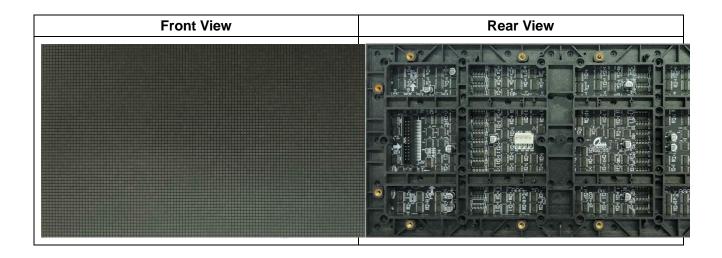
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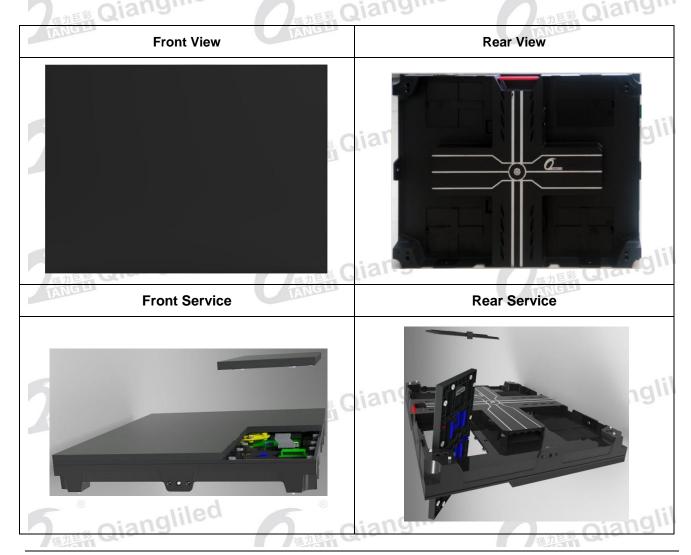


1. Module Picture



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2. Suggestion Cabinet -(640*480 MGLED)







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强力巨彩 INVGII	Pixel Pitch	1.0 mm	Pixel Density	1000000Dots/m²
1,000	Configuration	1R1G1B	LED Lamp	SMD 0808
	Size (Width*Height*Depth)	320*160*14.5mm	Weight	0.50kg±0.01kg
®	Structure	Lamp & IC in same PCB	Resolution	320*160=51200Dots
Module	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤9 A NGU
	Power Consumption	≤41 W	Driving Method	Constant Current 1/40 Scan
8	40A Power Supply for	2-3 pcs module	80A Power Supply for	6-7 pcs module
强力巨彩 ANGU	40A PFC Power Supply for	3-4 pcs module	Module weight	0.50kg±0.01kg
	Cabinet Size (Width*Height*Thickness)		640*480*85mm (with module, cabinet, connecting plate)	
	Cabinet Pixel Density		640*480=307200 Dots	
8	Cabinet Area		0.307 m ²	
Cabinet (MGLED)	Cabinet Weight		8.20kg ±0.05 kg	_{強力巨影} ANGT
	Cabinet Max Power Consumption		≤243W	
	Average Power Consumption (1/3 Max)		≤81W	
(8)	Distribution Power (Power Supply Capacity 78%)		≤312W ®	
强力巨彩 第加 区 山	Brightness	≥500cd/m²	Brightness Uniformity	>0.95
Talk	Horizontal Viewing Angle	160 ±10 degree	Vertical Viewing Angle	160 ±10 degree
(8)	Best Viewing Distance	≥1m	Black Spot Ratio	< 0.0003
Screen	Max Power Consumption	≤791 W/m²	Operation Environment	Indoor Qiangii
	Grayscale	14-16bits (RGB each)	Display Color	4398 Billion
8	Frame Frequency	≥60 frame/sec	Refresh Frequency	≥3840 Hz
	Control Mode	Computer control, Point-to-point	Brightness Adjustment	256-grade manual / automatic

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TANGL	Life Span	≥100,000 hours	Average Failure Free Time	≥10,000 hours
	Attenuation (3 years later)	≤15%	Operating Humidity	10%-65%RH
3. Signal Pin		® Wanter Qia	ingliled) _{選力巨彩} Qianglil

3. Signal Pin

HUB320

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

Pin	Signal	Function	Pin	Signal	Function
1	R1	Red data signal	2	G1	Green data signal
3	B1	Blue data signal	4	GND	GND
5	R2	Red data signal	6	G2	Green data signal
7	B2 \(\)	Blue data signal	8	GND	GND
9	R3	Red data signal	10	G3	Green data signal
11	В3	Blue data signal	12	GND	GND
13	R4	Red data signal	14	G4	Green data signal
15	B4	Blue data signal	16	GND	GND
17	A	Line power control signal	18	强力E BANG	Line power control signal
19	С	Line power control signal	20	D	Line power control signal
e0 21	E	Line power control signal	22	GND	QiaGND
23	CLK	Clock signal	24	LAT	Data locking signal
25	OE	Enable signal	26	GND	GND

4.Precautions

Item		Description	
		Storage temperature range: -10 ° C - 30 ° C, over 30 ° C	
8	angliled	needs to do cooling treatment.	
。 調力巨彩 Q	ang	Operating temperature range: -20 ° C -40 ° C, other	
Environmen	Temperature	temperature range, need to install temperature control	
tal	requirement	equipment.	
Precautions		Lamp surface temperature (working time):	
		≤60°C, temperature control equipment is required to be	
8	uiled	installed when temperature exceeding the standard	
	Humidity	Storage humidity range: 10% RH-60% RH, humidity over	

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JANGL	requirement	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 ANGII 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-2H, 80%Full brightness setting-1H, 100%Full brightness setting-1H (increase brightness gradually in aging test)
B TANG I	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.
® 過力巨彩 Q.	Avoiding corrosive gas	Corrosive gas contains salt or acid gas in the environment, may cause corrosion of electronic components, crystallization, leakage and so on.
TANGE	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 B B B B B B B B B B B B B B B B B B	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.
®	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.
Date Qinang 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.
) 强力巨彩 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.
○ 個力更彰 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,



TANGL		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.
® 過力巨彩 Q i IANG LI	Electro-static Protection	The worker must wear an anti-electrostatic wrist strap and anti- electrostatic glove. Various tools must be strictly grounded during assembly
	Product batch control	Different batches of products cannot be installed in the same screen, otherwise there will be color blocks (mosaic) on the display.
温力巨彩 Q	Product of 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.
B B D B D D D D D D D D D D D D D D D D	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.
B B B B B B B B B B B B B B	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.
B 選力巨彩 Q	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.
5	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
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TANGLI		screen in tim	ne.	TANGL
® Mate Mane I	angliled	® D ANGI	Within 10% ~ 65% RH re range, it is recommended display 1 time per day, a hours to remove moisture. When the relative humid environment is over 65% dehumidification treatment out for the operating environment.	and to turn on the and work at least 4 re on the display. lity of the 6 RH, ent should be carried
B B B B B B B B B B B B B B	angliled	Fixed Installation Display Screen	suggested to use the sc 8H per day in this environand windows should be prevent the display from When the display screen	reen for more than nument, and doors closed at night to dampness.
B 强力巨彩 Q	angliled	(B) (B) (B) (B) (B)	long time, it is necessary dehumidify the whole so using, so as to avoid dai tube after dampness. The methods are: full brightness set 30% 2 set 60% -2H, full brightness	to preheat and reen for 8H before maging the lamp le dehumidification ess set 10%- 1H, 2H, full brightness
8	Requirement s for moisture proof	8	brightness set 100% -1h gradually increasing agii	ng)
强力巨彩 Q IANG I	angiii	超力E ^E IANGI	After usage, immediate and seal the flight case; In each flight case, please hygroscopic bag of not lead to the range of 10% t	se put a desiccant or ess than 50g.
B ANG II Q	angliled	Rental screen display:	humidity, the screen shad more than 2H every had 65% RH and in the result screen must be lighted every week. After finished to put it back to flight	If month; More than rgence weather, the don more than 2H and the display, need
》 强力巨彩 Q TANGT	angliled		stored. (please check we failure of the desiccant of the aviation, it needs to months, and more design the dryness inside the best of the dryness inside the best of the dryness inside the dryness in dryness	whether there is any or hygroscopic bag in be replaced every 2 iccant can increase
う。 ラッカ巨彩 Qi	angliled	(S) 現力巨利	When the display scree long time, it is necess brightness of the whole advance and play it	sary to reduce the screen by 50% in



Avoid construction work to the installed LED	and evaporate the water by lamp and IC heat. It is strictly forbidden to use indoor rental screens as outdoor rental screens, especially in the open air environment. 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
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