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Product Specification

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Product: Indoor Full Color P2.0 1/40 Scan Module

Item No.: Q2.0-40S-Pro-1515

Version: 2.5

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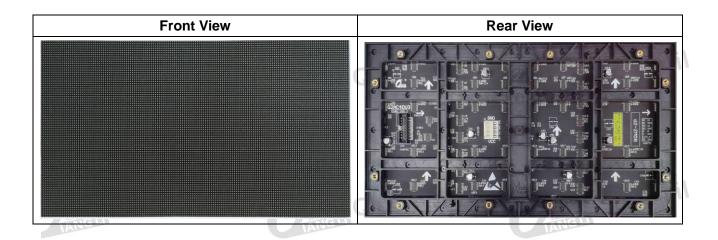
Website: www.qiangliled.com

Qianglil Qianglil

E-mail: sales@qiangliled.com



1. Module Picture



TANG LI

2. Suggestion Cabinet -(640*480 MGLED)





3. Technical Specification

	Pixel Pitch	2.0mm	Pixel Density	250000Dots/m²	
B 過力巨彩 IANGLI	Configuration	1R1G1B	LED Lamp	SMD1515	
	Size (Width*Height*Depth)	320*160*14.5mm	Weight	0.44kg±0.01kg	
	Structure	Lamp & IC in same PCB	Resolution	160*80=12800Dots	
Module	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤5A	
分 强加度彩	Power Consumption	≤23W Qia	Driving Method	Constant Current 1/40 Scan	
TANG	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	Module weight	0.44kg±0.01kg	
7 强加度彩	Cabinet Size (Width*Height*Thickness)		640*480*84.5mm (with module, cabinet, connecting plate)		
TANGE	Cabinet Pixel Density	TANGE	320*240=76800 Dots		
Cabinet	Cabinet Area		0.307 m²		
(MGLED)	Cabinet Weight		7.49kg ±0.05 kg		
5	Cabinet Max Power C	Consumption	≤135W ciangli		
IANGLI	Average Power Cons	umption (1/3 Max)	≤45W	TANGL	
	Distribution Power (Pow	ver Supply Capacity 78%)	≤173W		
	Brightness	≥600cd/m²	Brightness Uniformity	>0.95	
8 福加里彩	Horizontal Viewing Angle	140 ±10 degree	Vertical Viewing Angle	130 ±10 degree	
TANGL	Best Viewing Distance	≥2m	Black Spot Ratio	< 0.0003	
	Max Power Consumption	≤439W/m²	Operation Indoor		
Screen	Grayscale	14-16bits (RGB each)	Display Color	4398 Billion	
强力巨彩 TANG L	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 Time	≥10,000 hours	
8 個加製	Attenuation (3 years later)	≤15% Q13	Operating Humidity	10%-65%RH	

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

 TANGLI



3. Signal Pin

HUB75E

				1:1.
1	•	•	2	9111
3	•	•	4	
5	•	•	6	
7	•	•	8	
9	•	•	10	
11	•	•	12	lite
13	•	•	14	9
15	•	•	16	
17	•	•	18	
19	•	•	20	
21	•	•	22	
23	•	•	24	lite
25	•	•	26	31111

Pin	Signal	Function	Pin	Signal	Function
1	RD1	Red data signal	2	GD1	Green data signal
3	BD1	Blue data signal	4	GND	GND
5	RD2	Red data signal	6	GD2	Green data signal
7		Pluo doto cianal	8		Line power control
1	BD2	Blue data signal	0	Е	signal
ea	65	Line power control	10	5	Line power control
9 A	A	signal	10	В	signal
11 C	Line power control	40	Table 1	Line power control	
	C	signal	12	D	signal
13	CLK	Clock signal	14	LE	Data locking signal
15	OE	OE Enable signal		GND	GND
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4.Precautions

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_{强力巨彩} Item		Description / 過力巨彩 Q l al l s		
D A A B D A A B D A A B D D A D D D D D	Temperature requirement	Storage temperature range: -10 ° C - 30 ° C, over 30 ° 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 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.		
® 過力巨彩 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,		



High		000/ Full brightness softing 411, 4000/ Full brightness
TAINE		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 display should not be exposed to heavy dusty
®	Dust-proof	environments, such as decoration and renovation. Special
5	requirements	protection is required to protect the display. Installing LED
通力是 IANGLT		display screen during decoration is strictly prohibited.
	A a i alia a	Corrosive gas contains salt or acid gas in the environment,
	Avoiding	may cause corrosion of electronic components,
	corrosive gas	crystallization, leakage and so on.
®	Avoiding ed	The display screen should not be installed in an
了 _{温力巨彩} Qi	electromagne	environment where electromagnetic radiation and radio
TANG LI	tic radiation	frequency radiation exceed the field strength of 5V/m
		interference source. Strong light will affect the display offect and life span of
	Avoid strong	Strong light will affect the display effect and life span of screen. It should be install in the direction where there is
· · · · · · · · · · · · · · · · · · ·	light	shorter direct sun shining.
5	andliled	Indoor products have low level of protection, water can
强温器以	Keep away	make the module short circuit, and leads to circuit device
TAIL	from water	damage, so it is necessary to keep away from the water
		source.
	Electrostatic	The metal components of the screen, the shell of power
®	hazard,	supply and the cabinet should be grounded well, and the
Date Oi	Prevent	grounding resistance should be less than 10Ω . Prevent
IANG LI	lightning	electrostatic damage to electronic devices in humid environment, while avoiding electric leakage to harm
	strikes	human body.
		The angle and height of the display installation should be
	Personal	appropriate, and the sharp corners should be packaged to
8	injury 11ed	prevent damage to the human body from the tough outer
·)强力是形 Q	alia.	casing. Rate Quality Quality
TANCES		Display screen for special environment (1, seaside,
		swimming pool, bathing room, basement, tunnel; 2,
	Chasial	chemical environment, vulcanization environment,
®	Special environment	halogen environment; 3, dust, dusty environment; 4, strong ultraviolet environment; 5, the environment of
5	anginient	strong electromagnetic fields; 6, less than -20 degrees,
選加度数は		higher than +40 degrees of the environment),The review
		process is required before placing the order.
Operational	Electro etetic	The worker must wear an anti-electrostatic wrist strap and
Operational precautions	Electro-static Protection	anti- electrostatic glove. Various tools must be strictly
precautions	Tiolection	grounded during assembly
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No. 8065, Building E6, West Xiang'an Road, Xiang'an Torch High-Tech Industrial Zone, Xiamen, China 361100

E-mail: sales@qiangliled.com 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.		
う。 Sate RO	Product wiring	The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.		
TANGLI	Disassembly and transportation	Do not throw, push, squeeze or press the module to avoid damaging the display screen.		
服 TANG I	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 ADEN TANGI	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.		
® Dazie TANGII 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.		
B Sunte R 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.		
ANGU	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.		
福力巨彩 IANG I	Requirement s for moisture proof	Within 10% ~ 65% RH relative humidity range, it is recommended to turn on the Installation Display Screen 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,		
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IANGL	TANGI	dehumidification treatment should be carried out for the operating environment. It is
Date Qiangliled	® Janes Jangi	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
2 Angli Qiangliled	B A TANGI	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).
Dangliled Name of American	B ANGI	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
2 Qiangliled	® Jangi	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
) Angli 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.)
2 Angli Qiangliled	B MANGI	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 preheat it for "dehumidification" 12H to avoid damaging the light tube after the LED screen is damped.
5 Qiangliled	(S) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	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,



IANGL		TANG	and evaporate the heat.	water by lamp and IC
®	hilad	8	•	en to use indoor rental door rental screens, en air environment.
海力巨彩 QITANGII	Avoid construction work to the installed LED screen	LED display screen from and dust, su equipment.	orbidden to rebuild aft screen, so as to prev being affected by the ich as welding, electri	er the installation of the ent the LED display impact of high current
® 過力巨形 Qi IANGU	iangliled	通力巨I IANG	Qiangliled	(B) Qianglil Qianglil
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