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Product Specification

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Product: Indoor Full Color P3 1/32 Scan Module

Item No.: S3-32S-2020

Version: 2.3

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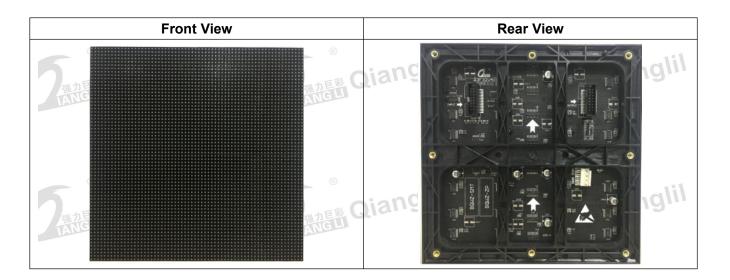
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Website: www.qiangliled.com



#### 1. Module Picture



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### 2. Suggestion Cabinet -(576\*576 Aluminum Cabinet)



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# 3. Technical Specification

	Pixel Pitch	3mm	Pixel Density	111111Dots/m <sup>2</sup>	
Module	Configuration	1R1G1B	LED Lamp	SMD2020	
	Size (Width*Height*Depth)	192*192*14mm	Weight	0.28kg±0.01kg	
	Structure	Lamp & IC in same PCB	Resolution	64*64=4096Dots	
	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤4.3A	
2000年	Power Consumption	≤20W	Driving Method	Constant Current 1/32 Scan	
TANGS	40A Power Supply for	6-7 pcs module	80A Power Supply for	12-14 pcs module	
	40A PFC Power Supply for	8-9 pcs module			
5	Cabinet Size (Width*Height*Thickness)		576*576*77mm (with module, cabinet)		
强力巨彩 TANG LI	Cabinet Pixel Density		192*192=36864 Dots		
	Cabinet Area		0.332 m²		
Cabinet	Cabinet Weight		9.3kg ±0.05 kg		
®	Cabinet Max Power Consumption		≤174W eO		
强力巨彩 IANG LI	Average Power Consumption (1/3 Max)		≤58W	<sub>强力巨彩</sub> Qiang	
Tall	Distribution Power (Power Supply Capacity 78%)		≤223W		
	Brightness	≥700cd/m²	Brightness Uniformity	>0.95	
®	Horizontal Viewing Angle	140 ±10 degree	Vertical Viewing Angle	130 ±10 degree	
强力巨彩 IANG LI	Best Viewing Distance	≥3 m IANGII	Black Spot Ratio	< 0.0003	
	Max Power Consumption	≤525W/m²	Operation Environment	Indoor	
Screen	Grayscale	14-16bits (RGB each)	Display Color	4398 Billion	
) 强力巨彩	Frame Frequency	≥60 frame/sec	Refresh Frequency	≥3840 Hz	
TANGL	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	
	Attenuation (3 years later)	≤15%	Operating Humidity	10%-65%RH	



## 4.Signal Pin

#### **HUB75E**

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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	BD2	Blue data signal	8	Е	Line power control signal
9	Α	Line power control signal	10	В	Line power control signal
3\11 <sup>e</sup>	С	Line power control signal	12	D	Line power control signal
13	CLK	Clock signal	14	LAT	Data latching signal
15	OE	Enable signal	16	GND	GND

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# 5. Precautions lied

5.Precaut	tionsliled	Sampliled Samplil
Item		Description IANG
B ANGII Q	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
Environmen tal	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.
Precautions  Output  Daniell  ANGUI  Output  Daniell  ANGUI  Output  Daniell  Danie	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)
○ □ □ □ □ □ □ □ □ □ □ □ □ □	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



TANGLI		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.
B ANGLI Q	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.
®	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.
通力巨彩 Q I I I I I I I I I I I I I I I I I I	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.
B Material Q	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.
S <sub>B</sub> he聚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.
ANG L B B B ANG L 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, higher than +40 degrees of the environment), The review process is required before placing the order.
®	Electro-static Protection	The worker must wear an anti-electrostatic wrist strap and anti- electrostatic glove. Various tools must be strictly grounded during assembly
Operational precautions	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.
力 <sub>强進影</sub> Qi	Disassembly	Do not throw, push, squeeze or press the module to avoid



IANGLI	and	damaging the display screen.		
	transportation			
B 通力巨彩 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.		
® 强力巨彩(Q)	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.		
		It is forbidden to assemble the LED module when the power is		
B B B B B B B B B B B B B B	Prohibited work with electricity	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.		
Date 形 Qi IANG Li	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.		
通力E彩 Q.I	anglileu	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		
B 通力巨彩 Q IANG LI	Requirement s for moisture proof	Installation Display Screen  Screen  How the per day in this environment, and doors and windows should be closed at night to		
® 過進彩 Q	angliled	when the display from dampness.  When the display screen is not used for a long time, it is necessary to preheat and		

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ANGII Qiangliled	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, full brightness set 30% 2H, full brightness set 60% -2H, full brightness set 80% -2H, full brightness set 100% -1H (brightness gradually increasing aging).  After usage, immediately put into flight case
Dangliled Qiangliled	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 humidity, the screen should be lighted on more than 2H every half month; More than
Dangliled Qiangliled	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 stored. (please check whether there is any failure of the desiccant or hygroscopic bag in the swinting it needs to be replaced event?
Dangliled Qiangliled	the aviation, it needs to be replaced every 2 months, and more desiccant can increase the dryness inside the box.)  Screen display:  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
Dangliled Qiangliled	preheat it for "dehumidification" 12H to avoid damaging the light tube after the LED screen is damped.  While renting, do not touch the display screen with water. If there is any water,
Dangliled Qiangliled	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.  It is strictly forbidden to use indoor rental screens as outdoor rental screens, especially in the open air environment.
Avoid construction work to the	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



TANG	installed LED screen	and dust, such as welding, electric saw and other equipment.		
® MATEN Q	angliled	® Qiangliled	® Qianglil	
B ANGII Q	angliled	Qiangliled Qiangliled	® Qianglil	
D <sub>超力巨彩</sub> QI	angliled	Qiangliled Qiangliled	® Qianglil	
D <sub>温力巨彩</sub> Q	angliled	Qiangliled Qiangliled	Qianglil	
B ANGII Q	angliled	Qiangliled	® Qianglil	
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う 過力長形 Qi	angliled	® Qiangliled	name Qianglil	