

Xiamen Qiangli Jucai Opto-Electronic Technology Co., Ltd.





1. Module Picture





2. Suggestion Cabinet -(640*480 MGLED)



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3. Technical Specification

TANGLI

	Pixel Pitch	3.0 mm	Pixel Density	105625Dots/m ²	
B A A A N G U	Configuration	1R1G1B	LED Lamp	SMD 2020	
	Size (Width*Height*Depth)	320*160*14mm	Weight	0.32kg±0.01kg	
	Structure	Lamp & IC in same PCB	Resolution	104*52=5408Dots	
Module	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤4.7 A	
2 强力巨彩 IANG LI	Power Consumption	≤22 W 建力正形 Qia	Driving Method	Constant Current 1/26 Scan	
	40A Power Supply for	5-6 pcs module	80A Power Supply for	12-13 pcs module	
®	40A PFC Power Supply for	7-8 pcs module	boli	6	
了 _{强力巨彩} ANGLI	Cabinet Size (Width*	Height*Thickness)	640*480*84mm (with module, cabinet, connecting plate)		
	Cabinet Pixel Density		208*156=32448Dots		
	Cabinet Area		0.307 m ²		
Cabinet (MGLED)	Cabinet Weight	B	7.55kg ±0.05 kg		
フェカ巨彩	Cabinet Max Power 0	Consumption	≤127W	J _{連力E} 素Qiang…	
TANG	Average Power Cons	umption (1/3 Max)	≤42W	TADIS	
	Distribution Power (Pow	ver Supply Capacity 78%)	≤163W		
®	Brightness	≥600cd/m ²	Brightness Uniformity	>0.95	
2 通力巨彩 ANGU	Horizontal Viewing Angle	140 ±10 degree	Vertical Viewing Angle	130 ±10 degree	
	Best Viewing Distance	≥3 m	Black Spot Ratio	< 0.0003	
Screen	Max Power Consumption	≤413 W/m² ⊚	Operation Environment	Indoor	
D 通力巨彩 IANGU	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	
6	Life Span	≥100,000 hours	Average Failure Free Time	≥10,000 hours	
强力巨彩	Qlang	通道戦の		通力巨彩しいローラ	



TANGL	Attenuation	≤15% migu	Operating Humidity	10%-65%RH
	(3 years later)			

3. Signal Pin

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福油 是 Qiang.	Pin	Signal	Function	Pin	Signal	Function
	1	RD1	Red data signal	2	GD1	Green data signal
3	3	BD1	Blue data signal	4	GND	GND
5 🕚 🔴 6	5	RD2	Red data signal	6	GD2	Green data signal
7 • • 8 9 • • 10 9	eq	BD2	Blue data signal	1180	E	Line power control signal
11 12 13 14	9	A	Line power control signal	10	В	Line power control signal
15 🕑 🕚 16	11	С	Line power control signal	12	D	Line power control signal
O iangli	13	CLK	Clock signal	14	LAT	Data locking signal
	15	OE	Enable signal	16	GND	GND

4.Precautions

4.Precau	utions	Q 操語 Qiangliled Q 操語 Qiangli
lt	em	Description
Environmen tal Precautions	Temperature requirement Humidity 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 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.
5. and	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

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TANG LE		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 ALER QI	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.
ß	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 Quarty environment where electromagnetic radiation and radio frequency radiation exceed the field strength of 5V/m interference source.
5	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.
IANGLI	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 ANGLI 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 10Ω . Prevent electrostatic damage to electronic devices in humid environment, while avoiding electric leakage to harm human body.
。 フ _{通力長期} Qi	Personal 20 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.
8 2 通力巨彩 QI	Special ed	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.
Operational precautions	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 controlDifferent batches of products cannot be insta same screen, otherwise there will be color ble on the display.Product wiringThe module cannot be directly connected to 2 module positive and negative poles connection right.Disassembly and transportationDo not throw, push, squeeze or press the mod damaging the display screen.Disassembly and transportationSweat or other liquid cannot be dripped on th screen during disassembly and assembly oped dripped, then use alcohol to clean the product.	ocks (mosaic) 220V, and the on must be
Product wiringmodule positive and negative poles connection right.Disassembly and transportationDo not throw, push, squeeze or press the mod damaging the display screen.Disassembly and 	on must be
and transportationDo not throw, push, squeeze or press the model damaging the display screen.Disassembly and maintenance liquidSweat or other liquid cannot be dripped on the screen during disassembly and assembly oped dripped, then use alcohol to clean the product	odule to avoid
and maintenance liquid	
	eration. If it is
Installation Torque Control Installation Torque Control Installation	oint position roduct Torque of M4
Prohibited work with electricity	vith the main the power
Prohibited touch with electricity electricity to touch the LED discrete to touch when the LED screen is in usage, so as to avel to touch when the LED screen is in usage, so as to avel to touch when the LED screen is in usage, so as to avel to touch with the lectrostatic breakdown of LED lights and choice to touch the LED discrete to touch with the lectrostatic breakdown of LED lights and choice to touch the lectrostatic breakdown of LED lights and choice to touch the lectrostatic breakdown of LED lights and choice to touch the lectrostatic breakdown of LED lights and choice to touch the lectrostatic breakdown of lectrostatic breakdown of lectrostatic breakdown of lectrostatic breakdown body friction.	void ips and other
Environmenta I inspection Environmenta is creen in time. After heaving Screen in time.	g /y rain, it is oblems such dity in the
Requirement s for moisture proof Fixed Installation Display Screen Within 10% ~ 65% RH relative I range, it is recommended to tur display 1 time per day, and wor hours to remove moisture on th When the relative humidity of th environment is over 65% RH,	n on the k at least 4 le display.



	1 Stat 14		٦
TANG LI	TANG	dehumidification treatment should be carried	
		out for the operating environment. It is	
		suggested to use the screen for more than	
		8H per day in this environment, and doors	
の 通力長利 Qiangliled	8	and windows should be closed at night to	17
Date Qiangine	0-15	prevent the display from dampness.	100
ANGU	TANGI	When the display screen is not used for a	
		long time, it is necessary to preheat and	
		dehumidify the whole screen for 8H before	
		using, so as to avoid damaging the lamp	
e ind	ß	tube after dampness. The dehumidification	
	6	methods are: full brightness set 10%- 1H,	111
强力巨彩 民 化化化	强力巨利	full brightness set 30% 2H, full brightness	
TAIL	TALL	set 60% -2H, full brightness set 80% -2H, full	
		brightness set 100% -1H (brightness	1
		gradually increasing aging).	_
R	(2)	After usage , immediately put into flight case	
5 dianglileo	6	and seal the flight case;	<i> i </i>
_{强力巨影} Qlais	强力巨环	In each flight case, please put a desiccant or	
TANGE	TANG	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	
	®	65% RH and in the resurgence weather, the	li
Danes Qiang	四次九巨王	screen must be lighted on more than 2H	1.0.0
IANGLI	TANG	every week. After finished the display, need	
		to put it back to flight case, sealed and	
		stored. (please check whether there is any	
	Rental	failure of the desiccant or hygroscopic bag in	
	screen - ®	the aviation, it needs to be replaced every 2	1:1
O angliet	display:	months, and more desiccant can increase	111
。 2 通力E 新 G ゴ の iangliled	ANG	the dryness inside the box.)	
		When the display screen is not in use for a	1
		long time, it is necessary to reduce the	
		brightness of the whole screen by 50% in	1
	8	advance and play it for 12 hours, and	
の 理想 調査 の iangliled	6	preheat it for "dehumidification" 12H to avoid	11
强力巨彩 民 日 日	强力巨利	damaging the light tube after the LED	
1411	TAILie	screen is damped.	1
		While renting, do not touch the display	-
		screen with water. If there is any water,	
R	6	make sure that the water on the screen is	
S ojangliled	5		<i> i </i>
Clairy.	强力巨	dried. After 2H, light the display screen 2H,	



TANGL	heat.	water by lamp and IC
[®] saliled	It is strictly forbidde screens as outd especially in the open	,
Avoid construction work to the installed LED screen	It is strictly forbidden to rebuild after LED display screen, so as to prever screen from being affected by the and dust, such as welding, electric equipment.	ent the LED display impact of high current
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