

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



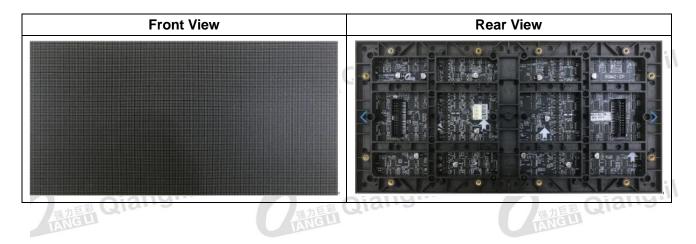
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1. Module Picture







2. Suggestion Cabinet -(640*480 MGLED)



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3. Technical Specification

TANGLI

® 通力巨彩 ANGL	Pixel Pitch 1.250 mm		Pixel Density	640 000Dots/m ²	
	Configuration 1R1G1B		LED Lamp	SMD 1010 Qiang	
	Size (Width*Height*Depth)	320*160*14.5mm	Weight	0.52kg±0.01kg	
	Structure	Lamp & IC in same PCB	Resolution	256*128=32768Dots	
Module	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤6.6 A ⊚	
了 强力巨彩 IANG LI	Power ≤30 W		Driving Method	Constant Current	
	40A Power Supply for	3-4 pcs module	80A Power Supply for	8 pcs module	
ß	40A PFC Power Supply for	4-5 pcs module	Module weight	0.50kg±0.01kg	
了 强力巨彩 IANGLI	Cabinet Size (Width*	Height*Thickness)	640*480*85mm (with module, cabinet, connecting plate)		
	Cabinet Pixel Density	,	512*384=196 608 Dots		
Cabinat	Cabinet Area		0.307 m ²		
Cabinet (MGLED)	Cabinet Weight	®	8.32kg ±0.05 kg		
つ理想	Cabinet Max Power C		≤178W	つ _{理力長期} Qiang ^m	
TAINE	Average Power Cons	umption (1/3 Max)	≤59W	TALL	
	Distribution Power (Pow	ver Supply Capacity 78%)	≤288W		
®	Brightness	≥600cd/m ²	Brightness Uniformity	>0.95	
	Horizontal Viewing Angle	160 ±10 degree	Vertical Viewing Angle	160 ±10 degree	
	Best Viewing Distance	≥1.3 m	Black Spot Ratio	< 0.0003	
Screen	Max Power Consumption	≤580 W/m²	Operation Environment	Indoor	
2 强力巨彩 IANIG LI	Grayscale	14-16bits (RGB each)	Display Color	4398 Billion	
	Frame Frequency	≥60 frame/sec	Refresh Frequency	≥3840 Hz	
	Control Mode	Control Mode Computer control, Point-to-point		256-grade manual / automatic	
6	Life Span	Span ≥100,000 hours		≥10,000 hours	
强力巨彩	Qlans	· 强力异常 Qio		_{理力目影} Qiang	



TANGL	Attenuation	<15% ANGL	Operating Humidity	10%-65%RH
	(3 years later)	\$15%		

3. Signal Pin

HUB320anglil				ed	6	ojandliled		6	ojanglil
		Pin	Signal Function		Pin Signal		Function		
1	•	•	2	1	R1	Red data signal	2	G1	Green data signal
3	•	•	4	3	B1	Blue data signal	4	GND	GND
5	•	٠	6	5	R2	Red data signal	6	G2	Green data signal
7	•	•	lile ⁸	64	B2	Blue data signal	8	GND	GND
9	•	•	10 9	9	R3	Red data signal	10	G3 1	Green data signal
11		•	12	11	B3	Blue data signal	12	GND	GND
13 15	H	-	14 16	13	R4	Red data signal	14	G4	Green data signal
17	Ť	•	18	15	B4	Blue data signal	16	GND	GND
19 21	•	•	20 22 glil	e17	A	Line power control	18	B	Line power control
23 25	•	•	24 26	19	С	Line power control signal	l 20 D		Line power control signal
				21	Е	Line power control signal	22	GND	GND
5	2 操作語 Qianglii		23	CLK	Clock signal	24	LAT	Data locking signal	
道力巨彩 IANGU			25	OE	Enable signal	26	GND	GND	

4.Precautions

4.Precautions		
Dates Qianglileo		
TANGLE	em	Description
Environmen tal Precautions	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
Santa O	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



High		humidity exceeds the standard, it must be dehumidified
IANG		before it can be used normally.
		If the product has been stored for more than one month,
	0	need to do 6 hours of aging test before it can be used. The
® .	Storage overdue	aging mode is: 10%Full brightness setting-1H, 30%Full
つ通加系の	processing	brightness setting-1H, 60%Full brightness setting-2H,
TANGL	processing	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
ß	Dust-proof 👌	display should not be exposed to heavy dusty
5	requirements	environments, such as decoration and renovation. Special
强力巨彩 GUIGU	n o qui o monto	protection is required to protect the display. Installing LED
		display screen during decoration is strictly prohibited.
	Avoiding	Corrosive gas contains salt or acid gas in the environment, may cause corrosion of electronic components,
	corrosive gas	crystallization, leakage and so on.
8	belin	The display screen should not be installed in an
つ _{品力巨影} Q	Avoiding	environment where electromagnetic radiation and radio
IANGL	electromagne tic radiation	frequency radiation exceed the field strength of 5V/m
		interference source.
	Avoid strong	Strong light will affect the display effect and life span of
ଜ	light	screen. It should be install in the direction where there is
5	angliled	shorter direct sun shining.
强力巨彩 🔾	Keep away	make the module short circuit, and leads to circuit device
1 Aug	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, eQ	supply and the cabinet should be grounded well, and the
つ _{福力巨影} Q	Prevent	grounding resistance should be less than 10Ω . Prevent \Box
TANG LI	lightning	electrostatic damage to electronic devices in humid
	strikes	environment, while avoiding electric leakage to harm human body.
		The angle and height of the display installation should be
R	Personal	appropriate, and the sharp corners should be packaged to
6	injury	prevent damage to the human body from the tough outer
· 建造彩 GEI	0	casing. Material Casher
Li		Display screen for special environment (1, seaside,
		swimming pool, bathing room, basement, tunnel; 2,
	Special	chemical environment, vulcanization environment,
®	environment	halogen environment; 3, dust, dusty environment; 4,
D., 5% O	angined	strong ultraviolet environment; 5, the environment of
通四二十 、		strong electromagnetic fields; 6, less than -20 degrees,



12/2011		higher then 140 degrees of the environment. The review
TANGE		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
	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.
う _御 小 県 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.
	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.
6	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.
	anglieu	Temperature and humidity meters should be equipped on the installation site to monitor the surrounding
ß	Environmenta I inspection	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.
う 理想報Q	Requirement	Fixed Within 10% ~ 65% RH relative humidity



A STICLE	s for moisture	Installation	range, it is recommended to turn on the
TAIL	proof	Display	display 1 time per day, and work at least 4
	P	Screen	hours to remove moisture on the display.
			When the relative humidity of the
R		R	environment is over 65% RH,
5	angliled	6	dehumidification treatment should be carried
通加邦Q	ang	强力巨彩	out for the operating environment. It is
TANG		IANG	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.
B	angliled	6	When the display screen is not used for a
_{瑞力巨彩} Q	ang	调力巨彩	long time, it is necessary to preheat and
TÂNGLI		IÂNGL	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,
B	angliled	ß	full brightness set 30% 2H, full brightness
Date R Q	angin	Dia th F.H.	set 60% -2H, full brightness set 80% -2H, full
TANGLI		IANGL	brightness set 100% -1H (brightness
			gradually increasing aging).
			After usage, immediately put into flight case
			and seal the flight case;
8	angliled	®	In each flight case, please put a desiccant or
Date NO	anging		hygroscopic bag of not less than 50g. any
TANGLI		强力E ANGI	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
®	angliled	®	screen must be lighted on more than 2H
	angino	Rental	every week. After finished the display, need
通加GUI		screen	to put it back to flight case, sealed and
		display:	stored. (please check whether there is any
		uspiay.	failure of the desiccant or hygroscopic bag in
			the aviation, it needs to be replaced every 2
®	holi	®	months, and more desiccant can increase
	angliled		the dryness inside the box.)
ANGU		通力目 ANGL	When the display screen is not in use for a
		Lait	long time, it is necessary to reduce the
			brightness of the whole screen by 50% in
			advance and play it for 12 hours, and
®	have	®	preheat it for "dehumidification" 12H to avoid
5	angliled		damaging the light tube after the LED
通加料以		通力巨利	海辺県新していた



ANGLI		TANGLISC	reen is damped.	TANGLI	
の 2 選注長期 Qit	angliled	m Cane ar	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.		
®	hild	sc	is strictly forbidde reens as outc pecially in the ope	,	
構力ENGT	Avoid construction work to the installed LED screen	LED display scr screen from be and dust, such equipment.	reen, so as to preving affected by the as welding, electric	er the installation of the ent the LED display impact of high current c saw and other	
® 2 理治長期 Qit	angliled	B D HANGLI	giangliled	® の 通力長彩 Qianglil ANGT	
® フィーム ANGIT QI	angliled	B A A IA IG II A	giangliled	® の 通力長彩 Qianglil ANGT	
® D握力E彩QI	angliled	B 强力巨彩 IANGLI	giangliled	® ANGLI ANGLI	
® 2遍力E彩QI	angliled	B A A I A I G I I A I G I I	giangliled	® の 通力長彩 Qianglil	
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