

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

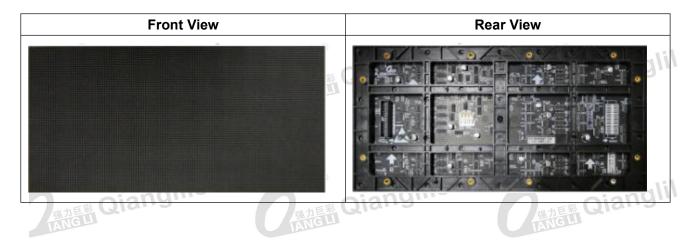




1. Module Picture







### 2. Suggestion Cabinet -(640\*480 MGLED )



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# 3. Technical Specification

#### IANG LI

	Pixel Pitch	1.860 mm	Pixel Density	288906Dots/m <sup>2</sup>		
Module	Configuration	1R1G1B	LED Lamp	SMD 1515		
	Size (Width*Height*Depth)	320*160*15mm	Weight	0.47kg±0.01kg		
	Structure	Lamp & IC in same PCB	Resolution	172*86=14792Dots		
	Input Voltage (DC)	4.5±0.1V ©	Maximum Current	≤5 A ®		
通力巨彩 IANG LI	Power Consumption	≤23 W 建力目影 Qia	Driving Method	Constant Current		
	40A Power Supply for	5-6 pcs module	80A Power Supply for	11-12 pcs module		
®	40A PFC Power Supply for	6-7pcs module	had	8		
通 通 力 E 彩 G LI	Cabinet Size (Width*Height*Thickness)		640*480*85mm (with module, cabinet, connecting plate)			
	Cabinet Pixel Density	,	344*258=88752 Dots			
Ochinat	Cabinet Area		0.307 m <sup>2</sup>			
Cabinet (MGLED)	Cabinet Weight		7.67kg±0.05 kg ®			
つ通加三彩	Cabinet Max Power	Consumption DE Q13	≤135W	つ <sub>理力長新</sub> Qiang <sup>in</sup>		
TANG E	Average Power Cons	umption (1/3 Max)	≤45W	≤45W		
	Distribution Power (Pov	ver Supply Capacity 78%)	≤173W			
®	Brightness	≥600cd/m²	Brightness Uniformity	>0.95		
了 强力巨彩 IANGU	Horizontal Viewing Angle	140 ±10 degree Q13	Vertical Viewing Angle	130 ±10 degree		
L.	Best Viewing Distance	≥1.9 m	Black Spot Ratio	< 0.0003		
Screen®	Max Power Consumption	≤439 W/m² ®	Operation Environment	Indoor		
	Grayscale	14-16bits (RGB each)	Display Color	4398 Billion		
	Frame Frequency	≥60 frame/sec	Refresh Frequency	≥3840Hz		
	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		
强力巨彩	Qlang	<sub>强力巨彩</sub> Q la	ing.	<sub>强力巨彩</sub> Qiang-		



Attenuation (3 years later) ≤15%	Operating Humidity 10%-65%RH
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## 3. Signal Pin

HUB75E	ed		®	iled		<sup>®</sup>
<b>海</b> 海馬彩 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	eģ	BD2	Blue data signal	ilgd	E	Line <sup>®</sup> power control signal
11     I2       13     14	9	A	Line power control signal	10	В	Line power control signal
15 <b>•</b> 16	11	С	Line power control signal	12	D	Line power control signal
2 <sub>確力巨彩</sub> Qiangli	13	CLK	Clock signal	14	LAT	Data locking signal
通力E和 ANGLI	15	OE	Enable signal	16	GND	GND

#### **4.Precautions** diled

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ANGLI Item		Description Angu
® 2 強力 長戦 の で Environmen	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
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.
5 通辺巨彩 Q1	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-1H, 60%Full brightness setting-2H,

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ANGLI -		200/ Full brightness softing 411, 4000/ Full brightness
IAINE		80%Full brightness setting-1H, 100%Full brightness
		setting-1H (increase brightness gradually in aging test)
B 建力E彩 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.
	Avoiding corrosive gas	Corrosive gas contains salt or acid gas in the environment, may cause corrosion of electronic components, crystallization, leakage and so on.
® フ <sub>通力巨彩</sub> Qi IANGLI	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.
® 通力巨彩 ANGLI	Avoid strong light Keep away from water	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. 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.
8 2 通力巨彩 Q.T IANGLI Q.T	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.
B <sub>羅力巨彩</sub> 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.
ANGL の 通力臣影 Q ANGL	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.
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
つ <sub>通力巨彩</sub> Qi	any	



ANGL		Different batches of products cannot be installed in the		
	Product batch control	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.		
B 2 强力巨彩 Q IANGLI	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.		
® ク <sub>强力巨彩</sub> QI IANGLI	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 建力巨彩 ANGU	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.		
5	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.		
	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. Within 10% ~ 65% RH relative humidity		
ß	Requirement s for moisture proof	Fixedrange, it is recommended to turn on theInstallationdisplay 1 time per day, and work at least 4Displayhours to remove moisture on the display.ScreenWhen the relative humidity of the environment is over 65% RH,		
<sub>强力巨彩</sub> Q	lana	A Japen Qiang Qiang		



ASSIG LI	- Hinig	dehumidification treatment should be carried
TAIL	IAIN	out for the operating environment. It is
		suggested to use the screen for more than
		8H per day in this environment, and doors
R	R	and windows should be closed at night to
う <sub>通力巨彩</sub> Qiangliled	6	prevent the display from dampness.
温力馬彩(見るいら	强力巨利	When the display screen is not used for a
TAING	TANG	long time, it is necessary to preheat and
		dehumidify the whole screen for 8H before
		using, so as to avoid damaging the lamp
		tube after dampness. The dehumidification
5. Repaired	6	methods are: full brightness set 10%- 1H,
<sub>强力巨彩</sub> Qlang	强力巨利	full brightness set 30% 2H, full brightness
TANGL	TANG	set 60% -2H, full brightness set 80% -2H, full
		brightness set 100% -1H (brightness
		gradually increasing aging).
		After usage , immediately put into flight case
beliled	(B)	and seal the flight case;
<sub>强力巨彩</sub> Qlang.	强力巨利	In each flight case, please put a desiccant or
TANGL	TANGL	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
<b>S</b> <sup>®</sup> and <b>iled</b>	B	65% RH and in the resurgence weather, the
う <sub>建力巨彩</sub> Qiangliled	强力巨利	screen must be lighted on more than 2H
TANGL	TÂNG	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
<sup>®</sup> and iled	screen	the aviation, it needs to be replaced every 2
® 2 通力E彩 Qiangliled	display:	months, and more desiccant can increase
TANGL	TÂNG	the dryness inside the box.)
		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
う <sub>建力手続</sub> Qiangliled	B	advance and play it for 12 hours, and
つ <sub>編カ巨影</sub> Qiany····	品力巨利	preheat it for "dehumidification" 12H to avoid
TANGL	TANG	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,
5 miangliled	B	make sure that the water on the screen is
<b>Qiany</b>	福加巨	dried. After 2H, light the display screen 2H,



Avoid construction work to the installed LED screen	heat. It is strictly forbidded screens as outdown especially in the operative It is strictly forbidden to rebuild aft LED display screen, so as to previous screen from being affected by the and dust, such as welding, electric equipment.	er the installation of the ent the LED display impact of high current
® 2 現力長彩 ANGLI Qiangliled		の 構力 目前 Qianglil
B 2 建力巨彩 Qiangliled	® ANGEN Qiangliled	B ANGLI Qianglil
R 2 通力E彩 Qiangliled	® ANGLI Qiangliled	® ANGLI ANGLI BANG
B 2 建力巨形 Qiangliled	® Q 福力臣彩 Qiangliled	® ANGLI Qianglil
® 2 建力長形 ANGEI Qiangliled	® ANGII Qiangliled	® ANGT Qianglil
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