

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



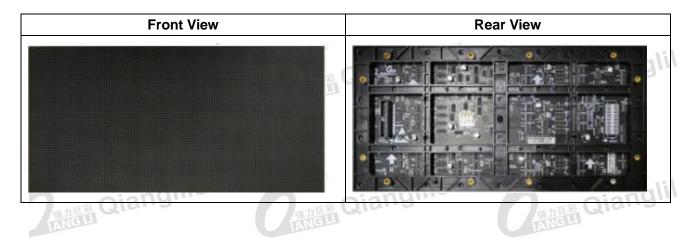
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1. Module Picture







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



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# 3. Technical Specification

### IANGLI

	Pixel Pitch	1.860 mm	Pixel Density	288906Dots/m <sup>2</sup>	
® ALNGL	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	
Module	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤5 A ⊚	
	Power Consumption	≤23 W	Driving Method	Constant Current 1/43 Scan	
	40A Power Supply for	5-6 pcs module	80A Power Supply for	11-12 pcs module	
®	40A PFC Power Supply for	6-7pcs module	boli	6	
	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	8	7.67kg±0.05 kg		
つ理力原料	Cabinet Max Power C	Consumption and Old	≤135W	つ <sub>理力E</sub> 素Qiangで	
TANG	Average Power Cons	umption (1/3 Max)	≤45W	TANIS	
	Distribution Power (Pow	ver Supply Capacity 78%)	≤173W		
®	Brightness	≥600cd/m²	Brightness Uniformity	>0.95	
2·强力巨彩	Horizontal Viewing Angle	140 ±10 degree Q13	Vertical Viewing Angle	130 ±10 degree	
1 Autor	Best Viewing Distance	≥1.9 m	Black Spot Ratio	< 0.0003	
Screen®	Max Power Consumption	≤439 W/m² ⊚	Operation Environment	Indoor	
2 强力巨彩 IANGLI	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	



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

HUB75E	ed		®	iled		<sup>®</sup>
2 <sub>理力長彩</sub> 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	i180	E	Line power control signal
11 12   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
	13	CLK	Clock signal	14	LAT	Data locking signal
福力E本 ANGLI	15	OE	Enable signal	16	GND	GND

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

4.Frecautions		
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Item		Description And
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 d	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 通力巨彩 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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1. Hereit		
TANGES		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
	Dust-proof	display should not be exposed to heavy dusty
6	requirements	environments, such as decoration and renovation. Special
<b>ALLEN Q</b>	roquironiento	protection is required to protect the display. Installing LED
TANGL		display screen during decoration is strictly prohibited.
	Avoiding	Corrosive gas contains salt or acid gas in the environment,
	corrosive gas	may cause corrosion of electronic components,
		crystallization, leakage and so on.
B	Avoiding ed	The display screen should not be installed in an
	electromagne	environment where electromagnetic radiation and radio 🥥
TANGU	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
	light	screen. It should be install in the direction where there is
8	ingin	shorter direct sun shining.
5	angilleu	Indoor products have low level of protection, water can
强力巨彩 G	Keep away	make the module short circuit, and leads to circuit device
	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
ß	hazard,	supply and the cabinet should be grounded well, and the
5	Prevent	grounding resistance should be less than $10\Omega$ . Prevent
福力原料し	lightning	electrostatic damage to electronic devices in humid
TAU	strikes	environment, while avoiding electric leakage to harm
	5011005	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
· 通加E彩 Q	ang	casing. 場力巨影 Qiang
TANGLE		Display screen for special environment (1, seaside,
		swimming pool, bathing room, basement, tunnel; 2,
		chemical environment, vulcanization environment,
	Special	halogen environment; 3, dust, dusty environment; 4,
8	environment	strong ultraviolet environment; 5, the environment of
<b>D</b> ate彩 Q	any	strong electromagnetic fields; 6, less than -20 degrees,
TANG LI		higher than +40 degrees of the environment), The review
		process is required before placing the order.
Operational	Electro-static	The worker must wear an anti-electrostatic wrist strap and
precautions	Protection	anti- electrostatic glove. Various tools must be strictly
procautions	iled	grounded during assembly
う <sub>選加兵幣</sub> Qi	anginos	つ <sub>理力手載</sub> Qianghica <sub>理力手載</sub> Qianghi
通少与市		「理たられ」



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.		
5	Product wiring	The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.		
福力目本 IANGU	Disassembly and transportation	Do not throw, push, squeeze or press the module to avoid damaging the display screen.		
。 通力巨彩 Q I ANGLI	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.		
® フィー 通力E彩 Q 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.		
® 2 通力巨彩 Q IANGLI	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.		
IANGU	Requirement s for moisture proof	Within 10% ~ 65% RH relative humidityFixedrange, 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,		
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	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 <sub>建力手載</sub> Qiangliled	ß	and windows should be closed at night to	11
Date Qiangine	0-453	prevent the display from dampness.	111
ANGU	ANG	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	
Berry B	®	tube after dampness. The dehumidification	
S. tex Qiangliled	6	methods are: full brightness set 10%- 1H,	111
通力目形 しいないし	强力巨利	full brightness set 30% 2H, full brightness	
HAIL	TAIL	set 60% -2H, full brightness set 80% -2H, full	
		brightness set 100% -1H (brightness	
		gradually increasing aging).	
R	6	After usage , immediately put into flight case	
5. Janglilea	6	and seal the flight case;	lil
<sub>强力巨彩</sub> Qlaing·	强力巨环	In each flight case, please put a desiccant or	
TANGL	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	
	B	65% RH and in the resurgence weather, the	li I
<b>D</b> ate R Qianging	Day the F	screen must be lighted on more than 2H	11.1
TANGL	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	
boss a	screen ~ ®	the aviation, it needs to be replaced every 2	121
<b>D</b> anglieu	display:	months, and more desiccant can increase	111
	编力巨利 ANG	the dryness inside the box.)	
	and the second se	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	
8	ß	advance and play it for 12 hours, and	
の <sub>建力長新</sub> Qiangliled	6	preheat it for "dehumidification" 12H to avoid	lil
- 選力 E影 し ロー・5	强力目	damaging the light tube after the LED	
AIL	ANE	screen is damped.	
		•	-
		While renting, do not touch the display screen with water. If there is any water,	
(8)	10		
5 ojangliled	6	make sure that the water on the screen is	<i> i </i>
Clairy.	强力巨	dried. After 2H, light the display screen 2H,	



ANGL	and evaporate the v heat.	water by lamp and IC	
° aliled	It is strictly forbidden to use indoor rental screens as outdoor rental screens, especially in the open air environment.		
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 in and dust, such as welding, electric equipment.	er the installation of the ent the LED display mpact of high current	
® 2 通力長彩 Giangliled			
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。 2 福力長許 Qiangliled			
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