

FICHE TECHNIQUE ECRAN P2



1. Module Picture

Front View	Rear View

2. Suggestion Cabinet -(640*480 MGLED)

Front View	Rear View
Front Service	Rear Service



3. Technical Specification

	Pixel Pitch	2.0mm	Pixel Density	250000Dots/m ²	
	Configuration	1R1G1B	LED Lamp	SMD1515	
	Size (Width*Height*Depth)	320*160*14.5mm	Weight	0.44kg±0.01kg	
	Structure	Lamp & IC in same PCB	Resolution 160*80=12800Dots		
Module	Input Voltage (DC)	4.5±0.1V	Maximum Current	≤5A	
	Power Consumption	≤23W	Driving Method	Constant Current 1/40 Scan	
	40A Power Supply for	5-6 pcs module	80A Power Supply for	10-12 pcs module	
	40A PFC Power Supply for	6-7 pcs module	Module weight	0.44kg±0.01kg	
	Cabinet Size (Width*Height*Thickness)			with module, cabinet,	
	Cabinet Pixel Density	,	320*240=76800 Dots		
	Cabinet Area		0.307 m ²		
Cabinet (MGLED)	Cabinet Weight		7.49kg ±0.05 kg		
	Cabinet Max Power Consumption		≤135W		
	Average Power Consumption (1/3 Max)		≤45W		
	Distribution Power (Power Supply Capacity 78%)		≤173W		
	Brightness ≥600cd/m ²		Brightness Uniformity	>0.95	
	Horizontal Viewing Angle	140 ±10 degree	Vertical Viewing Angle	130 ±10 degree	
	Best Viewing Distance	≥2m	Black Spot Ratio	< 0.0003	
	Max Power Consumption	≤439W/m²	Operation Environment	Indoor	
Screen	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	
	Life Span	≥100,000 hours	Average Failure Free Time	≥10,000 hours	
	Attenuation (3 years later)	≤15%	Operating Humidity	10%-65%RH	



3. Signal Pin

HUB75E

		-	
1	•	•	2
3	•	•	4
5	•	•	6
7	•	•	8
9	•	•	10
11	•	•	12
13	•	•	14
15	•	•	16
17	٠	•	18
19	•	•	20
21	•	•	22
23	•	•	24
25	•	•	26

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		Dhua data airwal			Line power control
7	BD2	Blue data signal	8	Е	signal
0		Line power control	10		Line power control
9	А	signal	10	В	signal
44		Line power control	10		Line power control
11	С	signal	12	D	signal
13	CLK	Clock signal	14	LE	Data locking signal
15	OE	Enable signal	16	GND	GND

4.Precautions

lt	em	Description	
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.	
	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,	



BowFull brightness setting-1H, 100%Full brightness setting-1H (increase brightness gradually in aging test)Dust-proof requirementsIndoor products have no protection level or IP30, and the display should not be exposed to heavy dusty environments, such as decoration and renovation. Speci- protection is required to protect the display. Installing LE display screen during decoration is strictly prohibited.Avoiding corrosive gasCorrosive gas contains salt or acid gas in the environment may cause corrosion of electronic components, crystallization, leakage and so on.Avoiding may cause corrosion should not be installed in an	ial
Dust-proof requirementsIndoor products have no protection level or IP30, and the display should not be exposed to heavy dusty environments, such as decoration and renovation. Speci- protection is required to protect the display. Installing LE display screen during decoration is strictly prohibited.Avoiding corrosive gasCorrosive gas contains salt or acid gas in the environment may cause corrosion of electronic components, crystallization, leakage and so on.	ial
Dust-proof requirementsdisplay should not be exposed to heavy dusty environments, such as decoration and renovation. Speci- protection is required to protect the display. Installing LE display screen during decoration is strictly prohibited.Avoiding corrosive gasCorrosive gas contains salt or acid gas in the environment may cause corrosion of electronic components, crystallization, leakage and so on.The display screen should not be installed in an	ial
Dust-proof requirementsenvironments, such as decoration and renovation. Spect protection is required to protect the display. Installing LE display screen during decoration is strictly prohibited.Avoiding corrosive gasCorrosive gas contains salt or acid gas in the environment may cause corrosion of electronic components, crystallization, leakage and so on.The display screen should not be installed in an	
requirementsenvironments, such as decoration and renovation. Spect protection is required to protect the display. Installing LE display screen during decoration is strictly prohibited.Avoiding corrosive gasCorrosive gas contains salt or acid gas in the environment may cause corrosion of electronic components, crystallization, leakage and so on.The display screen should not be installed in an	
Avoiding corrosive gas Corrosive gas contains salt or acid gas in the environment may cause corrosion of electronic components, crystallization, leakage and so on. The display screen should not be installed in an environment of the displa	-D
Avoiding corrosive gas Corrosive gas Corrosi	
Avoiding corrosive gas may cause corrosion of electronic components, crystallization, leakage and so on.	
corrosive gas may cause corrosion of electronic components, crystallization, leakage and so on.	nt,
Crystallization, leakage and so on.	
Avaiding I ne display screen should not be installed in an	
electromagne environment where electromagnetic radiation and radio	
tic radiation frequency radiation exceed the field strength of 5V/m interference source.	
Strong light will affect the display effect and life span of	
Avoid strong screen. It should be install in the direction where there is	
light shorter direct sun shining.	5
Indoor products have low level of protection, water can	
Keep away make the module short circuit, and leads to circuit device	e
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, supply and the cabinet should be grounded well, and the	е
$Prevent$ grounding resistance should be less than 10 Ω . Prevent	
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	
Personal appropriate, and the sharp corners should be packaged	
injury prevent damage to the human body from the tough oute	۶Г
casing. 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,	
environment 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 Electro-static The worker must wear an anti-electrostatic wrist strap ar	nd
precautions Protection anti- electrostatic glove. Various tools must be strictly	
grounded during assembly	



Prod contr	uct batch ol		ches of products cannot be installed in the n, otherwise there will be color blocks (mosaic) ny.
Prod		The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.	
and	ssembly		v, push, squeeze or press the module to avoid e display screen.
and main liquid	ssembly tenance l ection	screen during dripped, ther	er liquid cannot be dripped on the display g disassembly and assembly operation. If it is n use alcohol to clean the product, to prevent m corroding the product.
Insta Torqı Cont		tightening of from loosenin damage cau	n with power supply, it is necessary to ensure terminal joint screw to prevent joint position ng, resulting in wire burning or product sed by high contact resistance. Torque of M4 ·8.0 Kgf.cm, and that of M3 screw is 4.0-6.0
Prohi work elect		It is forbidden to assemble the LED module when the power ison. The LED module should be assembled with the main powerinput disconnected. It is not allowed to insert the power wireand signal cable when there are 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 othe components caused by human body friction.Temperature and humidity meters should be equipped or 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.	
	ibited h with ricity		
	onmenta pection		
	uirement moisture	Fixed Installation Display Screen	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 environment is over 65% RH,



	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 and windows should be closed at night to prevent the display from dampness. 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 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
Rental screen display:	brightness set 100% -1H (brightness gradually increasing aging). After usage , immediately put into flight case 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 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 aviation, it needs to be replaced every 2 months, and more desiccant can increase 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 advance and play it for 12 hours, and 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, 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	It is strictly for	orbidden to rebuild after the installation of the
construction	LED display	screen, so as to prevent the LED display
work to the	screen from	being affected by the impact of high current
installed LED	and dust, such as welding, electric saw and other	
screen	equipment.	