

Indoor Rental Screen Series LED Display

Product Series: Indoor Rental Screen Series

Department: Technology Department

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I. Product Introduction

(1)Lightweight design, easy assembly

The weight of a single box is only 7.5KG, which can be easily assembled by one person.

(2)Four-level energy-saving technology

Level I dynamic energy saving: when the signal is not displayed, the part of the drive circuit of the constant flow tube chip is turned off;

Level II black screen energy saving: when the display screen is completely black, the static consumption current of the chip drops from 6mA to 0.6mA;

Level III full-screen energy saving: when the low level is maintained for 300ms, the static consumption current of the chip drops from 6mA to 0.5mA;

Level IV shunt power supply step-down energy saving: the current first passes through the lamp bead, and then to the negative electrode of the IC, so that the forward voltage drop becomes smaller, and the conduction internal resistance also becomes smaller.

(3)Real color, high-definition visual display

The refresh rate reaches 3840Hz, the contrast ratio can reach 5000:1, and the grayscale is 16 bit. The SMD LED lamp beads composed of red, green and blue have good consistency and the viewing angle can reach more than 140°.

(4)One screen with multiple functions and flexible installation

It supports the installation of straight-face screens, curved screens, right-angle screens, and Rubik's Cube screens, with two installation methods: seat mount and ceiling mount, to meet the needs of different customers and different scenarios.

(5)Power current backup power supply, never black screen

Adjacent cabinets can supply power to each other, avoiding the black screen of the cabinet caused by power line failure, power aviation plug failure, power failure and other reasons.

(6)Drive scheme

It has the functions of blanking above and below the column, high refresh rate, improvement of darkening of the first row, low gray color cast, improvement of pitting and other functions.

(7)Bump protection corner

The protective corners can effectively protect the four corners of the cabinet, reducing the problems of bumping off the lamp and damage to the lamp beads and lampshade during transportation.

(8)Stable and reliable performance

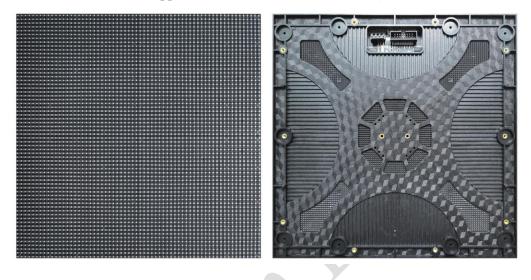
Good heat dissipation, low temperature rise, support low-voltage switching, safe and reliable, and long service life.

(9)Efficient maintenance

Fully modular design (cabinets, modules, detachable power box), support front and rear maintenance, convenient and quick.

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II. Structure Appearance



Appearance - Module(250*250*15mm)



Appearance - Die-casting Aluminum Box(500*500*100mm)

III. Product Detailed Parameters

Model Number	AS1.95	AS2.604	AS2.97	AS3.91	AS4.81
Pixel Structure (SMD)	1415	1415	1415	1921	2525
Pixel Pitch	1.95mm	2.604mm	2.97mm	3.91mm	4.81mm
Module Resolution (W×H)	128*128	96*96	84*84	64*64	52*52
Module Size (mm)	250*250*18				
Module Weight (Kg)	0.7 (Plastic module	e), 1 (Die-cas	sting aluminum	n module)
Cabinet Module Composition	2*4/2*3/2*2				
Cabinet Size (mm)		500*1000*	83 / 500*750*	*83 / 500*500*	83
	256*512/	192*384/	168*336/	128*256/	104*208/
Cabinet Resolution (W×H)	256*384/	192*288/	168*252/	128*192/	104*156/
	256*256	192*192	168*168	128*128	104*104
Cabinet Area (m ²)	0.5 / 0.375 / 0.25				
Cabinet Weight (Kg)	13.6/10.2/6.8			0	aluminum module)
Cabinet Material		_		e), Aluminum	profile (casing)
Pixel Density (dots/m ²)	262144	147456	112896	65536	43264
IP Rating			IP66		
Single-point Chromaticity /Brightness Correction	With				
White Balance Brightness (cd/m ²)		4500			
Color Temperature (K)	6500-9000				
Viewing Angle (Horizontal/Vertical)	140°/120°				
Contrast Ratio	5000: 1				
Maximum Power Consumption (W/m ²)	700				
Average Power Consumption (W/m ²)	235				
Maintenance Type	Front/Rear Maintenance				
Frame Rate	50&60Hz				
Scanning Mode (Constant Current Drive)	1/32s	1/24s	1/21s	1/10s	1/10s
Gray Scale		Arbitrary wi	ithin 65536 lev	vels of gray(16	bit)
Refresh Frequency (Hz)	3840				
Color Processing Bits	16bit				
Life Typical Value (h)	50000				
Operating Temperature/Humidity Range	-10°C-50°C/10%RH-98%RH(No Condensation)				
Storage Temperature/Humidity Range	-20°C-60°C/10%RH-98%RH(No Condensation)				

IV. Packing List

Package	Quantity	Unit
Display Screen	1	Set
Instruction Manual	1	Portion
Certificate	1	Portion
Warranty Card	1	Portion
Construction Precautions	1	Portion

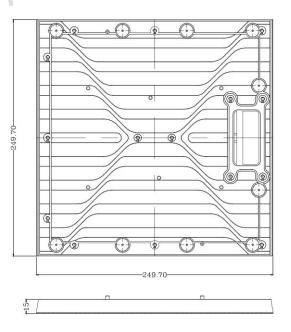
V. Accessories

Accessories Category	Name	Picture
Assembling Accessories	Power supply, signal line	
	Sleeve, screw connecting piece	

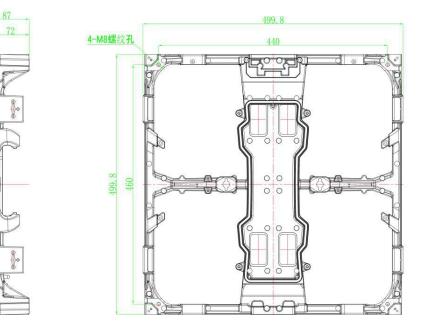
VI. Installation

6.1. Kit Installation

Kit Installation Hole Diagram



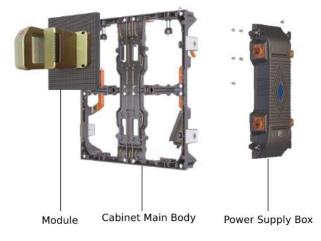
6.2. Cabinet Installation



Cabinet Installation Diagram

6.3. Cabinet Front Installation

Exploded Diagram of Front Installation of Cabinet





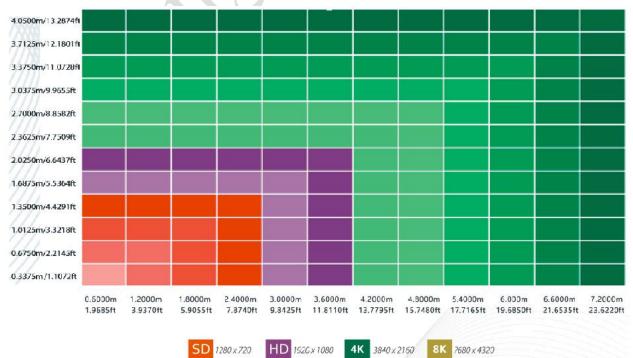


The Cabinet Before the Installation of the Finished Picture

VII. Display Installation

7.1. Connection Schematic

Display Connection Diagram



VIII. Instructions

8.1. Precautions

Project	Precautions
Temperature Range	Working temperature control at -10°C \sim 50°C
	Storage temperature control at -20°C~60°C
Humidity Range	Working humidity control at 10%RH \sim 98%RH
	Storage humidity control at 10%RH~98%RH
Anti-electromagnetic Radiation	The display screen should not be placed in an environment with large
	electromagnetic radiation interference, which may cause abnormal
	display of the screen
Anti-static	The metal casing of the power supply, box body, and screen body needs
	to be well grounded, and the grounding resistance is less than 10Ω to
	avoid damage to electronic devices caused by static electricity

8.2. Instructions

	avoid damage to electronic devices caused by static electricity
8.2. Instructions	
Project	Instructions for use
Static	Installers need to wear electrostatic rings and electrostatic gloves, and all tools
Protection	must be strictly grounded during the assembly process.
Connection	The module has positive and negative silk screen marks, which cannot be
Method	reversed, and it is strictly forbidden to connect to 220V AC.
Operation Method	It is strictly forbidden to assemble modules, cabinets, and the entire screen when the power is on, and it must be operated under the condition of complete power failure to protect personal safety; when the display is lit, personnel are prohibited from touching it, so as to avoid electrostatic breakdown caused by human body friction. components.
Disassembly	Do not drop, push, squeeze, or press the module to prevent the module from
and	falling and bumping, so as to avoid problems such as kit rupture and damage
Transportation	to the lamp beads.

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	The display screen needs to be equipped with a temperature and humidity
Environmental	meter on site to monitor the surrounding environment of the screen body, in
Inspection	order to find out whether the display screen is affected by moisture, water
	vapor and other problems in time.
	The ambient humidity is in the range of 10%RH to 65%RH. It is
	recommended to turn on the screen once a day and use it for more than 4 hours
	each time to remove the moisture from the display screen.
	When the ambient humidity is above 65%RH, the environment needs to be
	dehumidified, and it is recommended to use it normally for more than 8 hours
Lies of	a day, and close the doors and windows to prevent the display from being
Use of	damaged by moisture.
Display Screen	When the display screen has not been used for a long time, it is necessary to
	preheat and dehumidify the display screen before use, so as to avoid damage to
	the lamp tube caused by moisture. The specific method: 20% brightness for 2
	hours, 40% brightness for 2 hours, 60% brightness for 2 hours 2 hours, 80%
	brightness for 2 hours, 100% brightness for 2 hours, so that the brightness is
	gradually aging.

IX. Application Field

It is suitable for all indoor and outdoor places, such as: exhibitions, stage performances, entertainment activities, government meetings, various business meetings, etc.

