

Product Manual

F - Gold Series

LED DISPLAY



Enjoy high definition

Technology beautifies life

What you see is what you get, a new choices of vision



See present,discover future

Improve the audiovisual experience

Immersive without leaving home

F-Gold Series | Fine Pitch LED Display

Cabinet Size 600mm * 337.5mm
Module Size 300mm * 168.75mm
Full Range of Dot Pitch
0.93, 1.25, 1.56, 1.87

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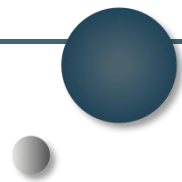
 F-Gold Series-300x168.75



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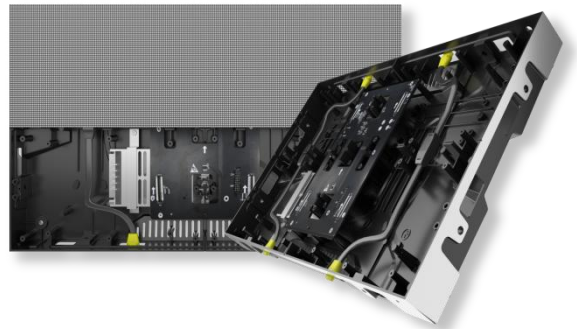
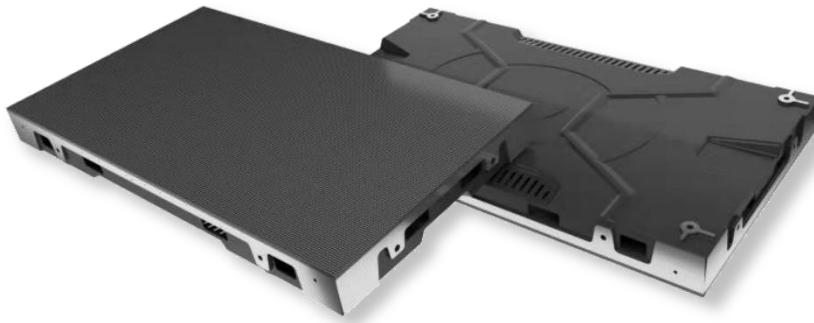
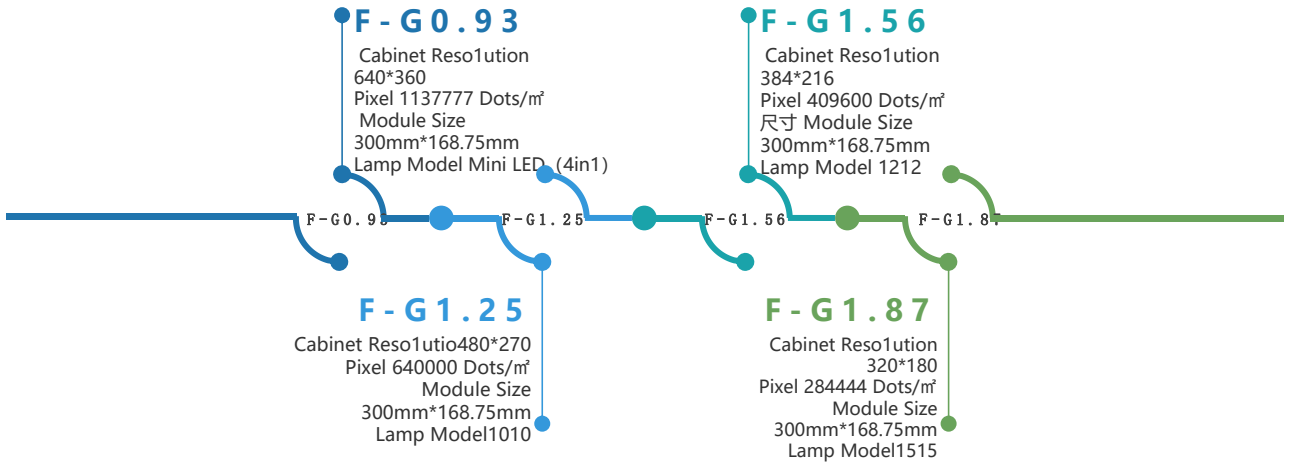


1.Scope of application

➡➡ F-Gold Series-300x168.75



This product specification is only applicable to full color SMD LED-F-Gold series-300x168.75 full series point spacing



F-Gold Series | Fine Pitch LED Display

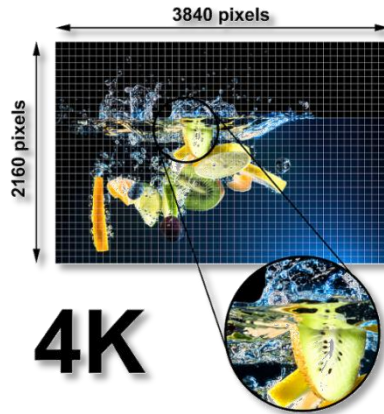
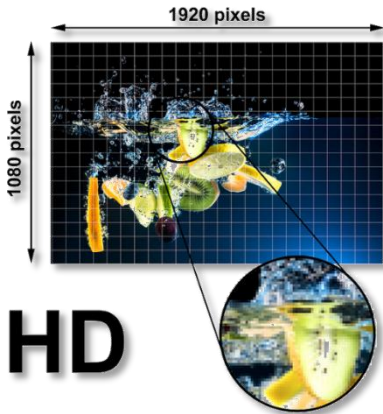
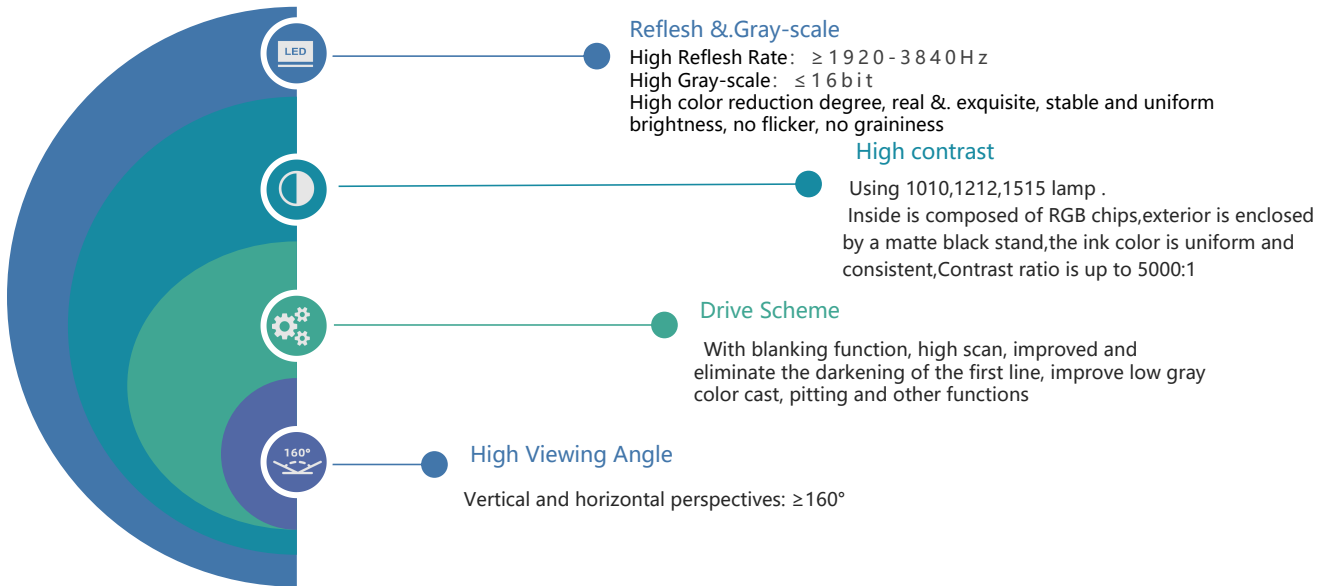
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2.Product Description

▶▶▶ F-Gold Series-300x168.75

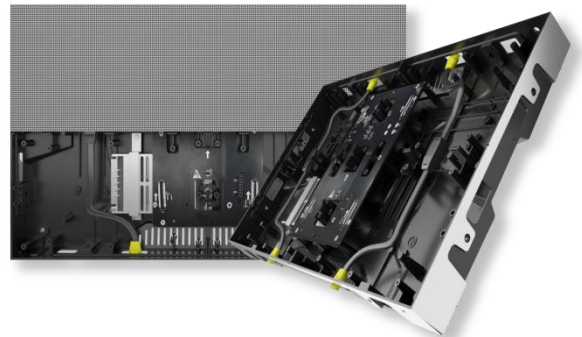


Refresh 、 Grayscale、 Drive Scheme、 Viewing Angle、 Contrast



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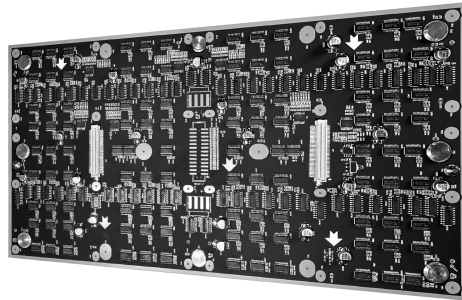


3. Product Picture

▶▶▶ F-Gold Series-300x168.75

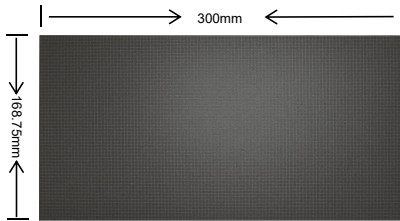


Perspective view, back view, front view



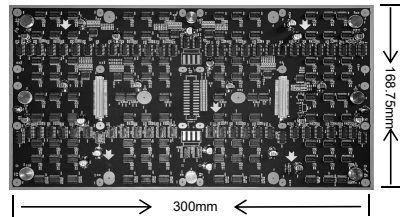
Perspective view

- Easy to install
- Direct data connection
- Replacement fast



Front View

- Inky consistent
- High smoothness
- High viewing angle

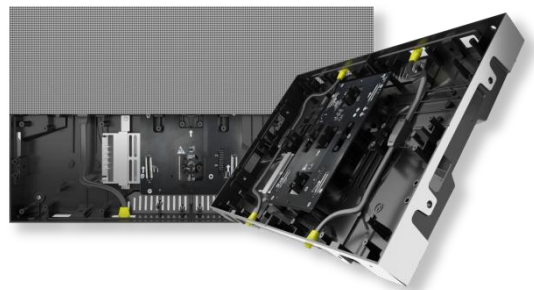


Back View

- High heat dissipation
- High-strength magnets
- Fire-proof material

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4. Technical parameters

F-Gold Series-300x168.75

Physical parameters, photoelectric parameters, electrical parameters, performance parameters, application parameters

	Parameters	Specifications			
Physical parameters	Pixel Structure (SMD)	IMD 4in1	1010	1212	1515
	Pixel Composition	1R1G1B			
	Pixel Pitch (mm)	0.93	1.25	1.56	1.87
	Pixel Density (Dots/m ²)	1137777	640000	409600	284444
	Module Size (mm)	300 (L) * 168.75 (W) * 3 (H)			
	Module Resolution (Dots)	320*180	240*135	192*108	160*90
	Module Input (V)	4.2 ~ 5			
	Module Peak Power (W)	≤ 25			
	Power Load Quantity (PCS)	4			
	Module Material	(Pure magnetic suction design without bottom shell)			
	Module Resolution (Dots)	640*360	480*270	384*216	320*180
	Cabinet Modules (Pcs)	2 * 2			
	Cabinet Size (mm)	600 (L) * 337.5 (W) * 54 (H)			
	Cabinet Weight (Kg)	≤ 6.0			
	Cabinet Flatness (mm)	< 0.1			
	Cabinet Area (m ²)	0.2025			
	Cabinet Material	Die casting aluminum			
	Module Maintenance Mode	All maintenance before			
	photoelectric parameters	Single Pixel Color/Brightness Calibration	Yes		
White Balance Brightness (Nit)		≥ 500(0~255 adjustable, adjustment step 1)			
Calibration Data Storage		Yes			
Standard Color Temperature (K)		6500 (1000~9500 adjustable)			
Refresh Rate (Hz)		≥ 3840			
Viewing Angle		Vertical horizontal perspective ≥160°			
Pixel Center Deviation		≤ 1.5%			
Brightness Uniformity		≥ 99%			
Chroma Uniformity		±0.003 Cx,Cy之内			
Color Processing Digits (Bit)		≤ 16 Bit			
Low Brightness &.High Gray Effect		Full brightness ≤ 16Bit, 20% brightness ≤ 14bit			
Image Feame Changing Frequency (Hz)		50 / 60			
Contrast Ratio		5000:1			
Driving Mode		Constant Current Driving			
Scanning Mode		1 / 64	1 / 60	1 / 64	1 / 45
Working Voltage (V)		110 ~ 240V 50 ~ 60Hz			
Peak Power (W/m ²)		≤ 500			
Average Power (W/m ²)		100 ~ 180			
application parameters		Storage Temperature (°C) &. Humidity (RH)	-20°C ~ 50°C &. 10% ~ 60%		
	Working Temperature (°C) &. Humidity (RH)	-10°C ~ 50°C &. 10% ~ 65%			
	Protection Level	IP55			
	Working Life (Hrs)	100,000			
	Working Temperature Rise Range (°C)	≤ 5			
	Installation Mode	Pedestal installation / Hanging installation / Lifting / Arc installation, etc			
Signal &.Power Double Backup	Optional				

5.The Receiving System

▶▶▶ F-Gold Series-300x168.75



Item No.: A7s K5+

- Single card supports 32 sets of RGB signal parallel output;
- Single card supports maximum 512×384 pixels;
- Support high-precision chromaticity and brightness integrated point by point correction

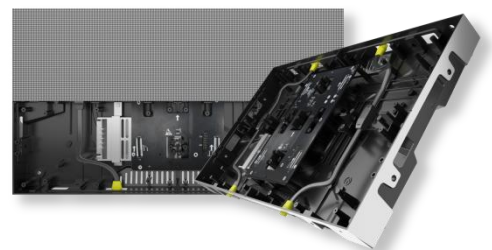


- Support low light high gray and color temperature adjustment;
- Support receiving card to extract rows and columns;
- Fast upgrade and fast send correction coefficient;

- Support intelligent module, store correction coefficient, module parameters, etc.;
- Support cabinet temperature, humidity and power monitoring;
- Support any scan type between static and 64 scans, support serial decoding scans such as 595;
- Support smart modules, store correction coefficients, module parameters, etc.;
- Support DC3.8V ~5.5V ultra-wide working voltage;
- Support the whole series of regular card sending cards of Colorlight.

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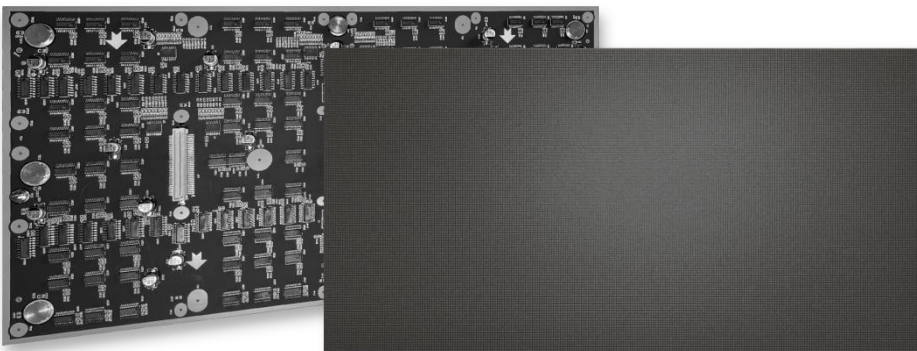
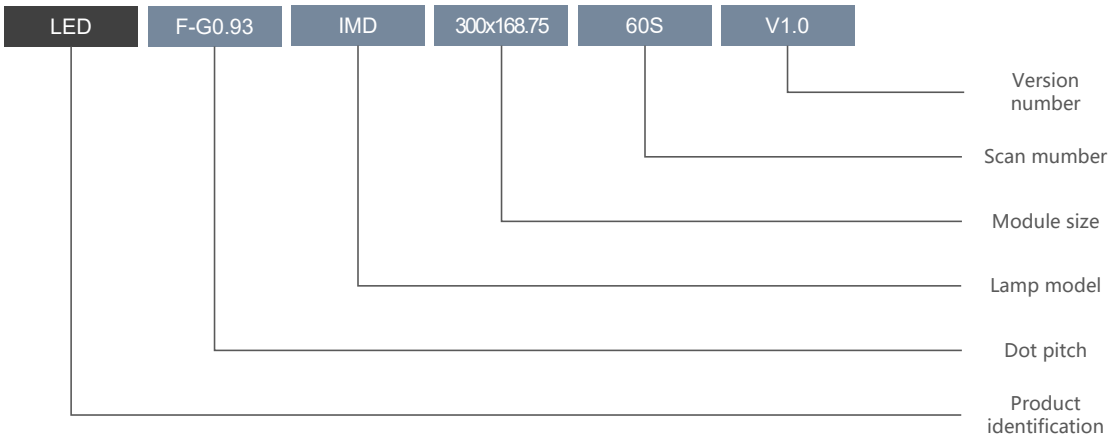


6. Model definition

➤➤ F-Gold Series-300x168.75



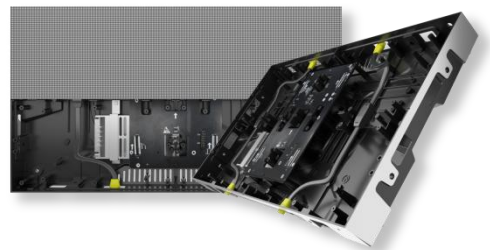
Product identification, series classification, dot pitch, package model, module size, scans number, version number



P/N: LED-F-G0.93-IMD-300x168.75-60S

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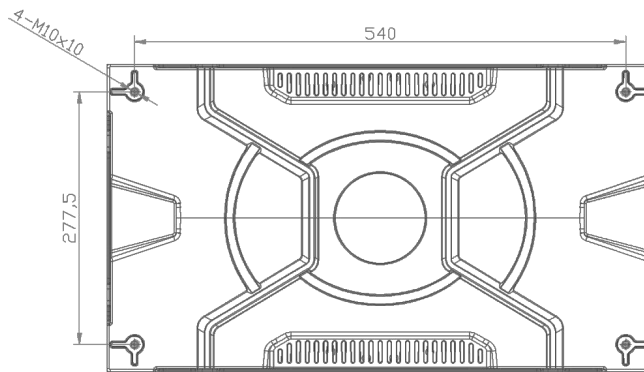
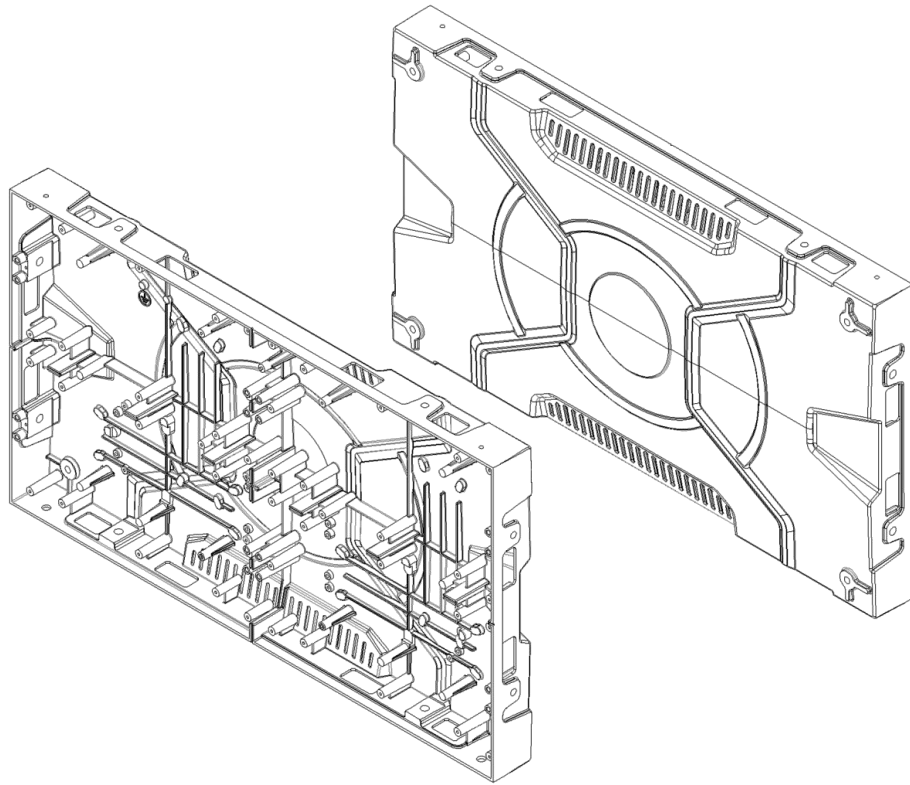


7.Cabinet structure

➡➡ F-Gold Series-300x168.75

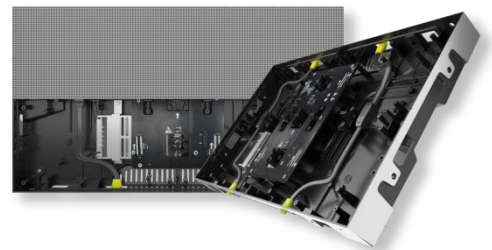


CAD diagram



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8 . Product packaging

➡➡➡ F-Gold Series-300x168.75



Outer packing diagram

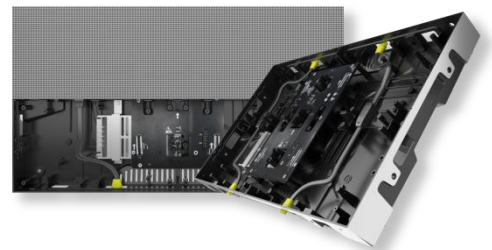


Packing Instructions:

The packing material adopts high-quality K carton, containing pearl cotton and Angle guard, which can effectively avoid damage caused by collision during transportation.

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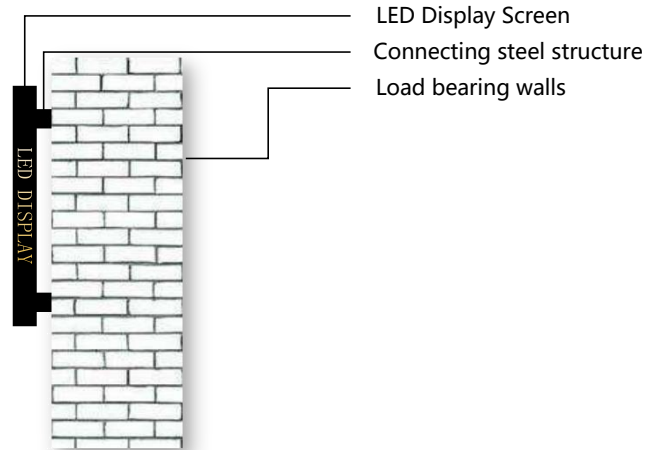


10、Installation

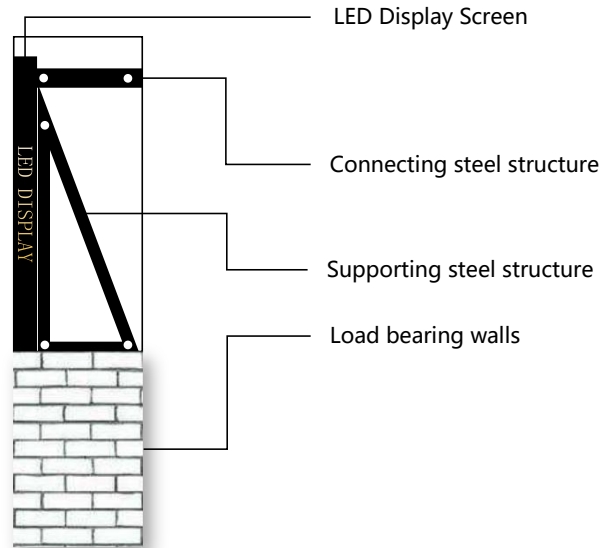
➤➤➤ F-Gold Series-300x168.75



Installation diagram



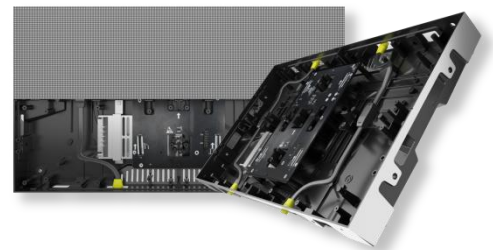
Wall mounted installation



Floor mounted installation

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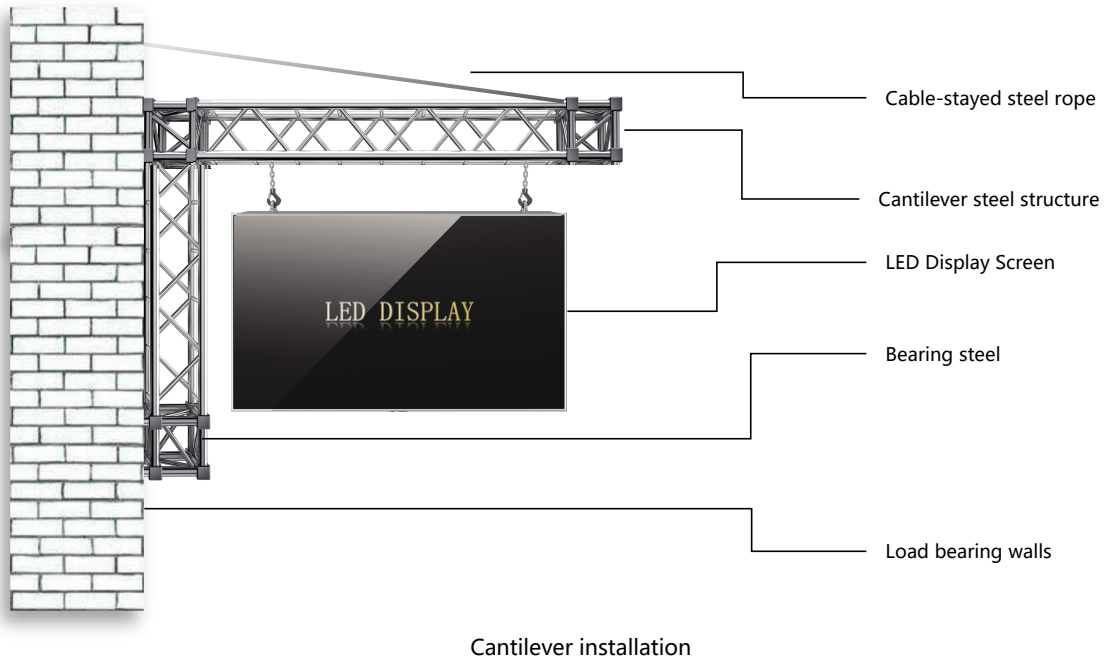
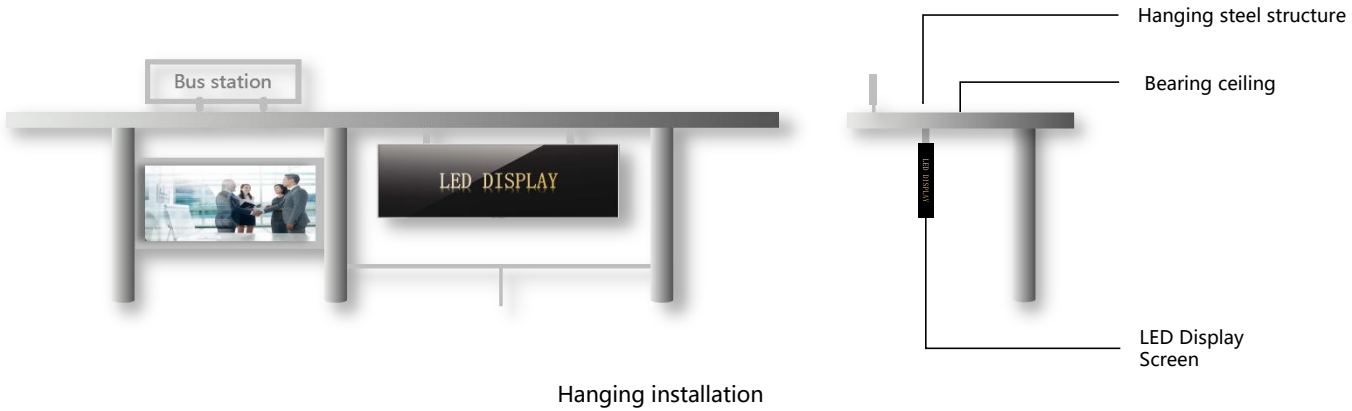


10、Installation

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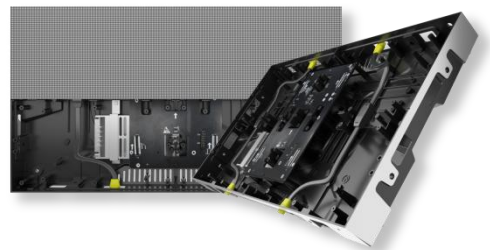


Installation diagram



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11. Matters needing attention

▶▶ F-Gold Series-300x168.75



Transportation, storage, installation, use, maintenance and other precautions



Temperature range:
The working temperature is controlled at -20~50°C;
The storage temperature is controlled at -10 ~ 30°C.



Humidity range:
Working humidity is controlled at 10%-65%RH;
The storage humidity is controlled at 10%-60%RH.



Waterproof grade:
Waterproof grade of indoor products is IP55;
Note: If the inside of the display is exposed to water, it may easily cause a short circuit, resulting in damage to the circuit board and components.



Dustproof grade:
Waterproof grade of indoor products is IP55;
Note: The display screen is exposed to a dusty environment, which may easily cause a short circuit, resulting in damage to the circuit board and components.



Anti-electromagnetic radiation:
The LED screen should not be placed in an environment with high 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.



Static Protection:
Installers need to wear electrostatic rings and electrostatic gloves, and all tools must be strictly grounded during the assembly process.



Assignment style:
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.
Note: When the display is on, it is forbidden to be touched by personnel, so as to avoid the static electricity generated by human body friction from breaking down the LED and components.



Transportation
Do not drop, push, squeeze, or press the module to prevent the module from falling and bumping, so as to avoid problems such as kit rupture and damage to the lamp beads.



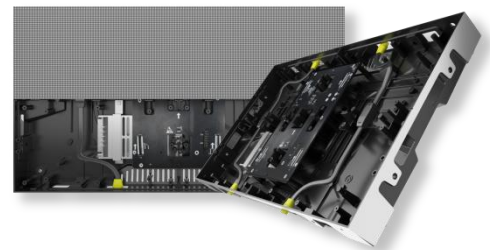
connection method
The module has positive and negative silk screen marks, which cannot be reversed, and it is strictly forbidden to connect to 220V AC.



Environmental inspection:
The installation site needs to be equipped with a temperature and humidity meter to monitor the surrounding environment of the screen, so as to find out whether the screen is affected by moisture, water vapor and other problems in time.

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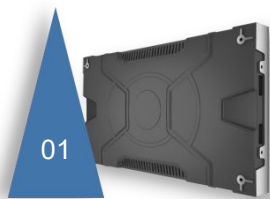
12. Instructions for use

➡➡ F-Gold Series-300x168.75



Preheating dehumidification, normal dehumidification, over-range dehumidification

Correct use of LED display



Dehumidification within normal range

The ambient humidity is within the range of 10%-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 screen.



Dehumidification within the exceeding standard range

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 a day, and close the doors and windows to prevent the display from being damaged by moisture.



Method of Preheating and dehumidification

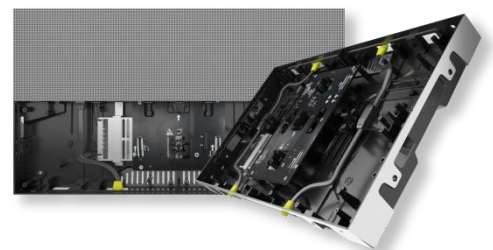
When the display screen has not been used for a long time, it is necessary to preheat and dehumidify the display screen before use to avoid damage to the lamp tube caused by moisture.

Specific ways:
20% brightness for 2 hours, 40% brightness for 2 hours, 60% brightness for 2 hours, 80% brightness for 2 hours, 100% brightness for 2 hours, dehumidification by increasing brightness.

Note: Due to the different environments in different places, please make flexible adjustments based on the actual local conditions. If the above content is subject to change, no further notice will be given. Please refer to the latest version of our written information.

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13. Acceptance requirements

➡➡ F-Gold Series-300x168.75



Screen brightness, viewing angle, dark spots and bright spots

LED display acceptance requirements and methods

The following general acceptance requirements and methods are for reference only, please combine with the agreed acceptance criteria.



Adjust the display screen to a full bright white screen state, and use a light gun to complete the brightness measurement of the display screen within 10 minutes

When measuring brightness, the light gun needs to be placed at the middle point of the best viewing distance, and the light gun should be perpendicular to the screen, while ensuring that the black position of the observation window covers more than 16 pixels, and adjust the focal length so that the LED can be clearly seen in the eyepiece Lamp beads, then measure and read the brightness data.



When measuring the viewing angle, it should be combined with the size of the screen, and based on the best viewing distance of the screen, move to the horizontal 160° position on the left and right and the vertical angle of 80° on the screen for observation. It is required that the screen has no obvious black spots, no obvious dark blocks and other problems.

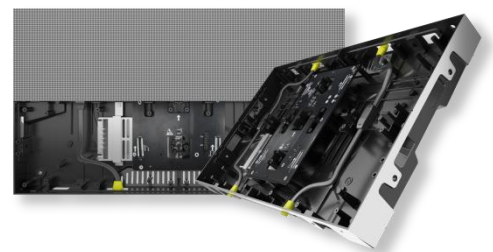


Determine the best viewing distance according to the size of the screen, stand at the middle point of the best viewing distance, and visually check that there are no dark spots or bright spots.
Note: Please combine shipping standards synchronously.

Note: Please take good care of and protect our environment. Do not discard waste products at will. In case of problems with the use of the product, please contact us.

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14. Product application

▶▶▶ F-Gold Series-300x168.75



Seekstar LED display products are widely used in smart cities, command and dispatch, conference medical education, security monitoring and emergency response, radio and television broadcasting, military combat command centers, airspace and rail transit, electric competitions, oil and gas energy and other fields



Combat command center



Radio and TV studio



Security monitoring emergency



Conference medical education



Big business meetings



Smart city construction



Oil and gas energy sector



Airspace rail transit



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