Positive Light-emitting Series LED Transparent Screen

Product Series: Positive Light-emitting Series

Department: Technical Department

Version : A0

Update Date: 2023.3

Catalog

I. Product Description

Transparent screen is an innovative transparent LED display with transparent display, novel structure, high-definition and high brightness, simple application, intelligent control, energy-saving and environmental protection, novel image, etc., to achieve a new, irreplaceable and more extensive commercial applications, to pry the larger media advertising market.
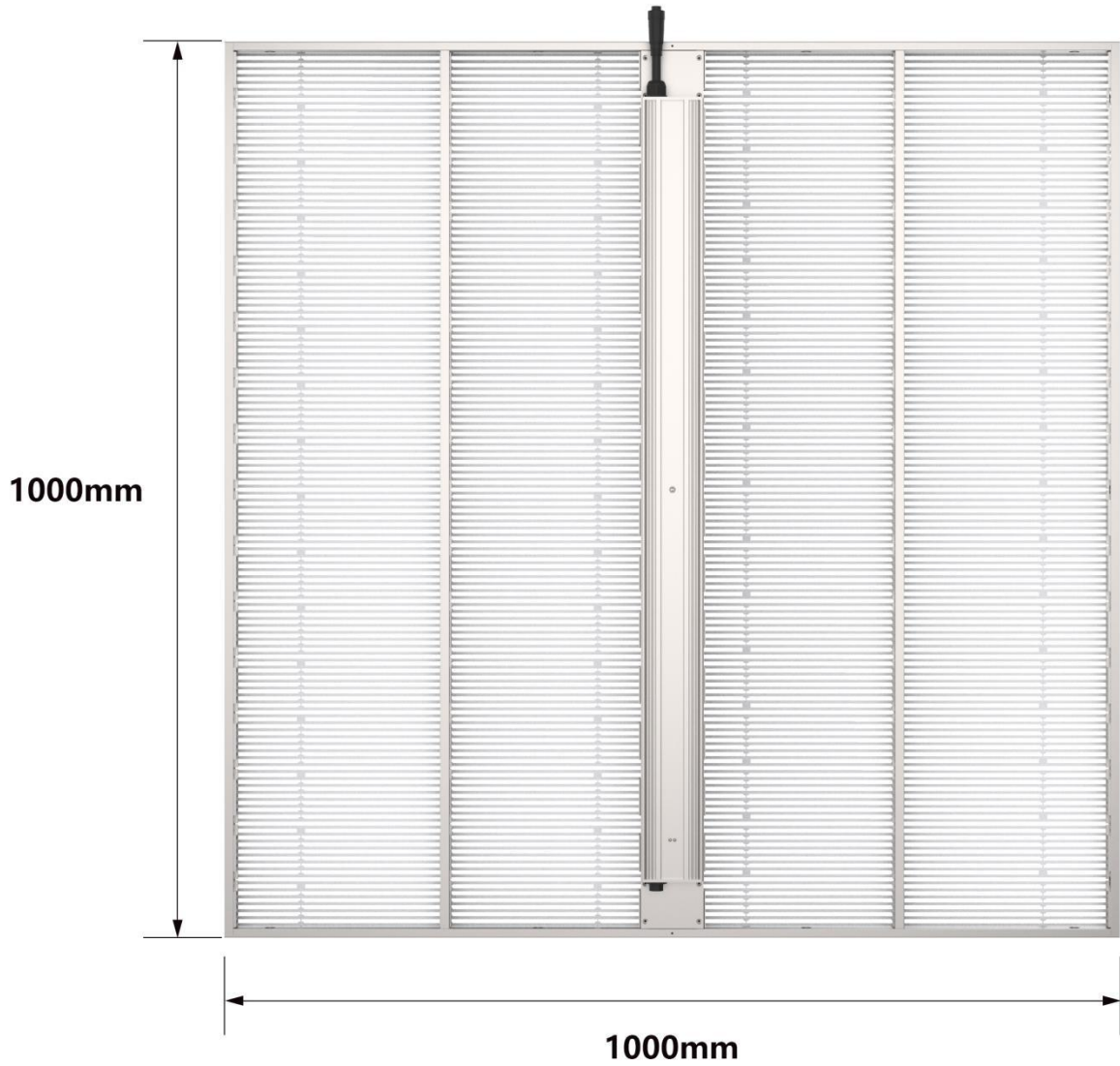
It is widely used in various scenes such as TV parties, large entertainment programs, store windows and high-end commercial exhibitions.
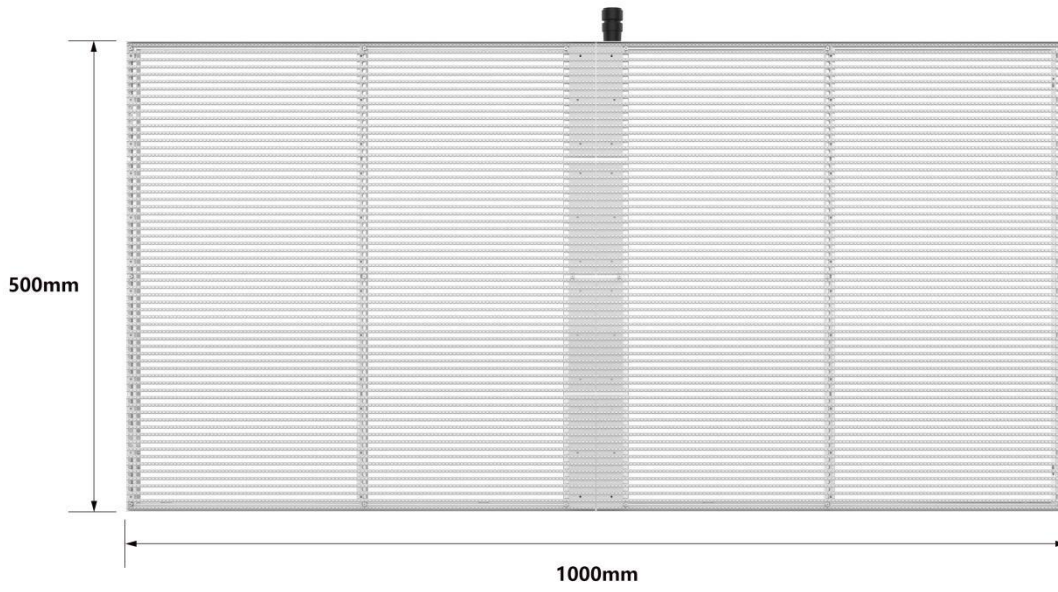
Characteristics:

(1) Does not affect light: 65% permeability.
(2) Modularity: free splicing.
(3) Wide viewing angle: 160 ° viewing angle, look down elevation angle: 130 °
(4) Brilliant colors: high contrast ratio, high refresh rate.
(5) Positive light-emitting strip, easy to disassemble and maintain.

(6) All aluminum structure box, the weight is only 9KG/㎡, with good weather resistance.
(7) Energy saving and environmental protection, no auxiliary cooling equipment, natural air cooling, no noise.
(8) After installation, it does not affect the indoor lighting and the overall architectural style.
(9) Brightness ≥ 4000CD can sunrise play, low power consumption, the use of power consumption only to 240W/㎡.

(10) Bright colors, long life, service life up to 50,000 hours, good cost performance.
(11) Can be suspended, the upper and lower fixed frame can be used with the same color of the glass frame edge, perfect seamless splicing.
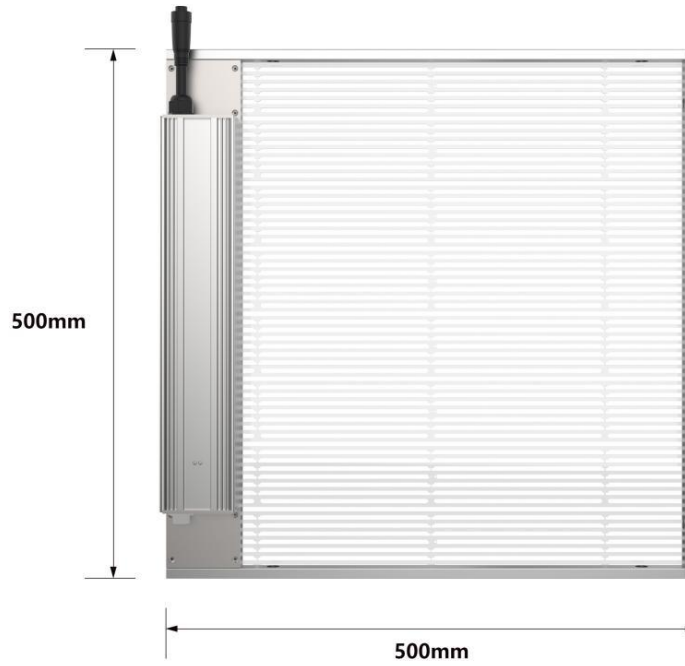
II. Structural Appearance

Single Cabinet 1000x1000mm

1000mm

1000mm

Single Cabinet 1000x500mm

500mm

1000mm

Single Cabinet 500x500mm

500mm

500mm

III. Product Detailed Parameters

Model Number	AZ2.6	AZ3.91	AZ10.4
Parameter Name	P2.6	P3.91	P10.4
Pixel Pitch(W*H)	2.6mm*6.9mm	3.91mm*7.8mm	10.4mm*10.4mm
Optimal Sight Distance	2M-40M	4M-40M	10M-40M
Screen Transparency	60%	65%	80%
Pixel Density (dots/㎡)	55296	32768	9216
Maximum Power Consumption(W/㎡)	800	800	680
Average Power Consumption(W/㎡)	200	240	240
Cabinet Size(W*H*D)	1000mm*1000mm*50mm	1000mm*1000mm*50mm	1000mm*1000mm*50mm
Cabinet Resolution (W*H)	384*144	256*128	96*96
Cabinet Weight	5kg	5kg	5kg
Brightness(CD/㎡)	≥4000	≥4500	≥5000
LED Light Beads	1415 RGB	1921 RGB	3535 RGB
Refresh Frequency	≥3840Hz	≥1920Hz	≥3840Hz
IP Rating	IP30	IP30	IP30
Gray Scale	16bit	16bit	16bit
Scanning Mode	1/12	1/8	1/4
Screen Material	Aluminum Frame + Light Bar	Aluminum Frame + Light Bar	Aluminum Frame + Light Bar
Display Interface	Terminal DIV/HDMI	Terminal DIV/HDMI	Terminal DIV/HDMI
Working Environment	-10℃～40℃	-10℃～40℃	-10℃～40℃
Installation Method	According to the site can be lifted, fixed installation method		

IV. Technical Standards

4.1 Appearance Requirements

1-1 The appearance of the profile is bright and colorful, intact without scratch marks; the lamp beads are evenly distributed, and the assembly has no shaking parts or falling off phenomenon.

1-2 The error of structure size is not more than ±1mm.

4.2 Test environment and Basic Parameters

2-1 Working environment temperature: -10℃~4 0℃

2-2 Relative humidity of environment：L 90%RH

2-3 Working current: DC5V

4.3 Image Technical Requirements

3-1 Vibrant colors, realistic picture, clear and natural, high color reproduction.

3-2 Standard resolution of video resolution: 1920x1080.

3-3 Each lamp bead brightness uniform, no dead light, bump.

3-4 Imaging clear and smooth, clear layers, stable picture quality, no flicker phenomenon.

4.4 Aging Requirements

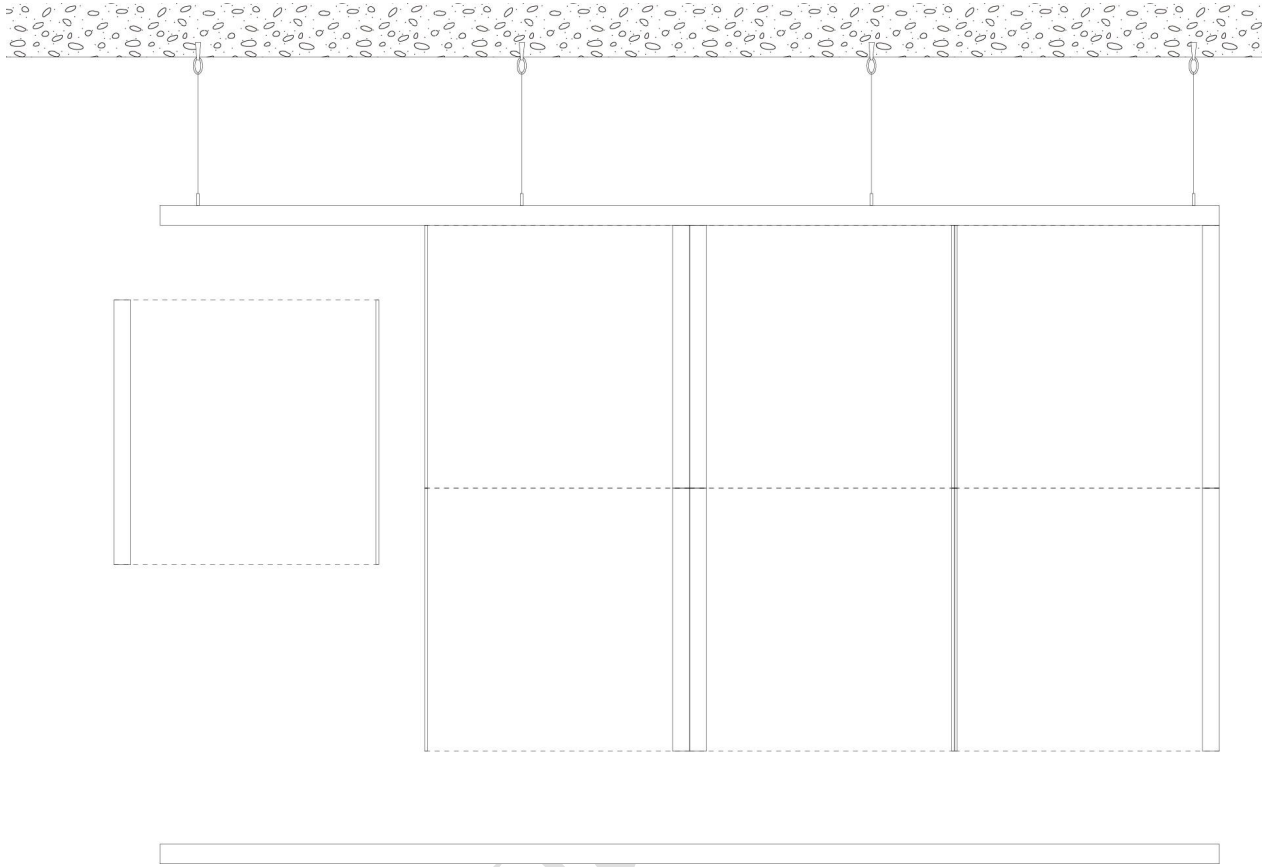4-1 Red, green, blue pure color detection, no color deviation, no flicker.

4-2 Normal play video not less than 48 hours, no bad phenomenon.

4.5 Testing Equipment

Pantone standard color card, gray scale comprehensive test chart, accuracy of ± 0.5% digital multimeter, accuracy of ± 0.02mm vernier calipers, testing tooling, high and low temperature humidity and heat test chamber, light brightness detector.

V. Installation

5.1 Hanging Splicing Screen Installation Schematic

5.2 The Support Bar Spell Screen Installation Schematic