



Side Light-emitting Series LED Transparent Screen

Product Series: Side Light-emitting Series

Department: Technical Department

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Zhongxian Beixin

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I. Product Description

1.1. Product Introduction

LED side light box screen adopts modular design, with transparent display, fast installation, energy saving and environmental protection, etc.; it can be installed by hanging and vertical installation, etc. There are several standard sizes of 1000x1000mm, 1000x500mm, 500x500mm. Widely used in glass curtain walls, large shopping malls, floor-to-ceiling windows, TV parties, large entertainment programs and other scenes.

Characteristics.

- (1) Does not affect light: 75% permeability.
- (2) Modularity: borderless DIY free splicing.
- (3) Wide viewing angle: 160 ° viewing angle, look down elevation angle: 130 °
- (4) Brilliant colors: high contrast ratio, high refresh rate.
- (5) Can be customized according to the curtain wall structure, boxed design, easy to install and maintenance.
- (6) All aluminum structure box, box structure for aluminum alloy after anodic oxidation process, the weight of the treatment is only 9KG/m², 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.

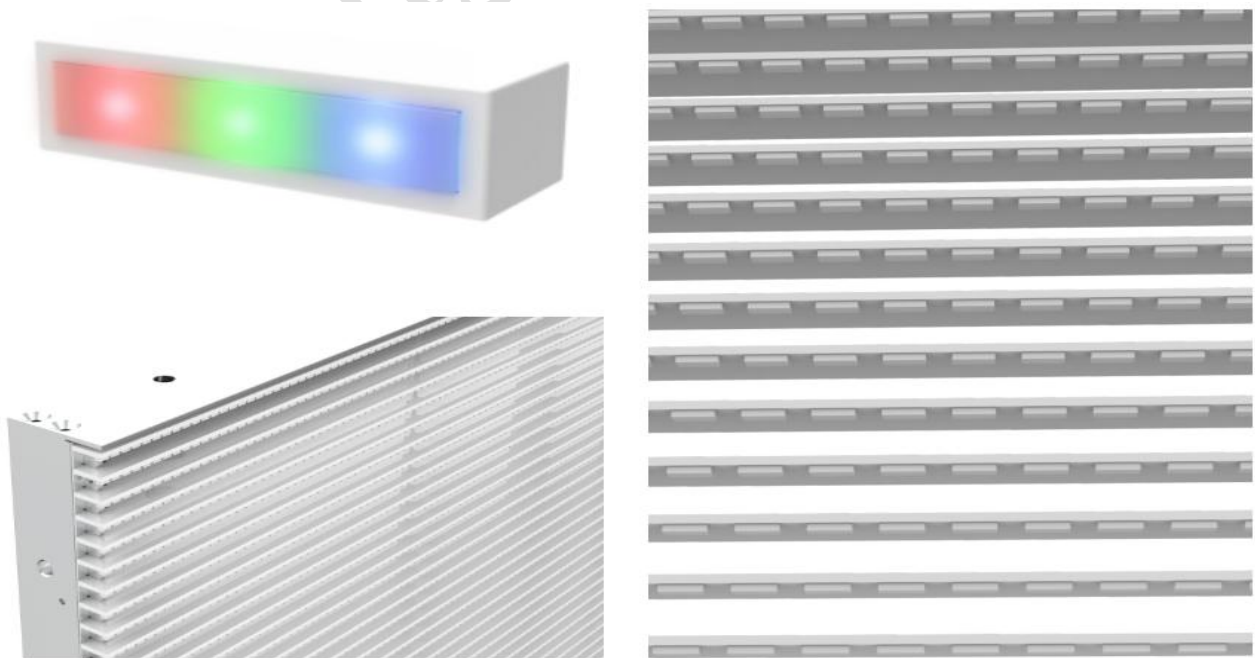
(9) Brightness $\geq 5500\text{CD}$, low power consumption, the use of power consumption only to $240\text{W}/\text{m}^2$.

(10) Bright colors, long life, service life up to 100,000 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.

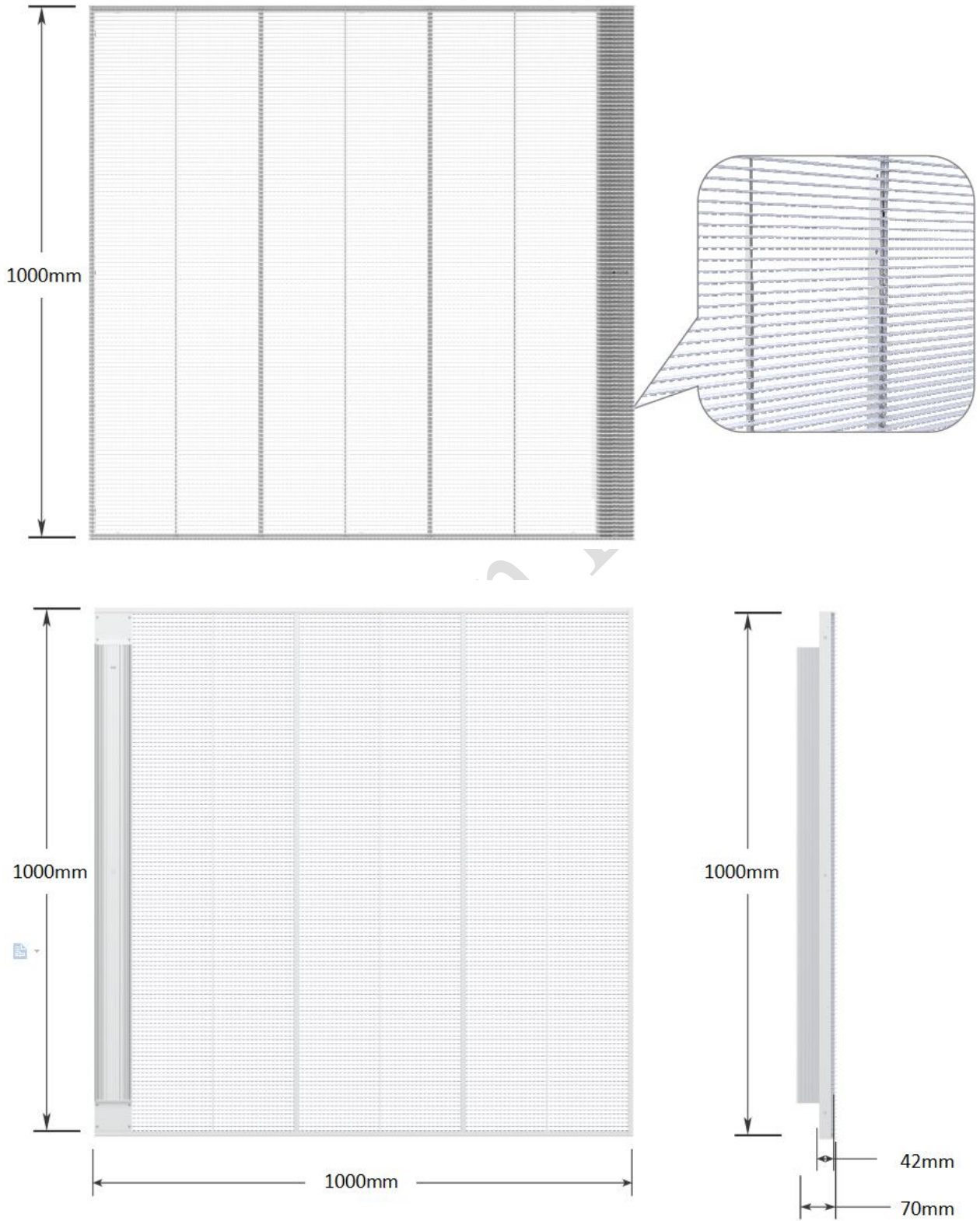
1.2. Technical Characteristics

LED side luminous transparent screen adopts LED transparent screen special lamp beads, when the screen is working, the lamp beads are luminous on one side of the light board, which is side luminous. The case structure is aluminum alloy after anodic oxidation process.

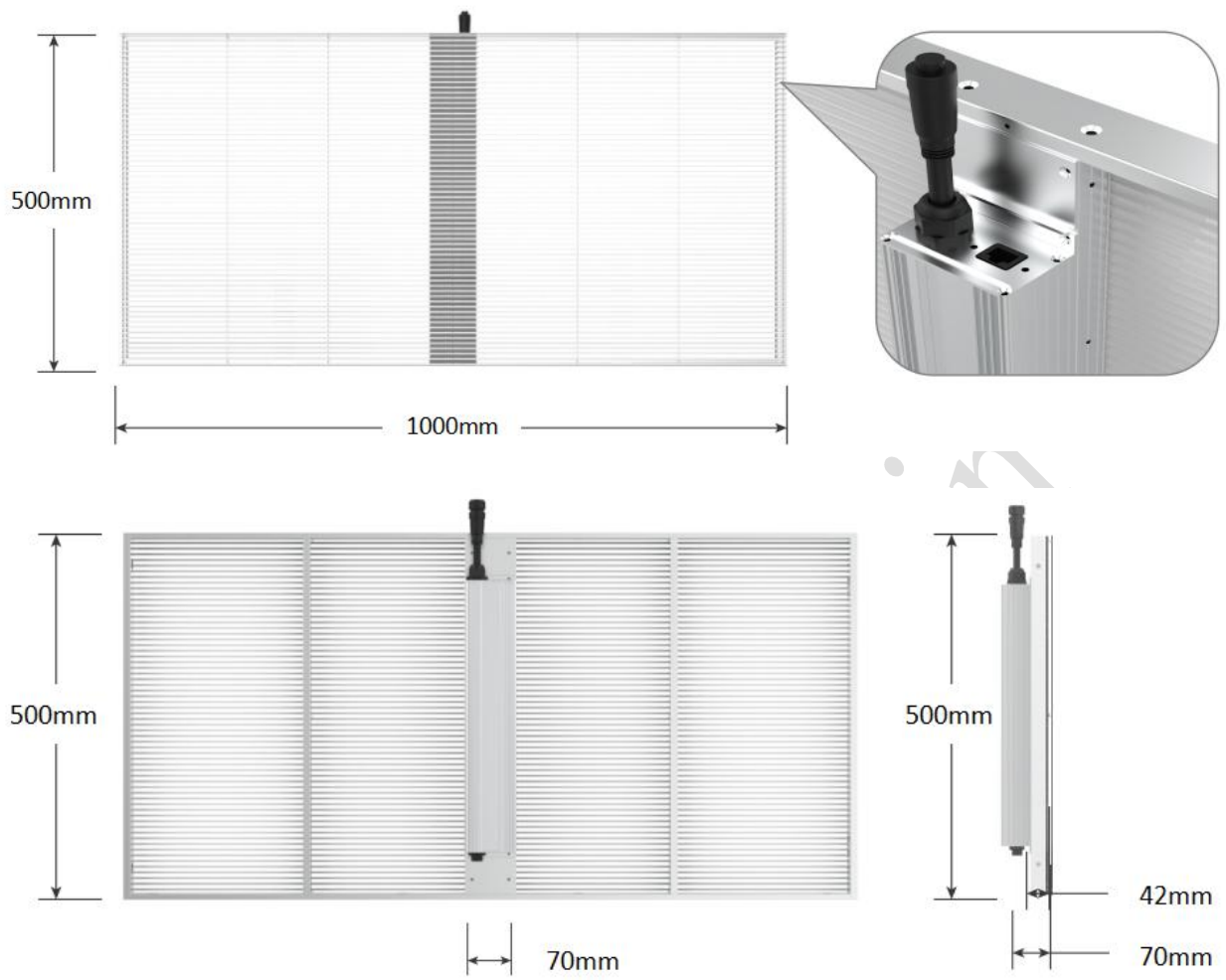


II. Structural Appearance

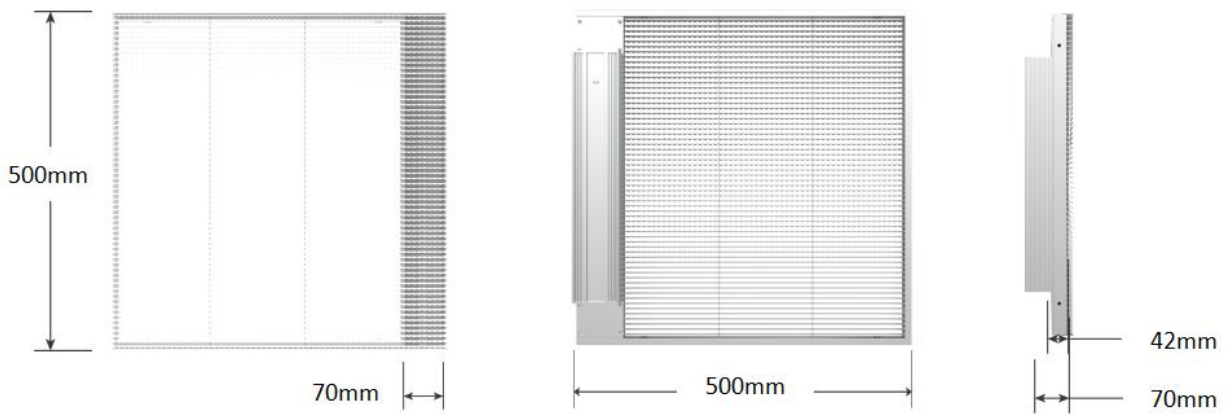
Side Light-emitting Single Cabinet 1000x1000mm



Side Light-emitting Single Cabinet 1000x500mm



Side Light-emitting Single Cabinet 500x500mm



III. Product Detailed Parameters

Model Number	AC3.91	AC7.81	AC10.42	AC15.6
Pixel Pitch(W*H)	3.91mm*7.81mm	7.81mm*7.81mm	10.42mm*10.42mm	15.625mm*15.625mm
Optimal Sight Distance	4M-12M	8M-24M	10M-30M	15M-45M
Screen Transparency	80%	75%	80%	60%
Pixel Density (dots/m ²)	32768	16384	9216	4096
Maximum Power Consumption (W/m ²)	800	800	700	600
Average Power Consumption (W/m ²)	240	240	200	180
Cabinet Size (W*H*D)	1000mm*500mm*70mm	1000mm*500mm*70mm	1000mm*500mm*70mm	1000mm*500mm*70mm
Cabinet Resolution (W*H)	256*64	128*64	96*48	64*32
Cabinet Weight	5kg	6kg	6kg	9kg
Brightness(CD/m ²)	≥5500	≥5500	≥5500	≥5500
LED Light Beads	3510 RGB	3510 RGB	3510 RGB	3510 RGB
Refresh Frequency	≥3840Hz	≥1920Hz	≥1920Hz	≥1920Hz
IP Rating	IP30	IP30	IP30	IP67
Gray Scale	16bit	16bit	16bit	16bit
Scanning Mode	1/8	1/4	1/2	1/1
Screen Material	Aluminum Frame + Light Bar	Aluminum Frame + Light Bar	Aluminum Frame + Light Bar	Aluminum Frame + Light Bar
Display Interface	Terminal DIV/HDMI	Terminal DIV/HDMI	Terminal DIV/HDMI	Terminal DIV/HDMI
Working Environment	-10°C~40°C	-10°C~40°C	-10°C~40°C	-35°C~80°C
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 ± 1 mm.

4.2. Test Environment and Basic Parameters

2-1. Working environment temperature: $-20^{\circ}\text{C}\sim 50^{\circ}\text{C}$

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.

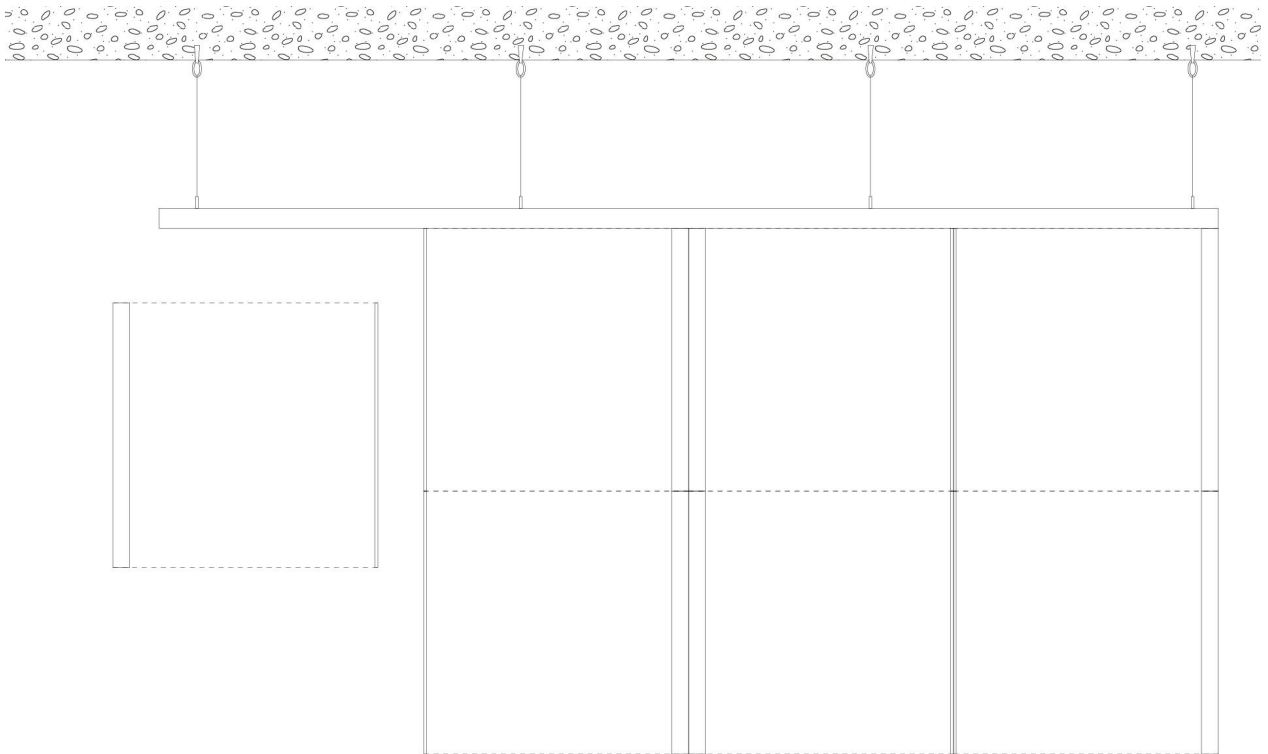
4-2. Normal play video not less than 48 hours, no bad phenomenon.

4.5. Testing Equipment

Pantone standard color card, gray scale comprehensive test chart, accuracy of $\pm 0.5\%$ digital multimeter, accuracy of ± 0.02 mm 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 Splicing Screen Installation Schematic

