

Product Specification Sheet

Product Series: LED Mesh Screen

Product Model: LCW****F/Y***

Document Revision History

No	Revision No.	Change Status	Description of Changes (+/-)	Approved By	Date
1	V1.0	C	Creation	Joyce Dong	2025.11.11
2	V1.0	M	Modification	Gloria	2026.06.08
3	V1.0	M	Modification	Lynn	2026.06.09

*Note on Change Status: C——Creation, A——Addition, M——Modification, D——Deletion

Disclaimer: This document outlines the technical parameters for the standard model within this series.
The actual product specifications may vary based on the configuration specified in the sales contract.
The images provided are for illustrative purposes only, the actual product may differ.

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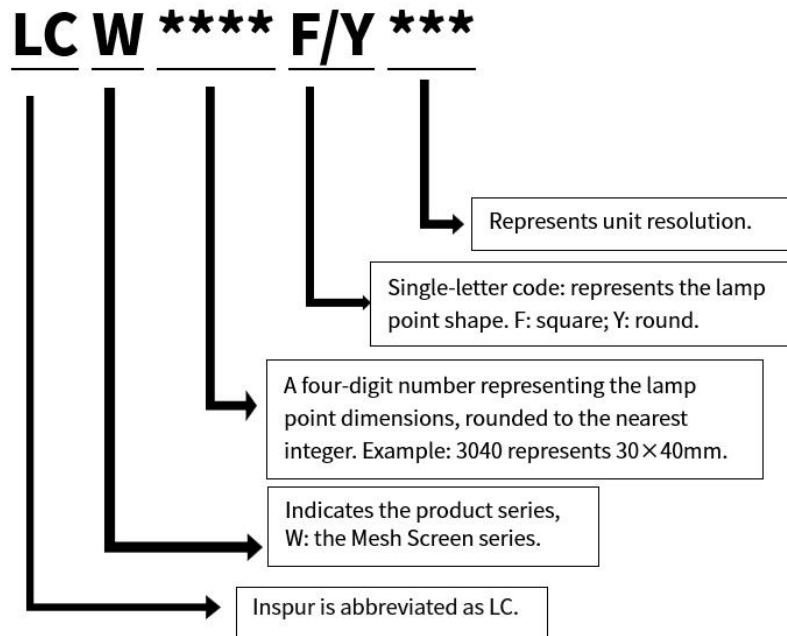
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1. Scope of Application

This technical manual applies exclusively to the following models of the LAC Vision LED Mesh Screen series: LCW2222F450, LCW2024F450, LCW3040F450, LCW2222Y450, LCW3236Y450, LCW222F500, LCW3040F500, LCW2222Y500, and LCW3236Y500. The specifications provided below correspond to standard product configurations. Customization is available for specific requirements.

2. Naming Rules



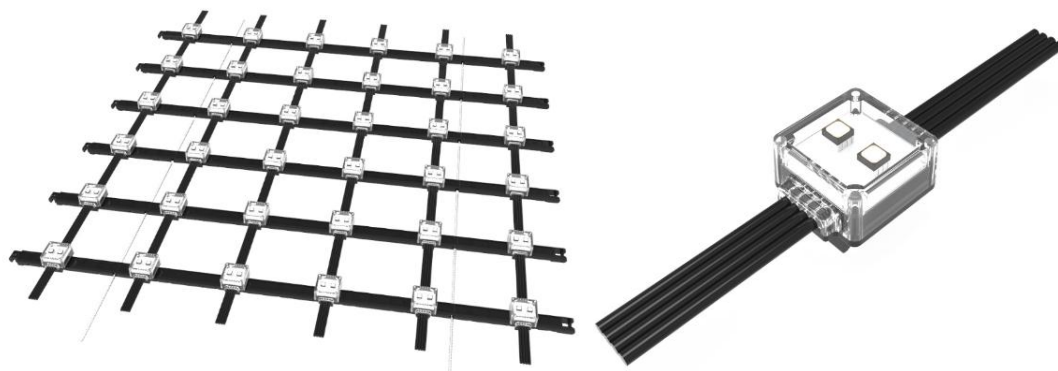
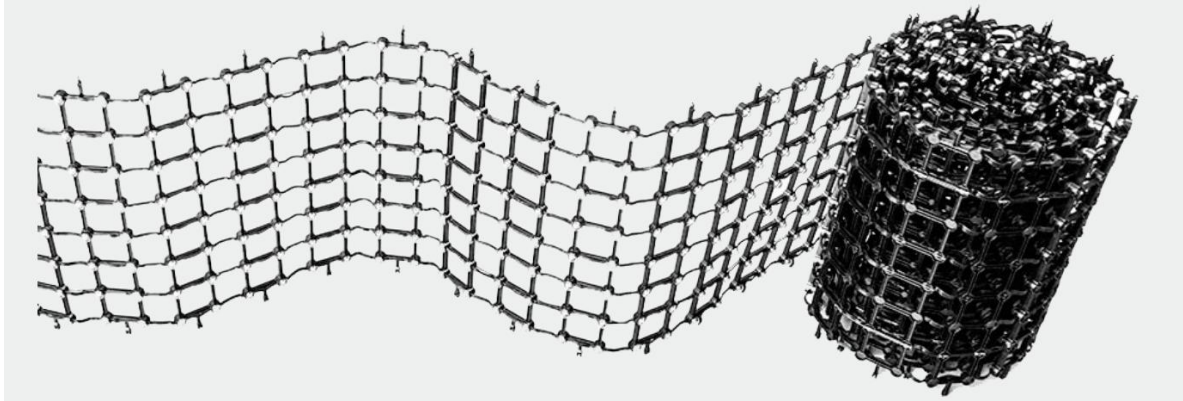
Example: LCW2222F450 is an LAC Vision Mesh Screen series product featuring 22×22mm square lamp points with a unit resolution of 450 mm/pixel pitch.

3. Product Introduction

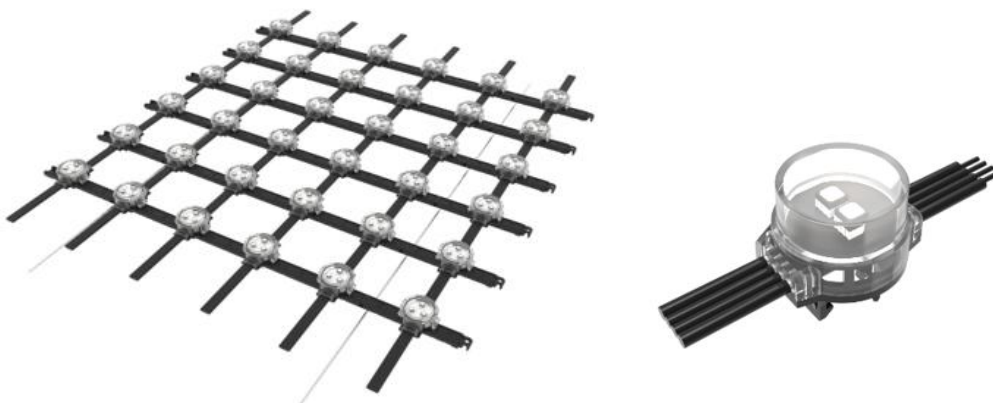
LED Mesh Screen is a specialized display formed by mounting LED lamps on a mesh structure. Its most distinctive feature is its high void ratio, which allows wind and light to pass through, resulting in extremely low wind resistance. This makes it highly safe and widely used in applications such as

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building facades and stage backdrops, where it can create massively dynamic visuals with strong visual impact. Due to the physical gaps between the LED lamps, it is best viewed from a distance to achieve an overall stunning visual effect.



Square Lamp Points



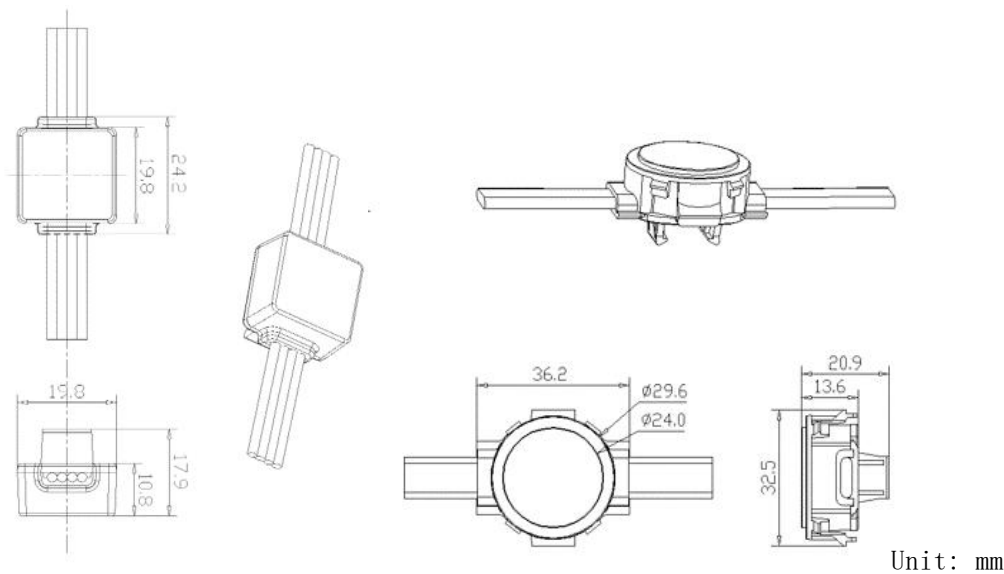
Round Lamp Points

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3.1 Product Features

- Parallel Single-Bus Pixel Architecture: Utilizes a differential DMX512 driver IC, providing superior signal drive strength compared to conventional four-wire 512 systems.
- High IP68 Protection Rating: Offers complete dust and water resistance.
- Advanced Pixel Performance: Delivers high grayscale, high refresh rates, and jitter-free low grayscale, supporting flicker-free camera shooting.
- High Grayscale Refresh Rate: Up to 16,000 Hz.
- 16-Step Adjustable Current Gain: Enables brightness adjustment without grayscale loss.

3.2 Product Dimensions



(Note: Square lamp points are exemplified by the 22×22mm size, while round lamp points are represented by the 36.2×32.5mm dimensions.

Actual sizes may vary across different product models.)

4. Product Parameters

LED Mesh Screen					
Model	LCW2222F450	LCW2024F440	LCW3040F450	LCW2222Y450	LCM3236Y450

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Lamp Brand	SMD3535/5050	SMD3535/2727	SMD3535/5050	SMD3535/5050	SMD3535/5050
Horizontal Dimension (mm)	450	440	500	450	500
Vertical Dimension (mm)	Customizable				
Power (W/PCS)	RGB:0.68; RGBW:0.8	RGB:0.68; RGBW:0.8	RGB:1.5; RGBW:1.8	RGB:0.68; RGBW:0.8	RGB:0.72; RGBW:1
Average Power Consumption	Half of Peak Power				
Operating Voltage	DC12V	DC12V	DC24V	DC12V	DC12V
Pixel Pitch	Supports integer multiples of P30/P50/P75 spacing	Supports integer multiples of P55 spacing	Supports 2x multiples of P50/P60/P75 spacing	Supports integer multiples of P30/P50/P75 spacing	Supports 2x multiples of P50/P60/P75 spacing
Pixel Configuration	1RGB /2RGB /2RGBW				1RGB /2RGB / 2RGBW /3RGB / 4RGB /3RGBW / 3RGB + 1W
Lamp Point Size (mm)	22×22	22×24	30×40	Diameter22	32.5×36.2
Unit Resolution (mm/Pixel Pitch)	450	440	450	450	450
Pixel Density (dot/m²)	1110 (P30-30)	330 (P55-55)	100 (P100-100)	1110 (P30-30)	100 (P100-100)
Brightness (cd/pcs)	>5cd/pcs	>5cd/pcs	>15cd/pcs	>5cd/pcs	>15cd/pcs
Beam Angle	120°				
Grayscale Level	256 / 4096 / 65536 levels selectable				
Refresh Rate (Hz)	>5000				
Control Method	DMX512, Breakpoint Continuation (RGBW not supported)				
Transparency Rate	1 - (Total pixels per unit area × 0.00064)				
Protection Rating	IP67				
Operating Temperature (°C)	-20~50				
Service Life (h)	≥50000				
Weight	Pixel Point 12g/PCS Bracket 23g/PCS	Pixel Point 12g/PCS Bracket 23g/PCS	Pixel Point 27g/PCS Bracket 23g/PCS	Pixel Point 12g/PCS Bracket 23g/PCS	Pixel Point 15g/PCS Bracket 23g/PCS
Relevant Certifications	Currently Unavailable				

(Note: Supports customer customization with other lamp brands.)

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LED Mesh Screen				
Model	LCW2222F500	LCW3040F500	LCW2222Y500	LCW3236Y500
Lamp Brand	SMD3535/5050			
Horizontal Dimension (mm)	500			
Vertical Dimension (mm)	Customizable			
Power (W/PCS)	RGB:0.68; RGBW:0.8	RGB:1.5; RGBW:1.8	RGB:0.68; RGBW:0.8	RGB:0.72; RGBW:1
Average Power Consumption	Half of Peak Power			
Operating Voltage	DC12V	DC24V	DC12V	DC12V
Pixel Pitch	Supports integer multiples of P31.25/ P41.67/ P50/ P55/ P71.43 spacing	Supports 2x multiples of P41.67 /P50 /P55 /P62.5 /P71.43 spacing	Supports integer multiples of P31.25/ P41.67/ P50/ P55/ P71.43 spacing	Supports 2x multiples of P50/ P60 /P75 spacing
Pixel Configuration	1RGB/2RGB/2RGBW			1RGB / 2RGB / 2RGBW / 3RGB / 4RGB /3RGBW / 3RGB+1W
Lamp Point Size (mm)	22×22	30×40	直径 22	32.5×36.2
Unit Resolution (mm/Pixel Pitch)	500			
Pixel Density (dot/m²)	1024 (P31-31)	100 (P100-100)	1024 (P30-30)	100 (P100-100)
Brightness (cd/pcs)	>5	>15	>5	>15
Beam Angle	120°			
Grayscale Level	256/4096/65536 levels selectable			
Refresh Rate (Hz)	>5000Hz			
Control Method	DMX512, Breakpoint Continuation (RGBW not supported)			
Transparency Rate	1 - (Total pixels per unit area × 0.00064)			
Protection Rating	IP67			
Operating Temperature (°C)	-20°C~50			
Service Life (h)	≥50000			
Weight	Pixel Point 16g/PCS Bracket 23g/PCS	Pixel Point 27g/PCS Bracket 23g/PCS	Pixel Point 16g/PCS Bracket 23g/PCS	Pixel Point 15g/PCS Bracket 26g/PCS
Relevant Certifications	Currently Unavailable			

(Note: Supports customer customization with other lamp brands.)

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5. Application Scenarios



Note:

The above parameters represent typical values for the product. Variations may occur across different production batches, and the actual parameters of the product shall be subject to the factory inspection report.

During the product manufacturing process, continuous optimization and iteration are carried out, and the product specifications may be adjusted at any time. Please consult with regional agents before making a purchase.

For customized products, a new specification sheet needs to be issued.

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