

# Inspur LED Mesh Screen

Models: LCW2222F450 LCW2024F440 LCW3040F450 LCW2222Y450 LCM3236Y450.etc



The LED mesh screen is a modular LED display unit composed of components such as LED point light sources, PC card strips, aluminum clips, and steel wires, supporting free splicing and expansion. It features lightweight, thin, and transparent characteristics and can be easily assembled to achieve ultra-large display areas ranging from dozens to tens of thousands of square meters.

Suitable for applications such as real estate curtain walls, commercial centers, hotel exteriors, and high-rise buildings, it meets the demands for large-scale dynamic displays. With high-quality nighttime lighting effects, it helps shape a unique architectural nightscape image, becoming a distinctive visual landmark that highlights regional characteristics and enhances commercial value.

## > Product Highlights



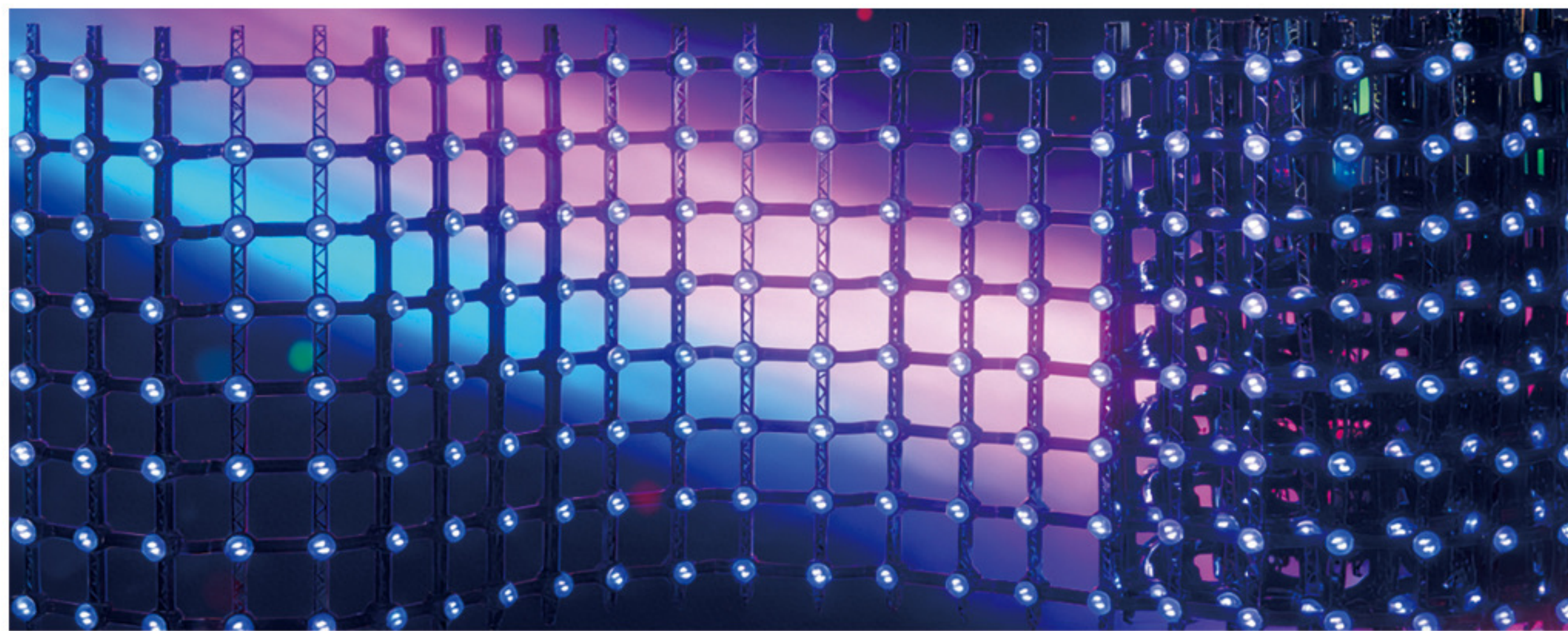
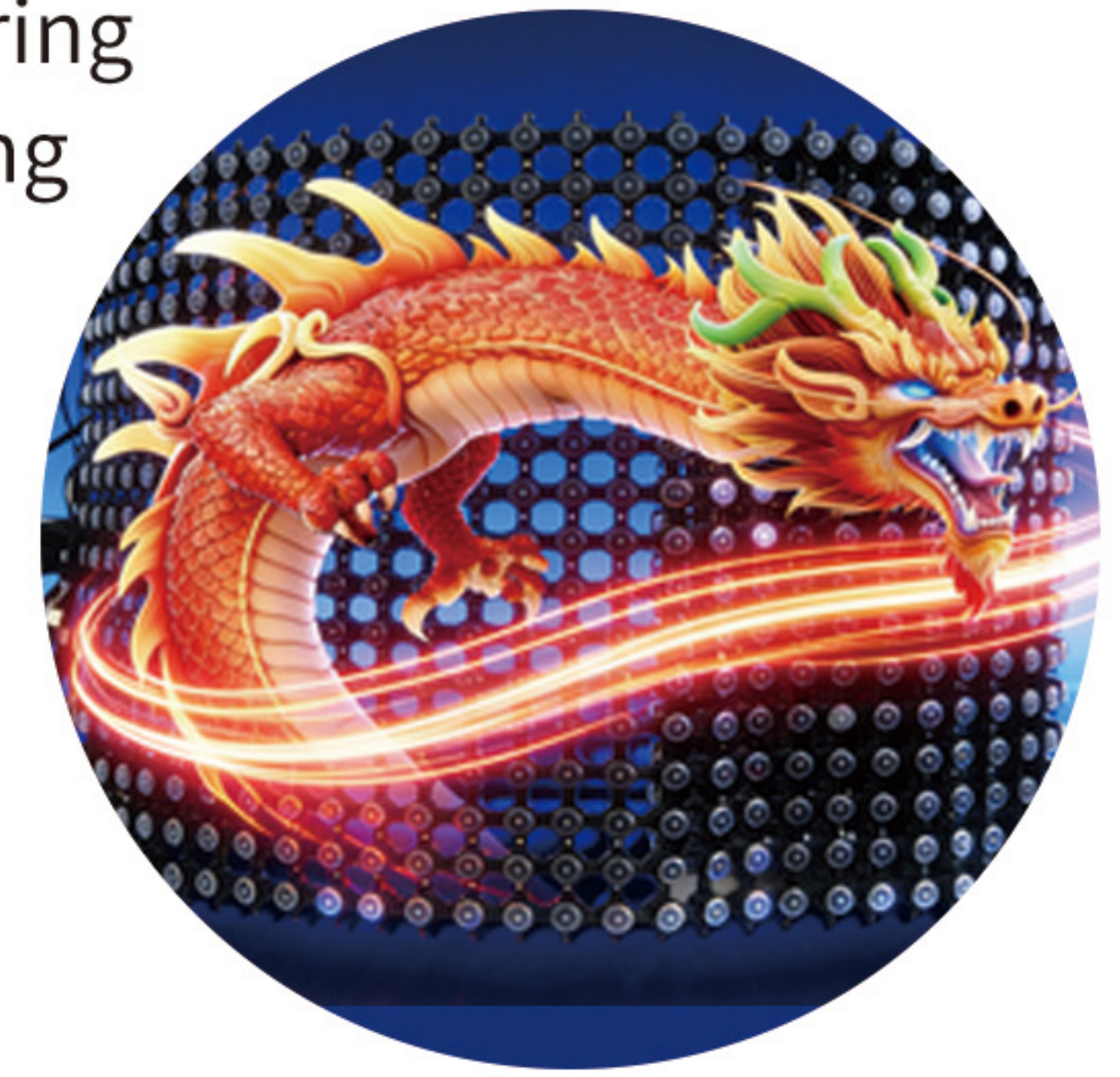
The pixel points support high grayscale and high refresh rates, delivering smooth low-gray performance without flicker and ensuring no banding during filming.



The dimming frequency reaches up to 16kHz, resulting in smoother and more detailed motion graphics.



It supports 16 step current gain adjustment, allowing brightness adjustment without loss of grayscale detail.



## > High light transmittance

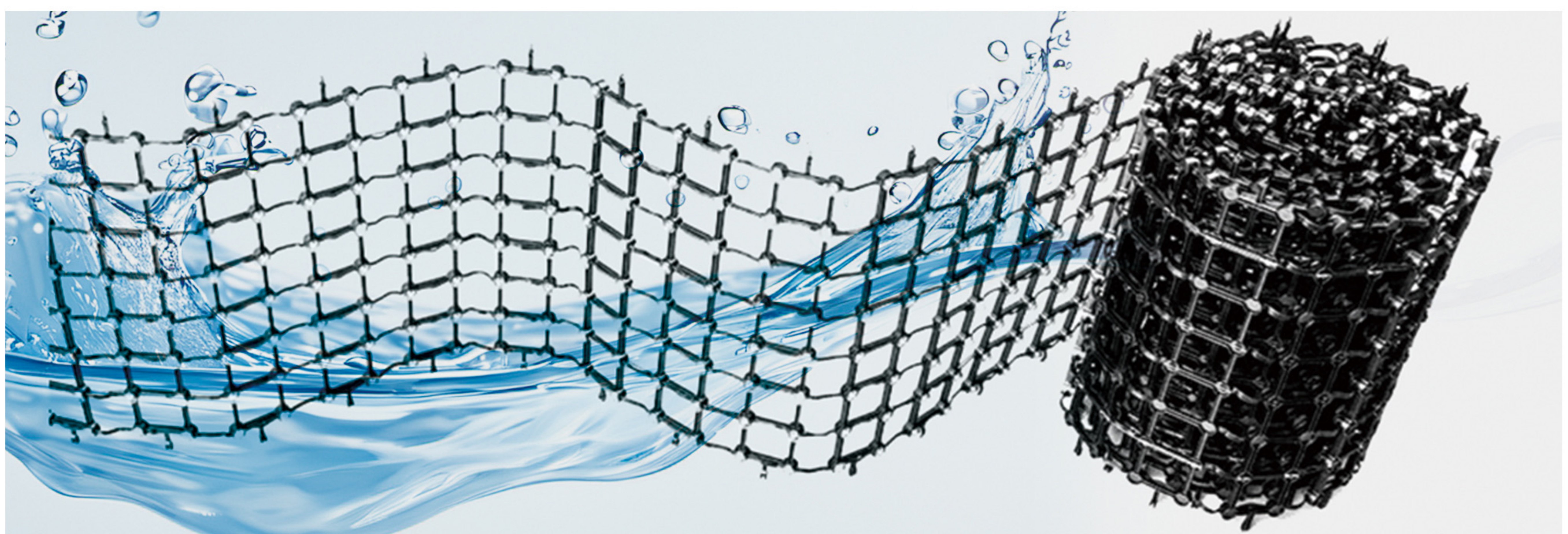
High Light Transmittance: Offering 50%-85% light transmittance, it preserves both natural lighting and clear views, enabling the display to blend naturally with the building.

## > Robust driving performance

The pixel points adopt a parallel single bus architecture, with an internal differential DMX512 driver IC, offering signal driving strength superior to conventional four wire 512 solutions.



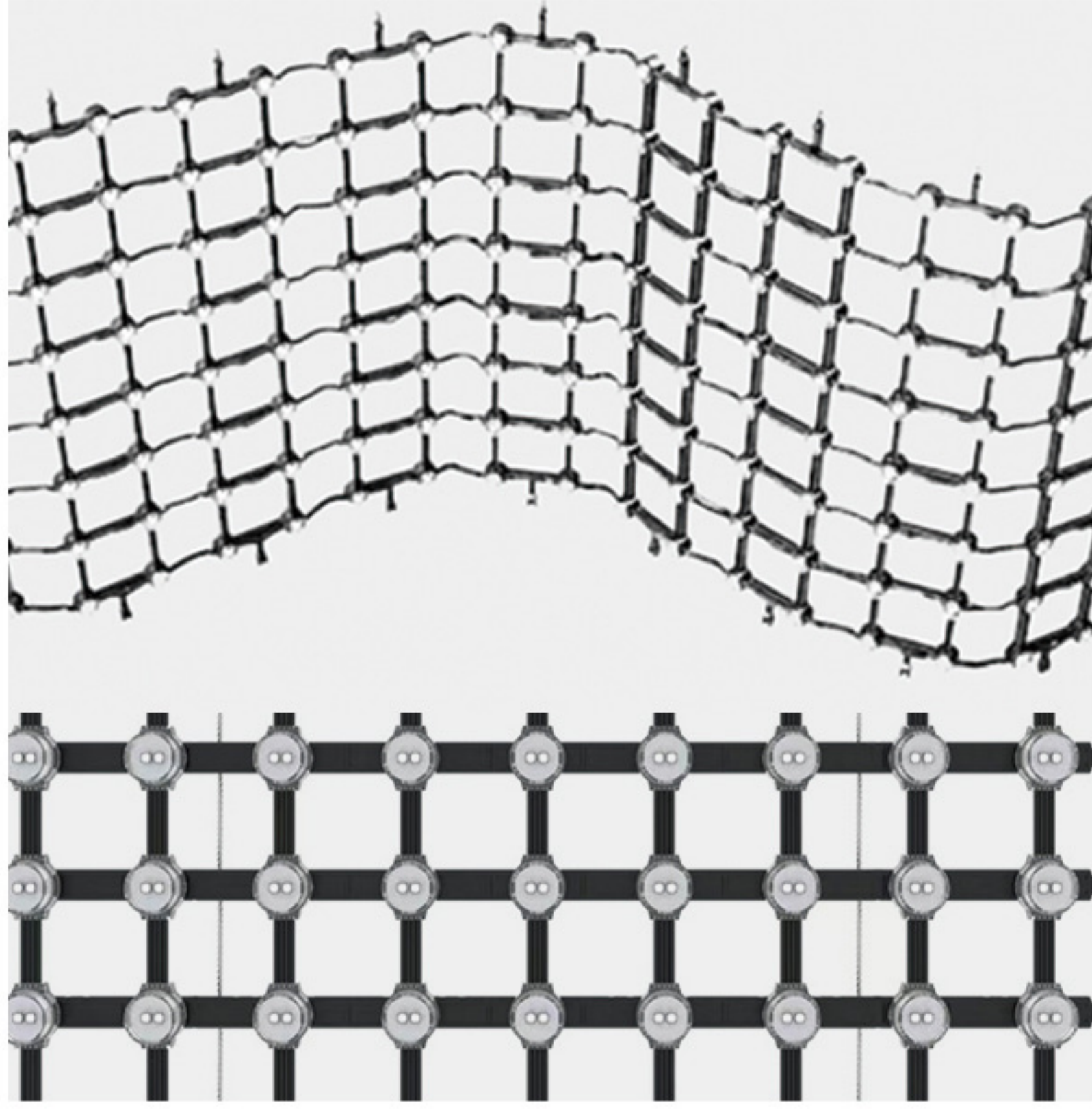
## > Lightweight with low wind load



The structure is light and has low wind resistance, reducing the load requirements on the building and making it suitable for large scale façade installations.

## > High protection rating

The whole unit is rated IP67, protecting against dust and water, and is suitable for harsh outdoor environments.



## > Modular design

Supports quick splicing and system expansion without the need for complex steel structures.

## > Flexible adaptation

Size and shape can be customized according to project requirements, supporting bending, folding, rolling, hanging, and other installation methods to meet various creative shapes (e.g., curved surfaces, cylinders, waves) and irregular display needs.

## > Product Parameters

Inspur LED Mesh Screen					
Model	LCW2222F450	LCW2024F440	LCW3040F450	LCW2222Y450	LCM3236Y450
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/m <sup>2</sup> )	1110 (P30-30)	330 (P55-55)	100 (P100-100)	1110 (P30-30)	100 (P100-100)
Brightness (cd/pcs)	>5	>5	>15	>5	>15
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

Note: Supports customer customization with other lamp brands.

## > Product Parameters

Inspur 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	Diameter22	32.5×36.2
Unit Resolution (mm/Pixel Pitch)	500			
Pixel Density (dot/m <sup>2</sup> )	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)	>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 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

Note: Supports customer customization with other lamp brands.

## INSPUR INTELLIGENT TECHNOLOGY CO., LTD.

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