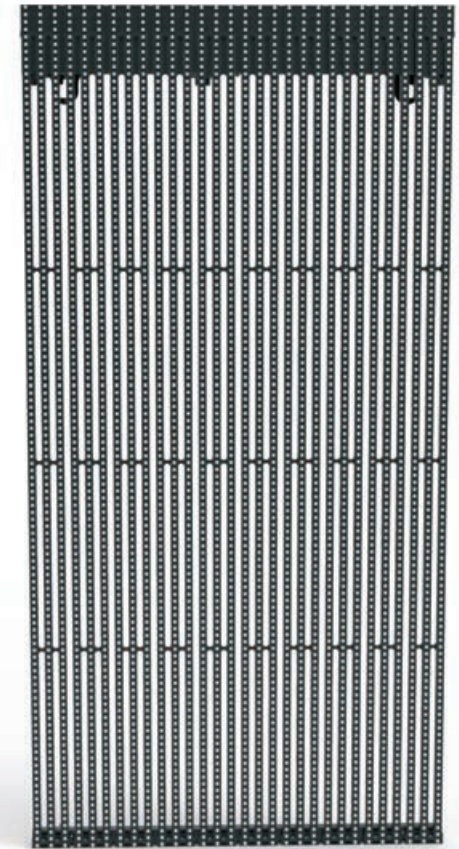
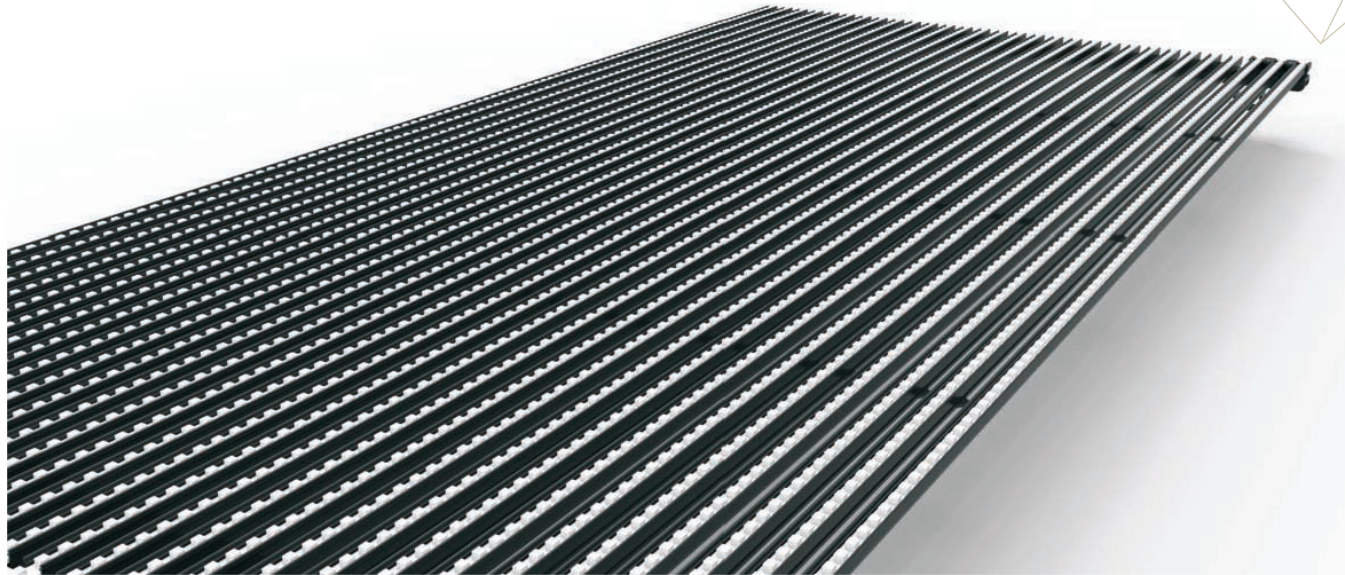




**SAMA** Turnkey solutions for media displays..

# LED MESH SERIES

**SAMA:** 8/16mm 16/16mm 16/33mm 33/33mm  
16/25mm 33/50mm



Strip and hollow design ensure ventilation and transparency



Ultra light, 30%-6% lighter than traditional display



Ultra slim, minimum only 12mm, including structure 110mm



Longer working life, Up to 100,000 hours, strong reliability



Great heat dissipation with aluminum and separated design of power supply and light strip



quick installation, <10s to install or remove a unit



Adopted high efficient chips, linear arrangement, high brightness & contrast



Save installation space, easy maintenance, low service cost



Both general & customized system to meet various broadcasting requirements



Adjustable brightness to fit different environment needs



Multi-screen display, multichannel switch freely



Stable & flawless design, consummate techniques

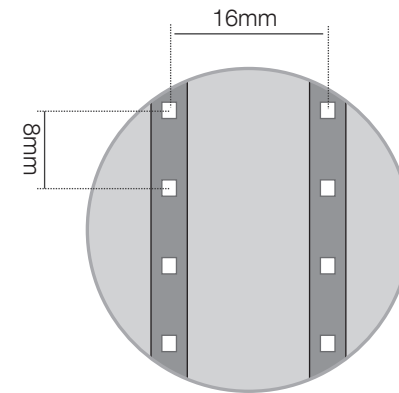




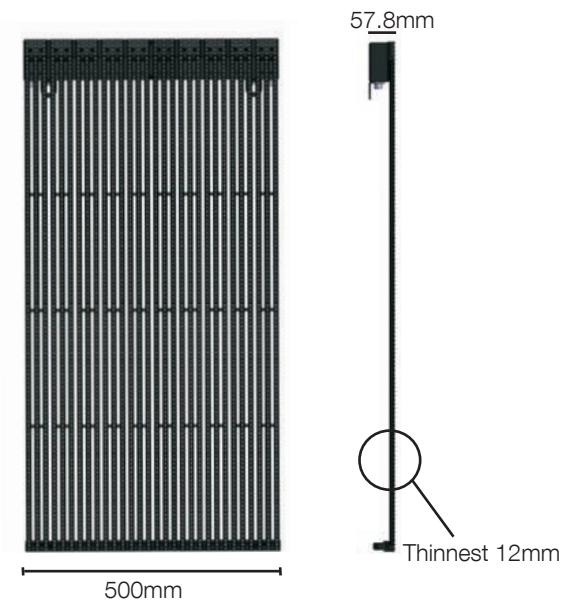


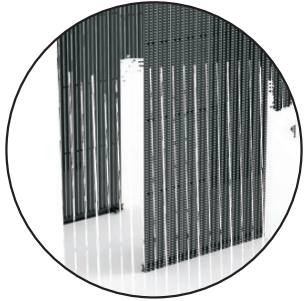
## ● Brief introduction

Developed by Rafeed team, SAMA series LED mesh adopts aluminum material and unique heat dissipation design which all guarantee the transparency. the hollow design and strip shape make it ever lighter than traditional display.  
available in pitch 8/16mm, 16/16mm, 16/33mm, 33/33mm, 16/25mm, 33/50mm, (vertical/ horizontal),  
sama series can be applied in exterior wall of building heterogeneous cityscape, CBD, lounge display and stage.



Pixel pitch: 8/16mm (vertical/horizontal)

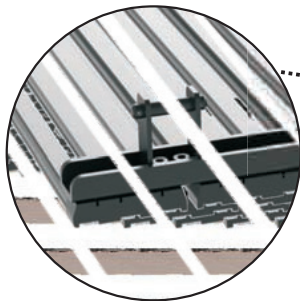




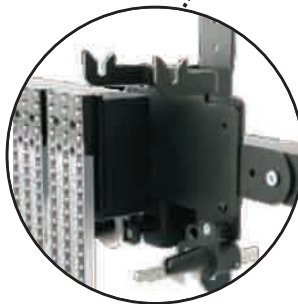
01. Adopted aluminum material & 3 strips in 1 unit fixed design to maintain the flatness



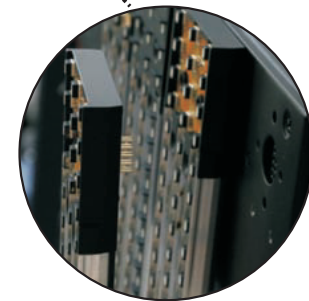
05. Quick & easy installation



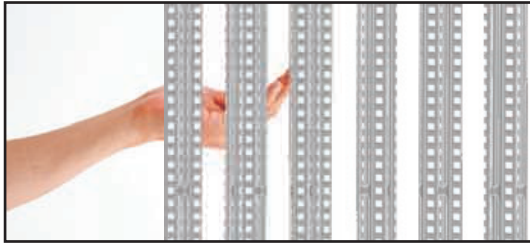
02. Double shift rotation stud



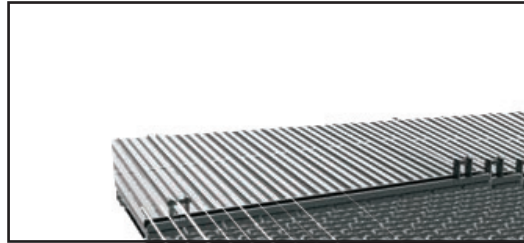
03. Matching installation structural components



04. Adopting female header / pin header, waterproof rubber ring, screws fixation



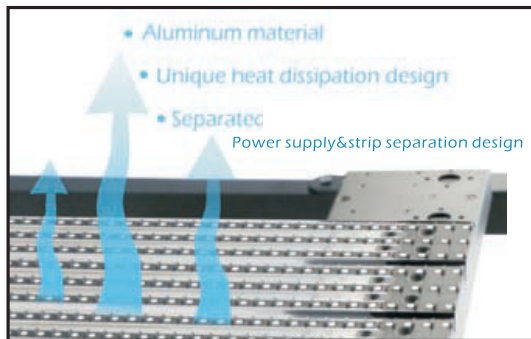
**01. Transparency:** Strip shape and hollow design ensure the ventilation and illumination



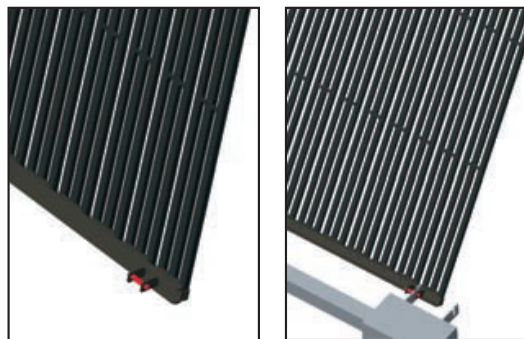
**02. Slim & thin:** 30%-60% lighter than traditional one, reduce the structure load and installation cost



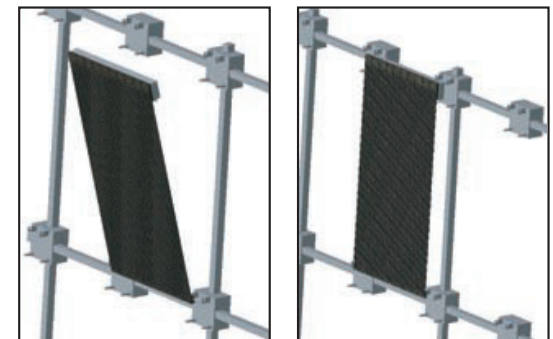
**03. Windload capacity:** 35%-70% transparent rate varies with the pixel pitches, effectively reduces winddrag



**04. Great heat dissipation:** aluminum material & unique heat dissipation design, separated power supply from light bars



**05. Installation:** it needs only 10 seconds to install or remove a cabinet with maintenance tools; fool-proofing design, easy installation

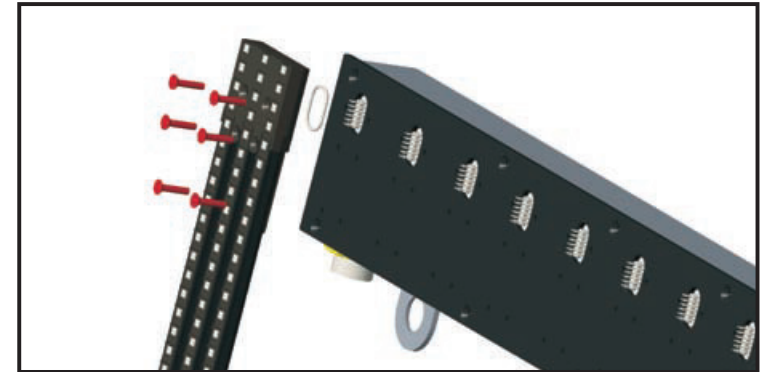




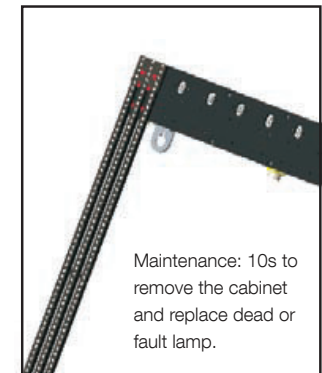
- Ultra slim structure; optional front or rear maintenance
- Adjustable brightness for various environment need
- High-performance components with exquisite production technique
- Slot brackets simplify the display structure, improve the stability
- Ultra-quiet design; free from noise effect

### LED mesh vs traditional display:

1. Light weight & low load. Rafeed LED mesh transparency up to 70% effectively reduce wind-drag.
2. Quick installation; footless steel structure, both front& rear installation; air condition- free installation means low power consumption.

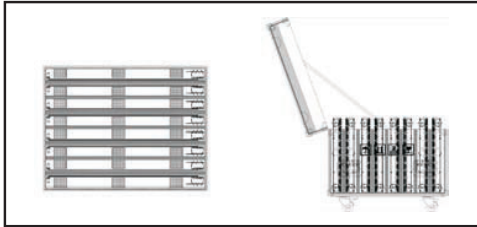


3. Easy maintenance: both front & rear maintenance; several screws to dismantle light bars without replacing the cabinet; or you can remove the cabinet quickly then maintain the light bar.
4. Highly integrated, fool-proof design, built-in power supply & receiving card per unit can work individually; power and signal share same wire.
5. High IP rating up to IP 65, efficient components and exquisite technology, stable performance



### 08. Package

Individual package of components, back rack & cabinet

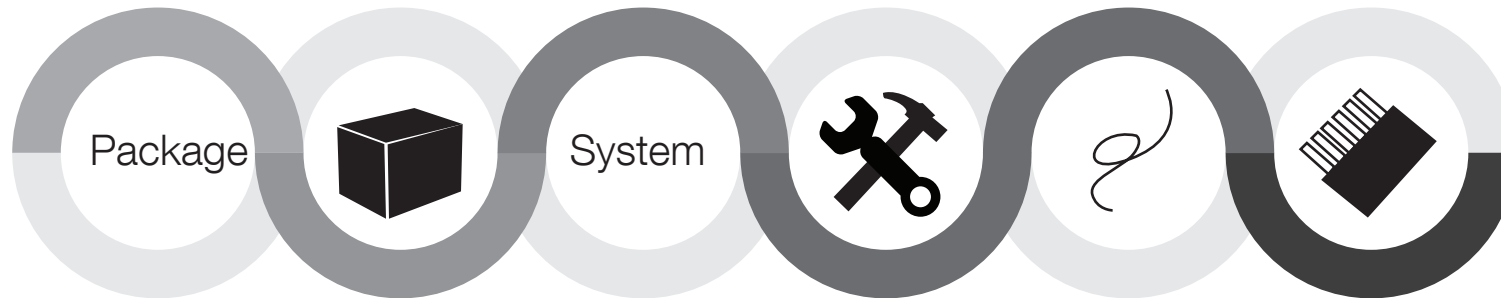


- Packed in flight case: 2 cabinets in a group, 4 groups in a case. Individual package of components and back frame, avoid pressing & save room.
- Packed in wooden case: the same.

### 09. Systematic solutions

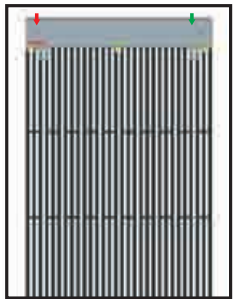
combination of general & customized system

- General system: meet basic needs of regular display
- Customized system: applied in urban landscape modeling, background design of stage. the whole system based on the combination of creative display & landscape lighting.



### 10. Power supply & signal

Individual package of components, back rack, cabinet



- A Front view of cabinet, left side is signal input, right side is power supply input. (AC 240/110±10%, 50-60Hz)

### 11. Energy-saving

Leading green technology

- Allowing LED unique advantages longevity and energy-saving into full play.

### 12. Additional design

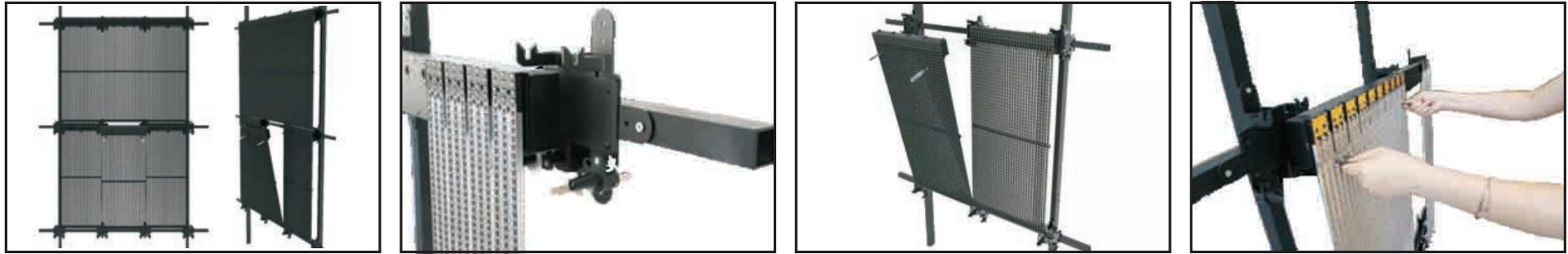
Slot bracket on the back, keep the structure neat

- Plastic slot brackets simplify the display structure, maintain the transparency 3x2.5m<sup>2</sup> Wires connect 8-10 cabinets horizontally.



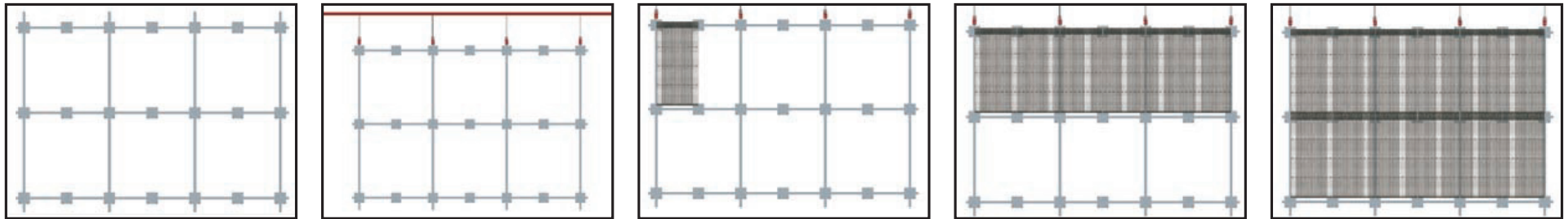
### 13. Easy & quick installation

A bolt, Two kinds parts, the three process together complete the basic installation structure



### 14. Simplest steel structure, diversified forms

According installations fit for multiple applications



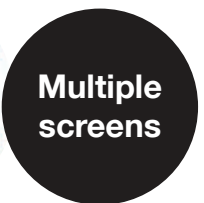
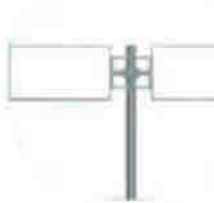
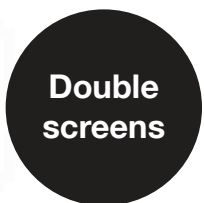
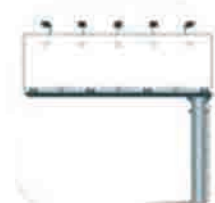
01. Assemble back frame

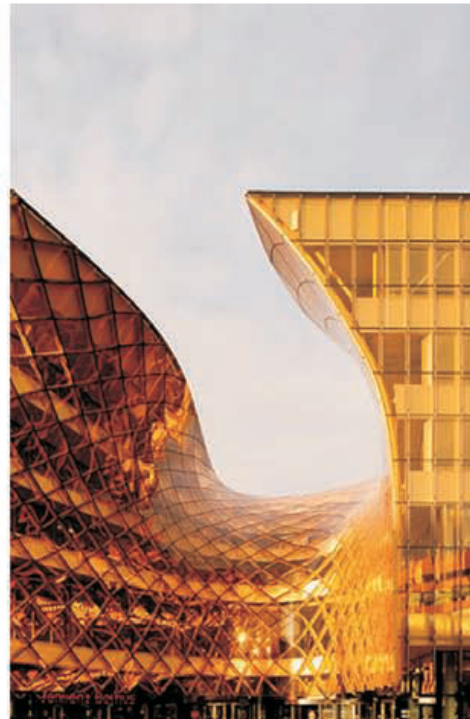
02. Connect back frame to lifting beam or wall mount

03. Install cabinet from top

04. Install cabinet & connect wires from left to right

05. Finished





**15. Multiple color options, customization welcomed**

Color and application environment cooperation, meet different aesthetic needs.



# SAMA

MODEL		LED-MESH						
	MODEL	8/16mm	16/16mm	16/16mm	16/33mm	33/33mm	16/25mm	33/50mm
LAMP	LED Type	SMD(3535)			DIP346		DIP346	
	Item code	PR-SC-SAM8.16-01	PR-SC-SAM16.16-02	PR-SC-SAM16.16-03	PR-SC-SAM16.33-04	PR-SC-SAM33.33-05	PR-SC-SAM16.25-06	PR-SC-SAM33.50-07
MODULE	Pixel configuration	SMD3 in		1R1G1B	1R1G1B	2R2G2B	1R1G1B	2R2G2B
	Pixel pitch(HxW)mm	8.33/16.67	16.67/16.67	16.67/16.67	16.67/33.33	33.33/33.33	16/25	33/50
	Module layout (HxWxL)mm	1000x9.5x11	1000x9.5x11	1000x10x18	1000x10x18	1000x10x18	1000x14.3x18	Single light strip
	Resolution	120x30(HxW)	60x30(HxW)	60x30(HxW)	60x15(HxW)	30x15(HxW)	60x20(HxW)	30x10(HxW) other sizer
CABINET	Cabinet Size (HxWxL)mm	1000x500x60			1000x500x60		1000x500x60	1000x500x60 other sizer
	Net.Weight/ Cabinet	7.8Kg	7.8Kg	8.3Kg	5.5Kg	5.8Kg	6.8Kg	7.0Kg
	Ingress Protection	Front IP65/Rear IP65			Front IP65/Rear IP65		Front IP65/Rear IP65	
	Power	AC 240 or 110±10%,50-60Hz			AC 240 or 110±10%,50-60Hz		AC 240 or 110±10%,50-60Hz	
	Serviceability	Front & Rear Service			Front & Rear Service		Front & Rear Service	
	Max.Power Consumption	≥500W/m <sup>2</sup>	≥470W/m <sup>2</sup>	≥450W/m <sup>2</sup>	≥450W/m <sup>2</sup>	≥450W/m <sup>2</sup>	≥450W/m <sup>2</sup>	≥430W/m <sup>2</sup>
DISPLAY	Avg. Power Consumption	167W/m <sup>2</sup>	157W/m <sup>2</sup>	155W/m <sup>2</sup>	155W/m <sup>2</sup>	155W/m <sup>2</sup>	155W/m <sup>2</sup>	150W/m <sup>2</sup>
	Brightness	6500cd/m <sup>2</sup>	6500cd/m <sup>2</sup>	6500cd/m <sup>2</sup>	6000cd/m <sup>2</sup>		6500-9000cd/m <sup>2</sup>	6500cd/m <sup>2</sup>
	Pixel Density ( Pixel/m <sup>2</sup> )	7.200	3.600	3.600	1.800	900	2.400	600
	Viewing Angle (H/V)	120°/120°			120°/160°		120°/160°	
	Contrast ratio	3.000:1			3.000:1		3.000:1	
	Transparency	43%	40%	70%	70%	70%	60%	80%
	Operation temperature/humidity	-30°C to+ 50°C/10% to 95%			-30°C to+ 50°C/10% to 95%		-30°C to+ 50°C/10% to 95%	
	Lifetime(50% Brightness)	80.000hours			80.000hours		80.000hours	
	Gray scale	14 bit			14 bit		14 bit	
	Refresh Rate	≥1920Hz			≥1920Hz		≥1920Hz	
Frame Rate	30/50/60fps			30/50/60fps		30/50/60fps		



 AtcLighting

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