

DESAY



AeroCarbon Series

Carbon Fiber Outdoor Rental LED Display

- Ultra-lightweight, high-strength carbon fiber cabinet frame delivers superior anti-deformation performance and effectively reduces loads on mounting structures
- Ultra-slim construction with an overall cabinet depth of just 55mm to realize compact, space-saving installation
- When paired with the ultra-thin carbon fiber frame, the air permeability rate reaches up to 57%, greatly lowering wind load on the screen
- Outstanding weather and corrosion resistance: Non-metallic carbon fiber resists salt spray, UV radiation and chemical corrosion, eliminating rust risks in coastal and high-humidity operating environments
- Fast installation & maintenance: Lightweight cabinets equipped with quick-release latches support single-person mounting and servicing, cutting labour expenses and reducing high-altitude working hours

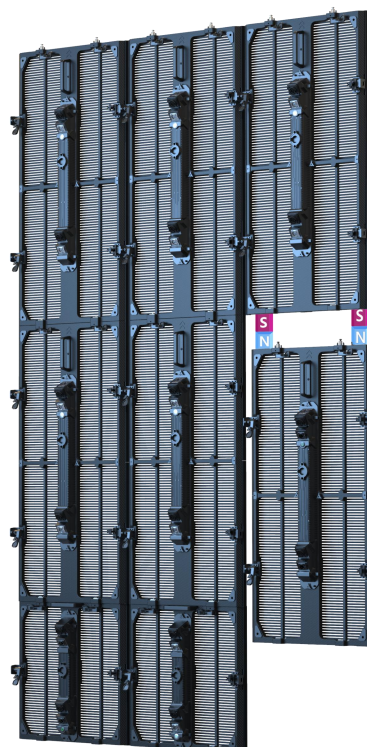
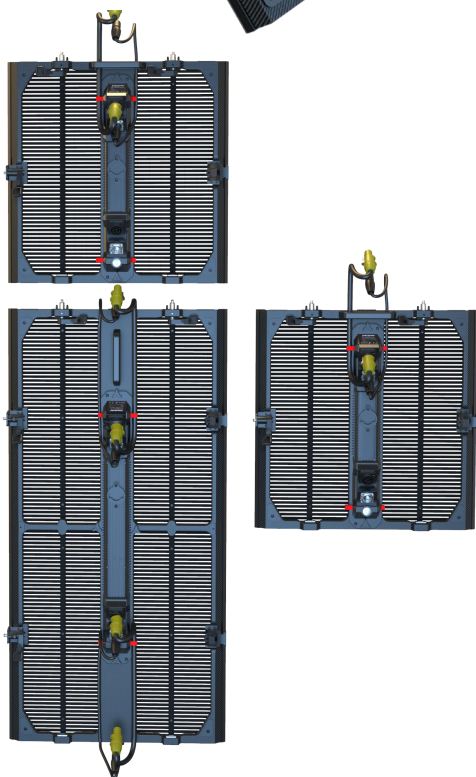
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Cabinet Modular Design

- Front & rear access maintenance available for power supply units and modules
- Opaque carbon fiber panels are optional for modules, supporting transparent or non-transparent configurations
- Module dimensions: 250×500mm
- Magnetic quick mounting: magnets installed on the cabinet top and bottom for fast assembly



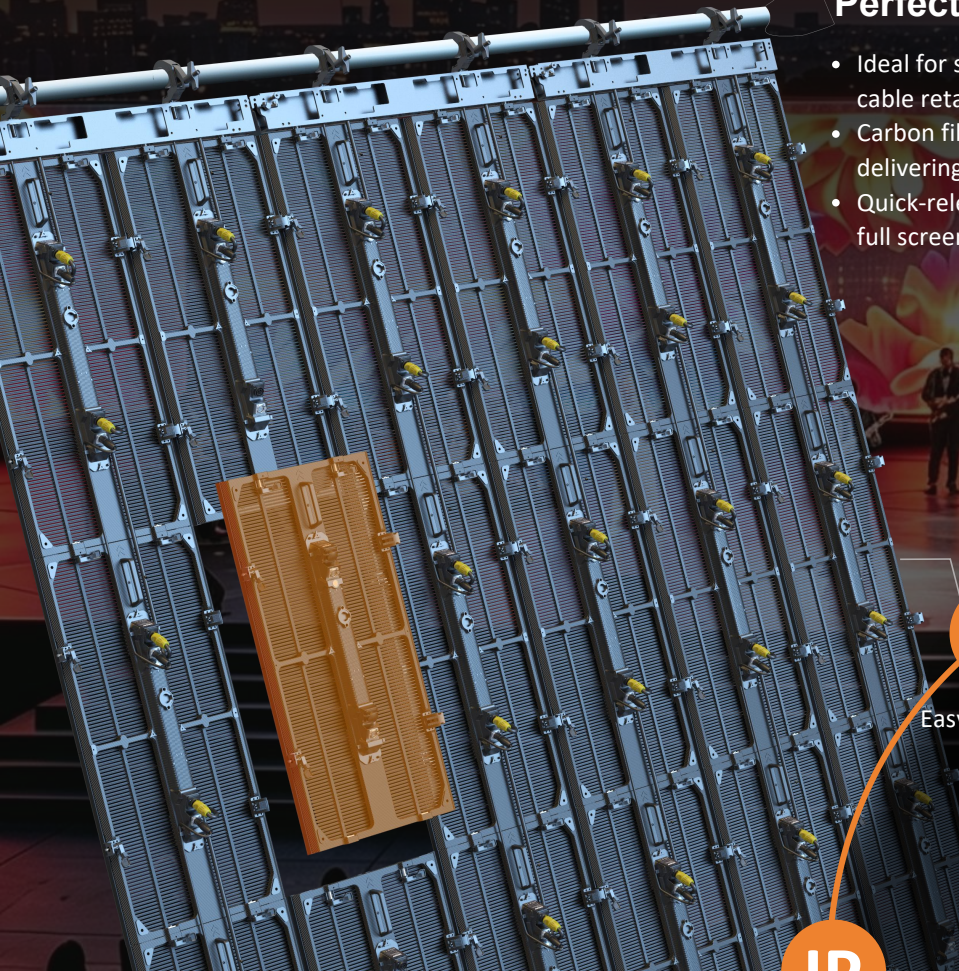
Magnetic quick mounting with quick-release latches plus magnetic alignment, enabling fast single-person assembly.



Cabinets in 500×500mm and 500×1000mm sizes support vertical & horizontal mixed splicing

Perfect Solution for Stage Rental

- Ideal for stage rental projects; external wiring comes with cable retainers for neat cable routing
- Carbon fiber cabinets support lightweight mounting while delivering a tidy, sleek screen look
- Quick-release telescopic pins enable fast cabinet removal from full screen arrays



Easy installation



Quick disassembly

IP

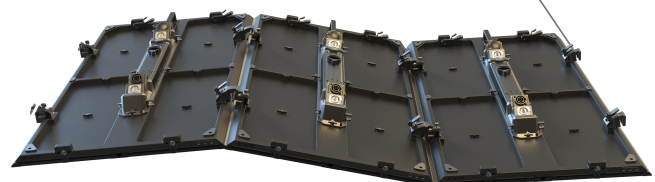
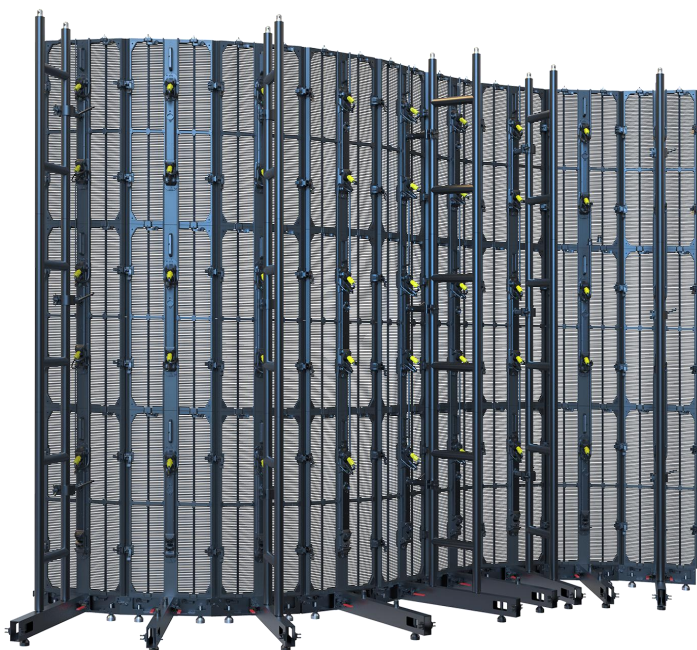
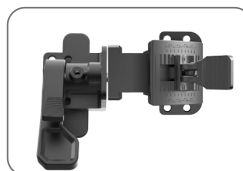
IP65 protection rating



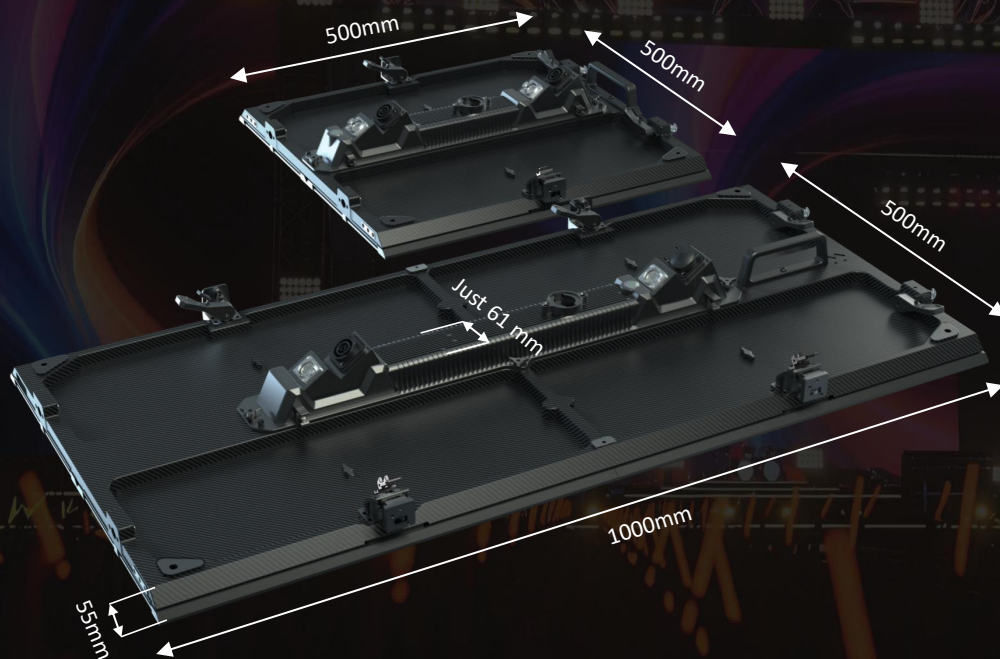
Ultra-thin form factor
just 55mm depth



Fitted with multi-angle
locking fittings



Curved mounting available at angles: -10° , -7.5° , -5° , -2.5° , 0° , 2.5° , 5° , 7.5° , 10°



Specifications

Parameter	Unit	AC3.9	AC5.9	AC8.9
Pixel pitch	mm	3.91	5.95	8.928
Brightness	nits	3000/4500	3000/4500	3500/5000
Pixel configuration	R/G/B	SMD1415		SMD1921
Viewing angle-Horizontal (50% brightness)	Deg.	140 (+70/-70)		
Viewing angle-Vertical (50% brightness)	Deg.	140 (+70/-70)		
Recommended minimum viewing distance	m	4	6	9
Panel width	mm	500		
Panel height	mm	500/1000		
Panel depth	mm	55		
Panel area	m ²	0.25/0.5		
Panel material		Magnesium + Carbon fiber		
Panel weight	Kg	4.8/7.8	4.8/7.8	3.6/5.7
Ingress protection (front/back)	IP	65/54		
Pixel matrix per panel		128×128/128×256	84×84/84×168	56×56/56×112
Brightness control		255		
Gray scale	bit	16		
Frame rate	Hz	50/60		
Display refresh rate	Hz	7680		
Input voltage	VAC	100 ~ 240		
Input power frequency	Hz	50 ~ 60		
Power Consumption (Max.)	W/m ²	480±10%/500±10%	480±10%/500±10%	350±10%/500±10%
Power Consumption (Avg.)	W/m ²	168±10%/175±10%	168±10%/175±10%	122.5±10%/175±10%
Operating temperature range	°C	-20 ~ +50		
Lifetime (50% brightness)	Hours	100,000		
Transparency	%	0	0	51