



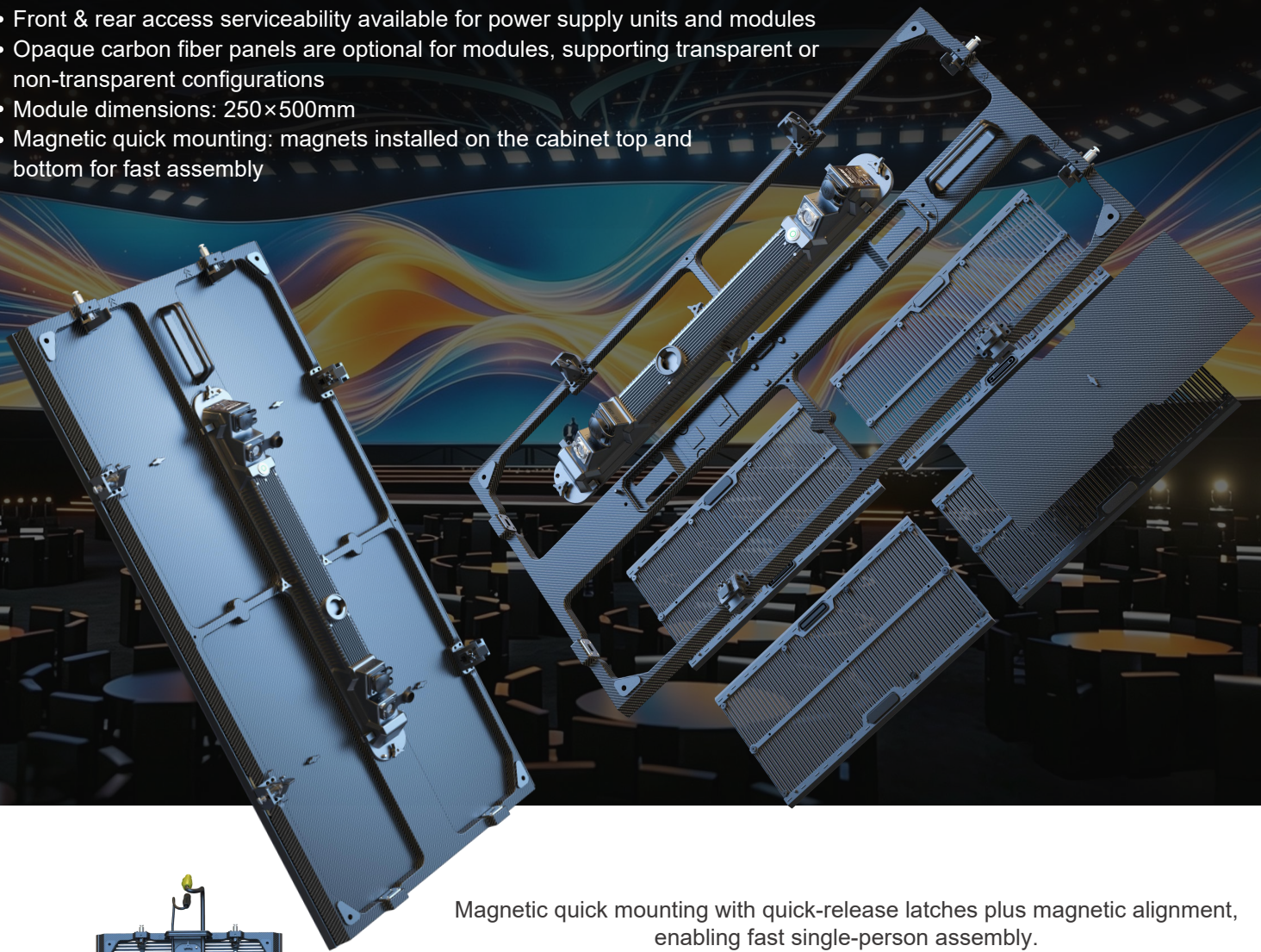
AeroCarbon Series

Carbon Fiber Outdoor Rental LED Display

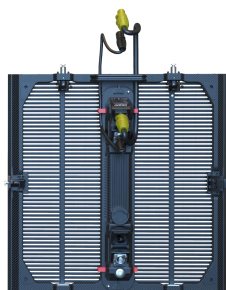
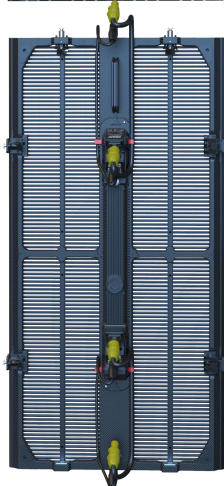
- **Ultra-Lightweight, High-Strength Carbon-Fiber Cabinet Frame**
Provides excellent deformation-resistant rigidity while greatly reducing the structural load on mounting systems
- **Optimized Airflow Design**
Combined with the ultra-thin carbon-fiber frame, the cabinet reaches a maximum air permeability of 57%, substantially reducing wind load on the display structure
- **Superior Weather Resistance & Corrosion Resistance**
The non-metallic carbon-fiber material withstands salt spray, UV radiation and chemical corrosion. It completely eliminates rust risks and is ideal for outdoor applications, such as coastal and high-humidity environments
- **Fast Installation & Easy Maintenance**
Lightweight cabinet with modular design for power boxes and modules, equipped with quick-release latch mechanisms for convenient replacement and maintenance. Installation and servicing can be completed by a single operator, cutting labor costs and shortening working hours on elevated-work platforms
- **High Contrast Ratio**
Features ultra-black cabinet and mask design

Cabinet Modular Design

- Front & rear access serviceability 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



Quick disassembly



Easy installation

IP

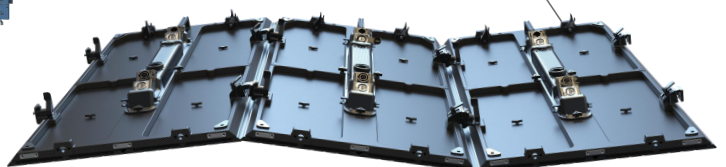
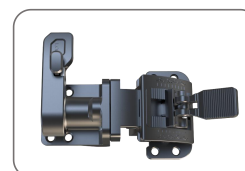
IP65 protection rating



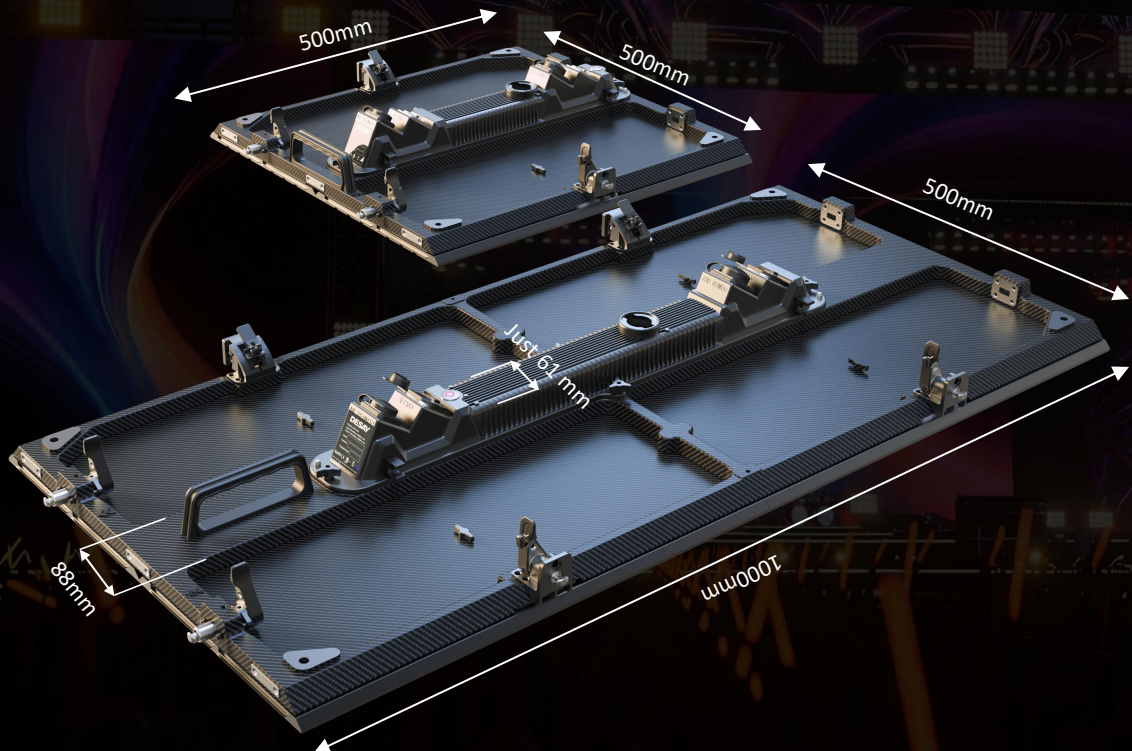
Ultra-thin form factor
just 88mm depth



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 heigh	mm	500/1000		
Panel depth	mm	88		
Panel area	m ²	0.25/0.5		
Panel material		Magnesium + Carbon fiber		
Panel weight	Kg	4.8/7.8	4.8/7.8	3.8/5.85
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