

Aeroframe AF1000

500x1000 mm Rental LED Display

Excel LED | excelleddisplay.com



Key features

- 0.5 m² per cabinet — half the panels for the same wall
- IP65 waterproof, front & rear for wet-weather outdoor events
- Outdoor brightness 4500–5000 nits for daylight stages
- 14.5 kg die-cast aluminum cabinet — one-person travel lock
- Half-arc lock -5°~+5° for straight & curved setups
- Interlocks vertically with the 500×500mm Aeroframe AF500

Compatibility & control

Category	Compatible	Notes
Cabinet interlock	Aeroframe AF1000 ↔ AF500 (vertical)	Interlocks vertically; mix sizes in one wall (confirm your mix with our engineers).
Module	250×250 mm	Shared across the Aeroframe pitch range.
Control system	Industry-standard control system — brand and model confirmed per project	We confirm the exact receiving card, sending card and firmware revision against your pixel count and scan mode before quotation.
Cabinet sealing	Indoor IP31 / outdoor IP65 (front & rear)	IP65 is defined by IEC 60529 as dust-tight and protected against water jets. Indoor cabinets are IP31 and are not for wet use.
Power input	AC90-264V, 47-63Hz	Wide-range input; size distribution per pitch.

Specifications — Indoor

Feature	P2.976	P3.91	P4.81
Pixel Pitch	2.976mm	3.91mm	4.81mm
LED Type	SMD1515	SMD2020	SMD2020
Module Resolution	84×84	64×64	52×52
Cabinet Resolution	168×336	128×256	104×208
Physical Density (dots/m²)	112896	65536	43264
Brightness	≥800 nits	≥1000 nits	≥1000 nits
Viewing Distance	6–200 m	4–100 m	4–100 m
Scan Mode	1/28	1/16	1/13
Module Size	250×250 mm		
Module Quantity	2×4 per cabinet		
Cabinet Size	500×1000×84 mm		
Cabinet Weight	14.5 kg		
Cabinet Material	Die-cast Aluminum		
Viewing Angle (H/V)	160° / 160°		
Contrast Ratio	15000 : 1		
Frame Frequency	50/60 Hz		
Grey Scale	12–16 bit (optional)		
Refresh Rate	3840–7680 Hz		
Color Temperature	5000–12000 K (optional)		
IP Rating	IP31		
Power (Max/Avg)	600 / 200–300 W/m²		
Power Input	AC90–264V, 47–63Hz		
Working Temp / Humidity	-20–60 °C / 10%–85% RH		
Storage Temp / Humidity	-20–60 °C / 10%–85% RH		
Maintenance	Front / Rear		
Standard	CCC / CE / RoHS / FCC / CB / TUV / IEC		

Specifications — Outdoor

Feature	P2.604	P2.976	P3.91	P4.81	P5.95
Pixel Pitch	2.604mm	2.976mm	3.91mm	4.81mm	5.95mm
LED Type	SMD1415	SMD1415	SMD1921	SMD1921	SMD2727
Module Resolution	96×96	84×84	64×64	52×52	42×42
Cabinet Resolution	192×384	168×336	128×256	104×208	84×168
Physical Density (dots/m²)	147456	112896	65536	43264	28224
Brightness	≥4500 nits	≥4500 nits	≥5000 nits	≥5000 nits	≥5000 nits
Viewing Distance	3–50 m	3–100 m	4–150 m	4–150 m	6–200 m
Scan Mode	1/32	1/28	1/16	1/13	1/7
Module Size	250×250 mm				
Module Quantity	2×4 per cabinet				
Cabinet Size	500×1000×84 mm				
Cabinet Weight	14.5 kg				
Cabinet Material	Die-cast Aluminum				
Viewing Angle (H/V)	160° / 160°				
Contrast Ratio	15000 : 1				
Frame Frequency	50/60 Hz				
Grey Scale	12–16 bit (optional)				
Refresh Rate	3840–7680 Hz				
Color Temperature	5000–12000 K (optional)				
IP Rating	IP65 (front & rear)				
Power (Max/Avg)	800 / 200–300 W/m²				
Power Input	AC90–264V, 47–63Hz				
Working Temp / Humidity	-20–60 °C / 10%–85% RH				
Storage Temp / Humidity	-20–60 °C / 10%–85% RH				
Maintenance	Front / Rear				
Standard	CCC / CE / RoHS / FCC / CB / TUV / IEC				

Aeroframe AF1000 vs sibling series

Feature	Aeroframe AF1000	Aeroframe AF500
Cabinet Size	500×1000×84 mm	500×500×84 mm
Weight	14.5 kg	8 kg
Coverage per cabinet	0.5 m ²	0.25 m ²
Indoor pitch range	P2.976–P4.81	P1.25–P4.81 (GOB on fine pitch)
Outdoor pitch range	P2.604–P5.95 (IP65)	P2.604–P5.95 (IP65)
Best for	Large outdoor spans, big event backdrops	Fine-pitch indoor, XR, curved creative

Specifications are taken from the Aeroframe R3 series product specification sheet (Excel LED). Indoor and outdoor variants differ in LED type, brightness, scan mode and IP rating; the cabinet, module and control platform are shared. Figures marked as typical are for preliminary reference and may be updated with product iteration; confirmed project values are issued with the quotation. IP65 is defined by IEC 60529. | excelleddisplay.com