

ROE
CREATIVE DISPLAY



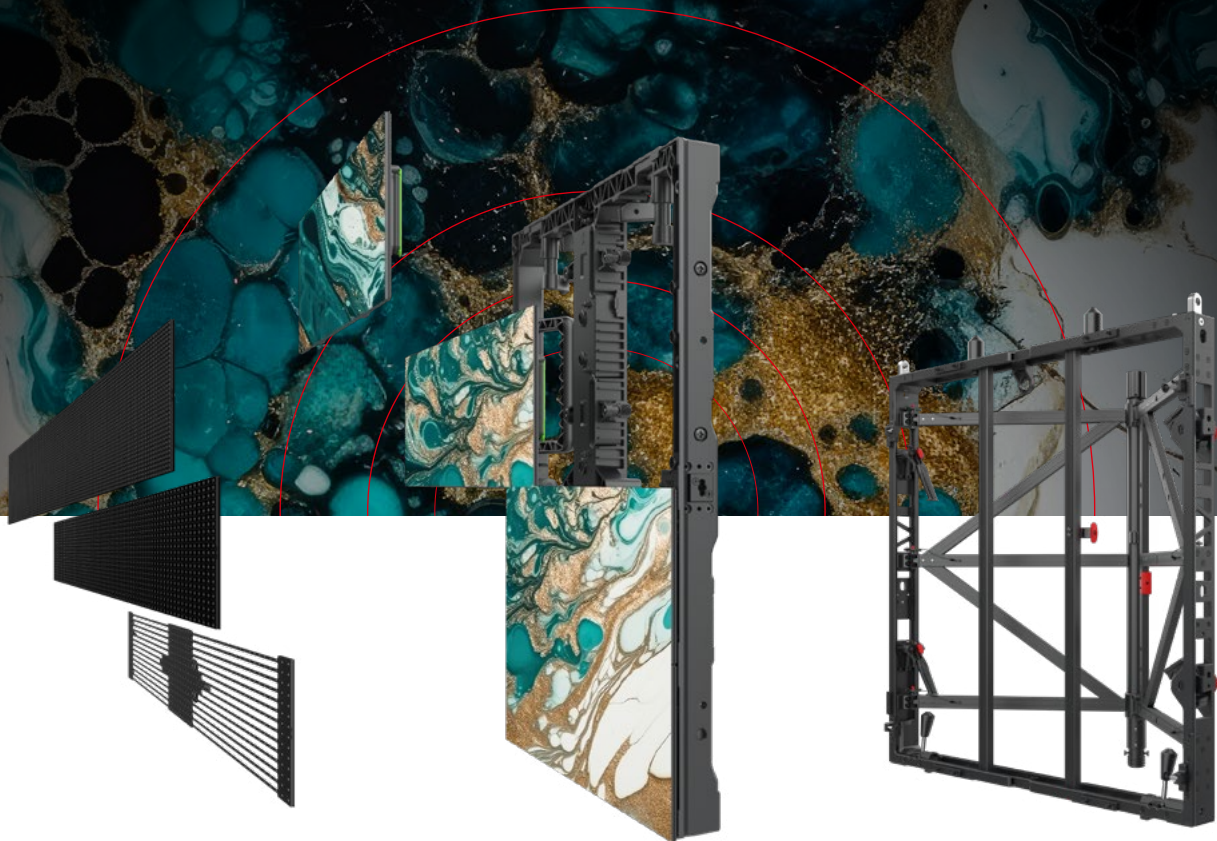
EMERALD

The Agile LED platform

IN- & OUTDOOR LED PANELS

One System. Every Scenario.

Emerald is the all-in-one solution for demanding rental markets, from large-scale outdoor productions to high-end indoor displays. Its scalable design, toolless assembly, and smart accessories make it the go-to choice for production companies seeking maximum adaptability with minimal effort, without compromising quality.

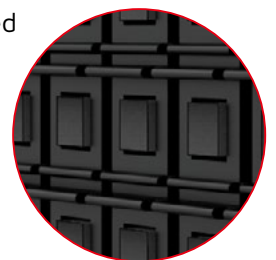


One Frame. Seamless Adaptability.

With Emerald, versatility comes built in. The base frame is engineered to support all module types — EM3.9-V, EM5.9, and EM8.9 — allowing you to switch between pixel pitches simply by replacing modules in the frame. Add the wind-resistant frame, and your indoor configuration transforms effortlessly into a rugged outdoor LED screen. Whether you're facing a stadium crowd or a corporate event, Emerald adapts — so you don't have to.

Built-in Protection. Enhanced Visuals.

The EM3.9-V and EM5.9 modules come equipped with integrated shaders above each LED and a protective edge below. This dual design not only shields the LEDs from impact during handling and use, but also improves contrast by reducing ambient light reflections. Whether you're working in bright environments or fast-paced rental settings, Emerald delivers performance you can rely on — pixel by pixel.



“ **Designed for indoor and outdoor use, this agile LED solution adapts effortlessly to your rental needs—season after season** ”

Pure Impact. Uncompromised Visuals.

Prepare to mesmerize your audience with the dazzling brilliance of the Emerald LED panel series, boasting high brightness and contrast features that immerse viewers in vivid visual spectacles. With up to 5000 nits of brightness, Emerald is your answer to outdoor events.

No Limits. Full Flexibility.

The Emerald LED panel is designed to meet the shifting demands of live events, touring, and fixed installations across all seasons. With multiple panel sizes and a modular, wind-resistant frame that can be added when needed, Emerald lets you build bold, boundary-free setups indoors or out. Wherever your creativity takes you, Emerald is ready to perform.

Less Effort. Smarter Setup.

Live events are all about efficiency, and your gear should be able to keep up. Built with a lightweight magnesium alloy frame, Emerald weighs just 15.9 kg per square meter—20% lighter than most indoor LED panels. This smart design simplifies logistics, speeds up installation, and reduces labor costs, helping crews move fast without compromising stability or durability.



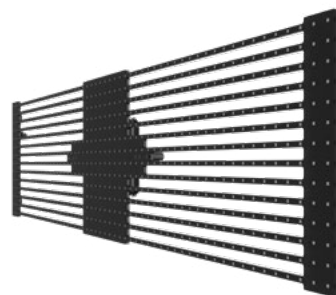


Interchangeable Modules. Reliable Uptime.

When time matters, maintenance should be quick and hassle-free. Emerald's interchangeable magnetic LED modules and integrated quick-release screws make repairs and replacements seamless, minimizing downtime and maximizing operational reliability. The result? A system you can count on, with less disruption and more peace of mind.

Lightweight Design. Limitless Creativity.

The EM8.9 adds a creative edge to the Emerald platform with 30% transparency, making it ideal for innovative stage designs and eye-catching visual effects at concerts and live events. Its see-through structure opens up new possibilities for lighting integration and layered depth, while its reduced weight makes it easier to handle and transport.





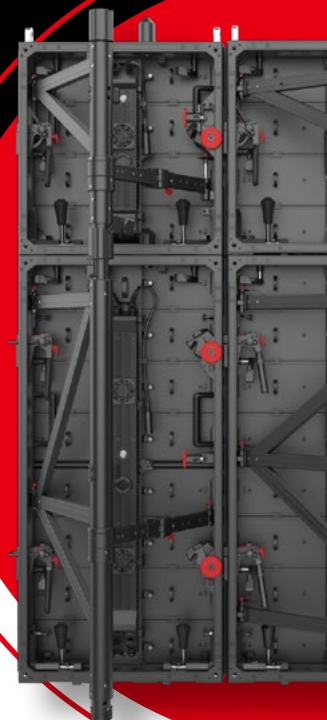
Foldable Wind-load Bracing System



High Contrast & High Brightness LED



Light panel and Touring Frame



Designed to Curve. Built to Impress.

Whether your design calls for a concave sweep or a clean, linear setup, Emerald's ability to curve with precision from 10 to -10 degrees adds powerful visual dimension to any stage or screen. This versatility opens new creative possibilities while keeping the setup efficient and structurally sound.

Curving Capability



Fast and Easy Service Access



Clever Storage with Dedicated Dollies



Panel Curve



Frame Curve

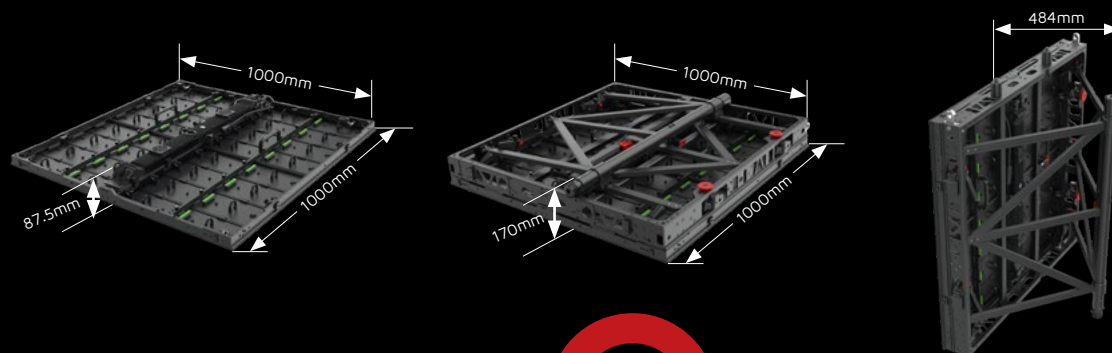


Specifications

Emerald	EM3.9-V	EM3.9-Q
Pixel Pitch	3.9mm	3.9mm
Max Brightness	5000nits	5000nits
Panel Dimension	500 x 1000 x 87.5 mm 19.69" x 39.4" x 3.44"	500 x 500 x 89.5 mm 19.69" x 19.69" x 3.52"
Panel Dimension with support frame close	500 x 1000 x 190 mm 19.69" x 39.4" x 7.48"	500 x 500 x 190 mm 19.69" x 19.69" x 7.48"
Panel Dimension with support frame open	500 x 1000 x 484 mm 19.69" x 39.4" x 19.06"	500 x 500 x 484mm 19.69" x 19.69" x 19.06"
Panel Resolution (H x V)	128 x 256	128 x 128
Panel Weight	9.6kg; 21.16lbs	5.8kg; 12.79lbs
Panel Weight (with frame and ladder)	25.1kg; 55.34lbs	17.3kg; 38.14lbs
Power Consumption Max / Avg	400W / 200W	200W / 100W
BTU Max / Average	1365 / 630	680 / 315
Serviceability	Front / Rear	Front / Rear
Panel Curving	Concave 10°-Convex 10°	Concave 10°-Convex 10°
Frame Curving	Concave 10°, 0°, Convex 10°	Concave 10°, 0°, Convex 10°
Max. Hanging (panels)	16 (24 with frame and ladders)	-
Max. Stacking (panels)	6	6
LED Configuration	SMD 1415 Black	SMD 1415 Black
Viewing Angle Horizontal	160°	160°
Viewing Angle Vertical	120°	120°
Scan Ratio	1/8	1/8
Refresh Rate	7680Hz	7680Hz
Gray Scale	16bit	16bit
Frame Material	Magnesium alloy	Magnesium alloy
Processing Platform	Brompton / Megapixel / Evision	Brompton / Megapixel / Evision
Operational Temp / Humidity	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH
Storage Temp / Humidity	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH
IP Rating	IP65	IP65
Certifications	CE, FCC, ETL, UKCA, WEEE, ROHS	CE, FCC, ETL, UKCA, WEEE, ROHS

Notes: The specifications are for reference, actual values may vary.

Dimensions



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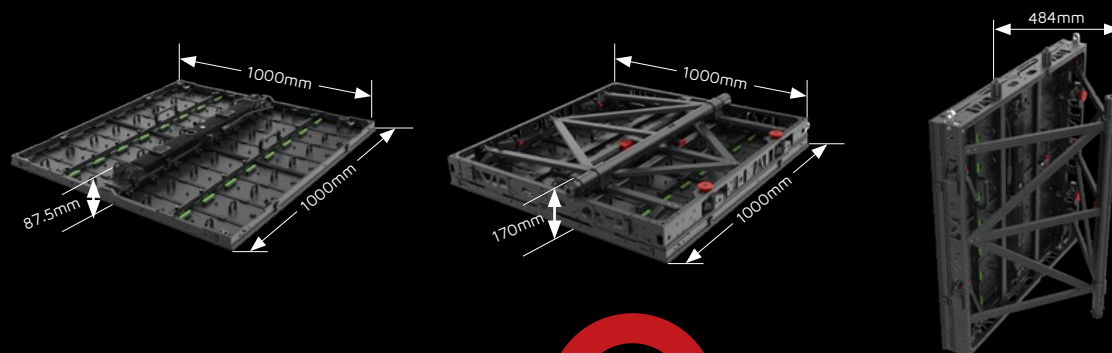
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Specifications

Emerald	EM5.9	EM5.9-H	EM5.9-V	EM-Q
Pixel Pitch	5.9mm	5.9mm	5.9mm	5.9mm
Max Brightness	5000nits	5000nits	5000nits	5000nits
Panel Dimension	1000 x 1000 x 87.5 mm 39.4" x 39.4" x 3.44"	1000 x 500 x 89.5 mm 39.4" x 19.69" x 3.52"	500 x 1000 x 87.5 mm 19.69" x 39.4" x 3.44"	500 x 500 x 89.5 mm 19.69" x 19.69" x 3.52"
Panel Dimension with support frame close	1000 x 1000 x 170 mm 39.4" x 39.4" x 6.69"	1000 x 500 x 170 mm 39.4" x 19.69" x 6.69"	500 x 1000 x 190 mm 19.69" x 39.4" x 6.69"	500 x 500 x 190 mm 19.69" x 19.69" x 6.69"
Panel Dimension with support frame open	1000 x 1000 x 484 mm 39.4" x 39.4" x 19.06"	1000 x 500 x 484mm 39.4" x 19.69" x 19.06"	500 x 1000 x 484 mm 19.69" x 39.4" x 19.06"	500 x 500 x 484 mm 19.69" x 19.69" x 19.06"
Panel Resolution (H x V)	168 x 168	168 x 84	84 x 168	84 x 84
Panel Weight	15.9kg; 35.05lbs	9.2kg; 20.28lbs	10.0kg; 22.05lbs	6.0kg; 13.23lbs
Panel Weight (with frame and ladder)	38.4kg; 84.66lbs	24.5kg; 54.01lbs	25.5kg; 56.22lbs	17.5kg; 38.58lbs
Power Consumption Max / Avg	720W / 360W	360W / 180W	360W / 180W	180W / 90W
BTU Max / Average	2455 / 1130	1230 / 565	1230 / 565	615 / 280
Serviceability	Front / Rear	Front / Rear	Front / Rear	Front / Rear
Panel Curving	Concave 10°-Convex 10°	Concave 10°-Convex 10°	Concave 10°-Convex 10°	Concave 10°-Convex 10°
Frame Curving	Concave 10°, 0°, Convex 10°	Concave 10°, 0°, Convex 10°	Concave 10°, 0°, Convex 10°	Concave 10°, 0°, Convex 10°
Max. Hanging (panels)	16 (24 with frame and ladders)	-	-	-
Max. Stacking (panels)	6	12	6	12
LED Configuration	SMD 1921 Black	SMD 1921 Black	SMD 1921 Black	SMD 1921 Black
Viewing Angle Horizontal	160°	160°	160°	160°
Viewing Angle Vertical	130°	130°	130°	130°
Scan Ratio	1/7	1/7	1/7	1/4
Refresh Rate	7680Hz	7680Hz	7680Hz	7680Hz
Gray Scale	16bit	16bit	16bit	16bit
Frame Material	Magnesium alloy	Magnesium alloy	Magnesium alloy	Magnesium alloy
Processing Platform	Brompton / Megapixel / Evision	Brompton / Megapixel / Evision	Brompton / Megapixel / Evision	Brompton / Megapixel / Evision
Operational Temp / Humidity	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH
Storage Temp / Humidity	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH
IP Rating	IP65	IP65	IP65	IP65
Certifications	CE, FCC, ETL, UKCA, WEEE, ROHS	CE, UKCA, WEEE, ROHS	CE, FCC, ETL, UKCA, WEEE, ROHS	CE, FCC, ETL, UKCA, WEEE, ROHS

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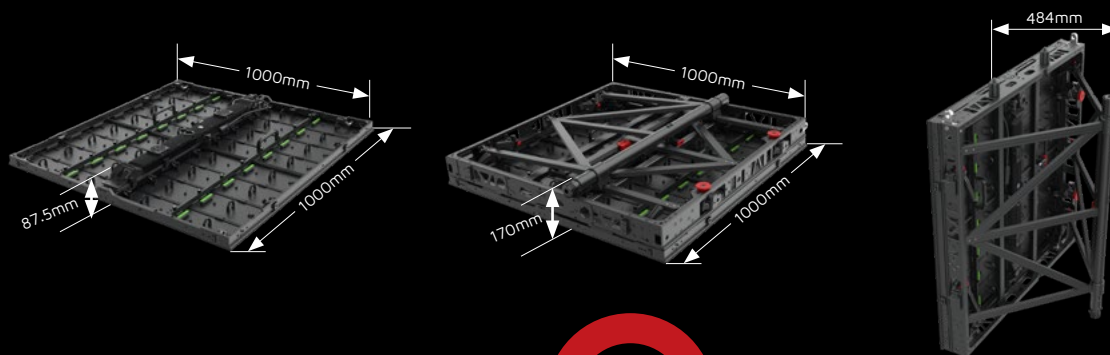
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Specifications

Emerald	EM8.9 GOB	EM8.9-H GOB	EM8.9-V GOB	EM8.9-Q GOB
Pixel Pitch	8.9mm	8.9mm	8.9mm	8.9mm
Max Brightness	4500nits	4500nits	4500nits	4500nits
Panel Dimension	1000 x 1000 x 87.5 mm 39.4" x 39.4" x 3.44"	1000 x 500 x 89.5 mm 39.4" x 19.69" x 3.52"	500 x 1000 x 87.5 mm 19.69" x 39.4" x 3.44"	500 x 500 x 89.5 mm 19.69" x 19.69" x 3.52"
Panel Dimension with support frame close	1000 x 1000 x 170 mm 39.4" x 39.4" x 6.69"	1000 x 500 x 170 mm 39.4" x 19.69" x 6.69"	500 x 1000 x 190 mm 19.69" x 39.4" x 6.69"	500 x 500 x 190 mm 19.69" x 19.69" x 6.69"
Panel Dimension with support frame open	1000 x 1000 x 484 mm 39.4" x 39.4" x 19.06"	1000 x 500 x 484 mm 39.4" x 19.69" x 19.06"	500 x 1000 x 484 mm 19.69" x 39.4" x 19.06"	500 x 500 x 484 mm 19.69" x 19.69" x 19.06"
Panel Resolution (H x V)	112 x 112	112 x 56	56 x 112	56 x 56
Panel Weight	12.5kg; 27.56lbs	7.5kg; 16.53lbs	8.3kg; 18.3lbs	5.2kg; 11.46lbs
Panel Weight (with frame and ladder)	35.0kg; 77.16lbs	22.8kg; 50.27lbs	23.8kg; 52.47lbs	16.7kg; 36.82lbs
Power Consumption Max / Avg	570W / 285W	290W / 145W	300W / 150W	150W / 75W
BTU Max / Average	1945 / 895	990 / 455	1025 / 470	510 / 235
Transparency	48%	45%	43%	40%
Serviceability	Front / Rear	Front / Rear	Front / Rear	Front / Rear
Panel Curving	Concave 10°-Convex 10°	Concave 10°-Convex 10°	Concave 10°-Convex 10°	Concave 10°-Convex 10°
Frame Curving	Concave 10°, 0°, Convex 10°	Concave 10°, 0°, Convex 10°	Concave 10°, 0°, Convex 10°	Concave 10°, 0°, Convex 10°
Max. Hanging (panels)	16 (24 with frame and ladders)	-	-	-
Max. Stacking (panels)	6	12	6	12
LED Configuration	SMD 1415 White	SMD 1415 White	SMD 1415 White	SMD 1415 White
Viewing Angle Horizontal	160°	160°	160°	160°
Viewing Angle Vertical	160°	160°	160°	160°
Scan Ratio	1/4	1/4	1/4	1/4
Refresh Rate	7680Hz	7680Hz	7680Hz	7680Hz
Gray Scale	16bit	16bit	16bit	16bit
Frame Material	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
Processing Platform	Brompton / Megapixel / Evison	Brompton / Megapixel / Evison	Brompton / Megapixel / Evison	Brompton / Megapixel / Evison
Operational Temp / Humidity	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH	-20°-45°C, 10-90%RH -4°-113°F, 10-90%RH
Storage Temp / Humidity	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH	-40°-60°C, 10-90%RH -40°-140°F, 10-90%RH
IP Rating	IP65	IP65	IP65	IP65
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