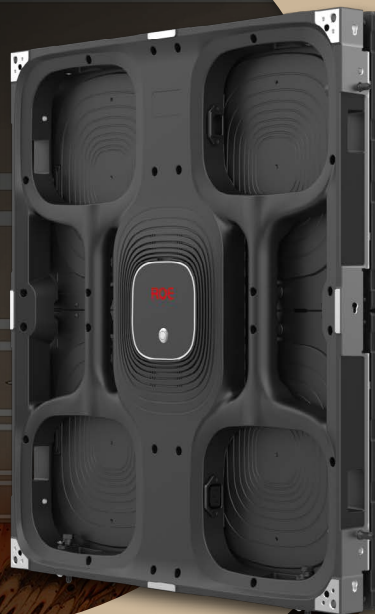# ROE Display Solutions

Coral

Fine Pitch COB LED Panel for Unparalleled Visuals

INDOOR FIXED INSTALL

Introducing Coral, a high-performance LED panel platform for permanent installations. Featuring Chip on Board (COB) technology, Coral delivers high contrast, a wide color gamut, and outstanding color accuracy for a superior high-definition viewing experience. Its energy-efficient common cathode design reduces costs and extends service life, making it a sustainable choice.
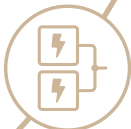
HDR HDR supported LED technology
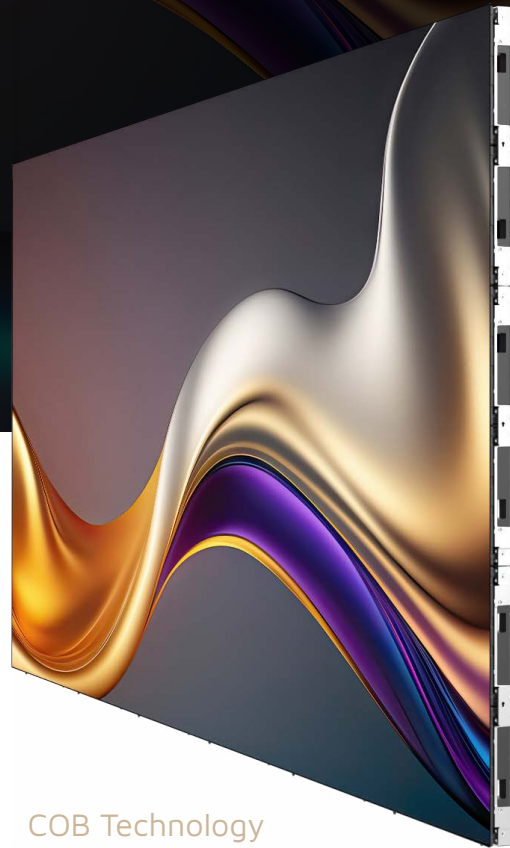
COB technology

Sustainable choice, low energy consumption

Waterproof LED panel surface

Power redundancy

COB Technology

Flip Chip COB Technology

Coral features COB technology, providing an LED panel with an anti-static, water-resistant surface. Its protective layer safeguards the LED pixels, ensuring even the smallest pixel pitches maintain a minimal failure rate. Designed for stability and reliability, the Coral LED panel delivers consistent performance with minimal maintenance requirements.

Coral – An Impeccable Visual Experience

Coral delivers outstanding visual performance, making it ideal for high-demand environments such as hospitality and corporate applications, where every detail matters. Designed with precision, it features a remarkable 1000-nit brightness and an ultra-high 7680Hz refresh rate. Its 8:9 aspect ratio ensures seamless integration with native 4K and 8K resolutions, guaranteeing stunning, high-quality visuals.

Energy Efficient for Long-Term Savings

Coral's innovative Flip-Chip common cathode LED design and carefully selected components reduce energy consumption by 50% while minimizing heat generation. Its customized Power Supply Unit (PSU) features a standby/power-off mode, automatically shutting down when not in use for enhanced energy efficiency. By extending the panel's lifecycle, Coral supports a sustainable approach while lowering the total cost of ownership.

50% Reduction

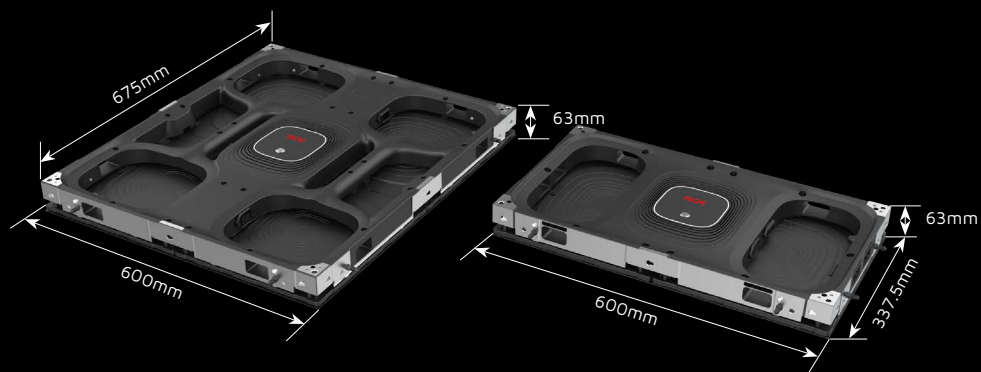## Superior Flatness with Large-Size Modules

Coral is available in 0.9mm, 1.2mm, and 1.5mm pixel pitches, delivering exceptional image quality with remarkable detail. Measuring 600mm x 675mm, its large 300mm x 337.5mm module is 2-4 times bigger than conventional panels. This reduces the need for frequent Z-axis adjustments, ensuring superior flatness—essential for fixed installations—while also minimizing labor requirements.

3840 x 2160 (4K)

Coral 1.5
W: 10 x H: 5
6m x 3.375m

Coral 1.2
W: 8 x H: 4
4.8m x 2.7m

Coral 0.9
W: 6 x H: 3
3.6m x 2.025m

Specifications

Coral	Coral 0.9	Coral 0.9 Half	Coral 1.2	Coral 1.2 Half	Coral 1.5	Coral 1.5 Half
Pixel Pitch	0.9375mm	0.9375mm	1.25mm	1.25mm	1.5625mm	1.5625mm
LED Configuration	COB	COB	COB	COB	COB	COB
Brightness (Nit or CD/m²)	1000nits	1000nits	1000nits	1000nits	1000nits	1000nits
Panel Dimension	600mm x 675mm x 63mm 23.62'' x 26.57'' x 2.48''	600mm x 337.5mm x 63mm 23.62'' x 13.29'' x 2.48''	600mm x 675mm x 63mm 23.62'' x 26.57'' x 2.48''	600mm x 337.5mm x 63mm 23.62'' x 13.29'' x 2.48''	600mm x 675mm x 63mm 23.62'' x 26.57'' x 2.48''	600mm x 337.5mm x 63mm 23.62'' x 13.29'' x 2.48''
Module Size (W x H)	300mm x 337.5mm	300mm x 337.5mm	300mm x 337.5mm	300mm x 337.5mm	300mm x 337.5mm	300mm x 337.5mm
Panel Resolution (H x V)	640 x 720	640 x 360	480 x 540	480 x 270	384 x 432	384 x 216
Weight Per Panel	11.6kg; 25.57lbs	8.2kg; 18.08lbs	11.6kg; 25.57lbs	8.2kg; 18.08lbs	11.6kg; 25.57lbs	8.2kg; 18.08lbs
Power Consumption Max / Average	120W / 60W	70W / 35W	120W / 60W	70W / 35W	120W / 60W	70W / 35W
BTU Max / Average	410 / 190	240 / 110	410 / 190	240 / 110	410 / 190	240 / 110
Transparency	Solid	Solid	Solid	Solid	Solid	Solid
Serviceability	Front	Front	Front	Front	Front	Front
Viewing Angle Horizontal	160°	160°	160°	160°	160°	160°
Viewing Angle Vertical	140°	140°	140°	140°	140°	140°
Scan Ratio	1/36	1/36	1/27	1/27	1/27	1/27
Refresh Rate	3840Hz	3840Hz	7680Hz	7680Hz	7680Hz	7680Hz
Gray Scale	16bit	16bit	16bit	16bit	16bit	16bit
Frame Material	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum
Processing Platform	Brompton / Megapixel / Novastar	Brompton / Megapixel / Novastar	Brompton / Megapixel / Novastar	Brompton / Megapixel / Novastar	Brompton / Megapixel / Novastar	Brompton / Megapixel / Novastar
Installation	Hanging / Stacking / Mounting	Hanging / Stacking / Mounting	Hanging / Stacking / Mounting	Hanging / Stacking / Mounting	Hanging / Stacking / Mounting	Hanging / Stacking / Mounting
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	-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	-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 (Front/Reverse)	IP40	IP40	IP40	IP40	IP40	IP40

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

Dimensions

675mm / 600mm / 63mm / 63mm / 600mm / 337.5mm

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