Lightweight

Measuring 600x1200mm, 23.6" x 47.2" the sleek Carbon family panels have a weight of only 13,9kg/30.6lbs per panel.
With the slim panel design and great frame and dolly options, you can save costs on shipping and labor.

In and Outdoor

Comprised of bright, high-contrast LEDs, the CB5 and CB8 panels offer a perfect in and outdoor large format solution.
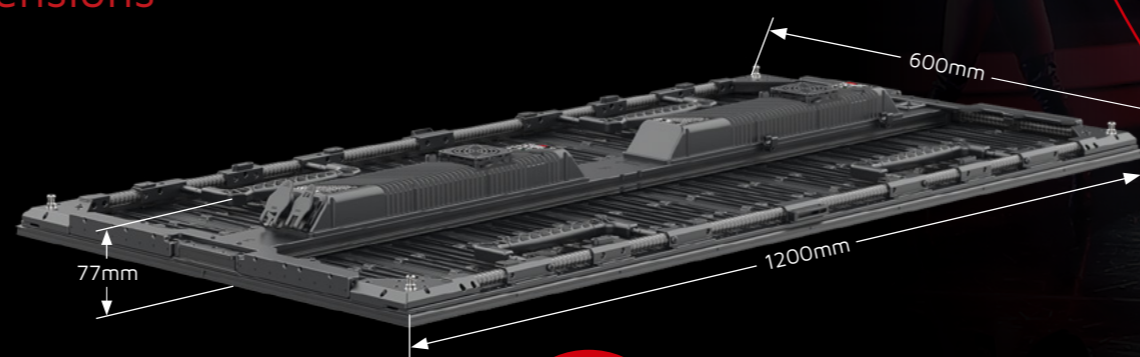
Specifications

Module	CB3	CB5	CB5	CB8
Pixel Pitch	3.75mm	5.77mm	5.77mm	8.33mm
Max. Brightness Calibrated	1,500nits	6,000nits	4,500nits	5,000nits
Panel Dimension	600 x 1200 x 77mm 23.6" x 47.2" x 3.0"	600 x 1200 x 77mm 23.6" x 47.2" x 3.0"	600 x 1200 x 77mm 23.6" x 47.2" x 3.0"	600 x 1200 x 72mm 23.6" x 47.2" x 2.8"
Panel Resolution (H x V)	160 x 320	104 x 208	104 x 208	72 x 144
Weight Per Panel	13.2kg; 29.10lbs	13.85kg; 30.53lbs	13.85kg; 30.53lbs	12.68kg; 27.96lbs
Power Consumption Max/Average	540W / 270W	500W / 250W	650W / 325W	430W / 215W
BTU Max/Average	1842 / 847	1706 / 785	2218 / 1020	1467 / 675
Transparency	Solid	Solid	Solid	Solid
Serviceability	No	No	No	No
Curving (Concave & Convex)*3	Concave 15°-Convex 10°	Concave 15°-Convex 10°	Concave 15°-Convex 10°	Concave 15°-Convex 10°
Max. Hanging (panels)*1	12	12	12	12
Max. Stacking (panels)*2	5	5	5	5
LED Configuration	SMD 2020 Black	SMD 1921 White	SMD 1921 Black HB	SMD 2727 White
Viewing Angle Vertical	140°	110°	110°	110°
Viewing Angle Horizontal	140°	140°	140°	140°
Multiplexing	16	4	4	6
Refresh Rate	1920Hz	3840Hz	3840Hz	2880Hz
Gray Scale	16bit	16bit	16bit	16bit
Frame Material	Carbon Fiber and Magnesium Alloy	Carbon Fiber and Magnesium Alloy	Carbon Fiber and Magnesium Alloy	Carbon Fiber and Magnesium Alloy
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	Indoor	Outdoor	Outdoor	Outdoor
Certifications	CE, ETL, FCC, ROHS	CE, ETL, FCC	CE, ETL, FCC	CE, ETL, FCC, ROHS

*Notes:
1. The max. hanging amount is only valid when the ROE Visual hanging bar and complementary accessories are used and in an indoor situation. No climbing is allowed.
2. The max. stacking amount is only valid when the ROE Visual stacking system and complementary accessories are used, sufficient ballast is applied and in an indoor situation. No climbing is allowed.
3. Convex curving ability only applies to custom tiles.

Dimensions

600mm

77mm

1200mm

Your Stage
Our Passion

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ROE
CREATIVE DISPLAY

CARBON FAMILY

Touring LED Applications Made Easy

IN- & OUTDOOR LED PANELS

THE CARBON FAMILY BY ROE VISUAL OFFERS THE IDEAL LIGHTWEIGHT LED SOLUTION FOR TOURING APPLICATIONS.
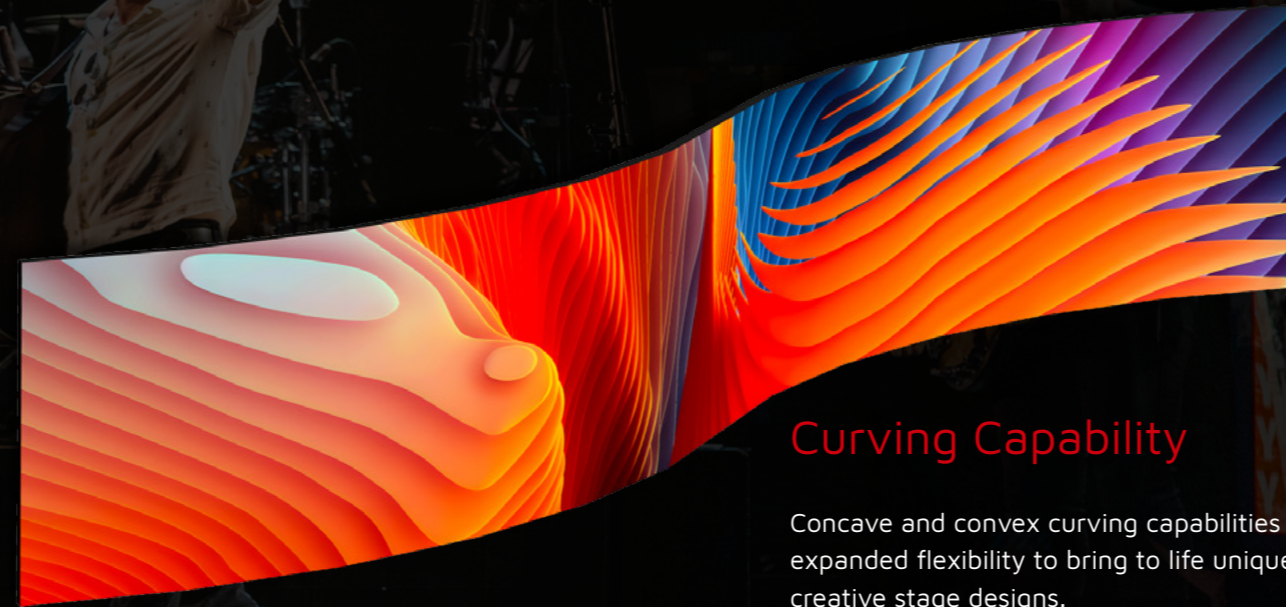
Air Frame

Air Frame is a lightweight touring system that is compatible with the Carbon family of product (CB5, CB8) panels.
It provides a convenient all-in-one solution for hanging, stacking and transportation.

Curving Capability

Concave and convex curving capabilities provide expanded flexibility to bring to life uniquely creative stage designs.

T Dolly

ROE's innovative technology and use of carbon fiber frame design reduces pre-tour engineering time.
Our lightweight Air Frame uses minimal trailer space, contributing to cost savings in shipping, truck load weight and air freight costs when compared to conventional touring frames.

Half-panel Option

While the standard panel is 600mmx1200mm (w x h), we also manufacture half-panels at 600mmx600mm for the ability to customize corners and edges.
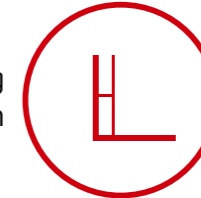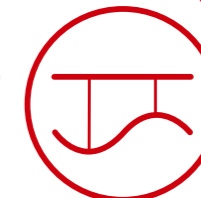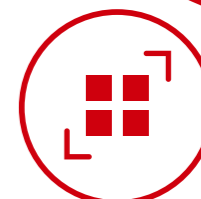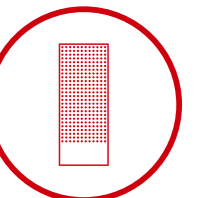
Easy-to-build

Equipped with the integrated magnet-assisted assembly, easy setup in both hanging or stacking configurations and great options for touring frames, the Carbon Family panels guarantee effortless and swift building of your LED screen.

Half panel

Curve-able

90° corner

Hanging System

Stacking System

LED ceiling

Pixel pitch
CB3 - 3.75mm
CB5 - 5.77mm
CB8 - 8.33mm

Dummy panel