

ROE
CREATIVE DISPLAY




Carbon MarkII

Ultra-Light LED Solution

OUTDOOR LED PANELS

Less Weight Stronger Structure



With a 12% weight reduction compared to the Carbon series, the Carbon5 MarkII offers a stronger structure, while reducing the weight. Measuring 600*1200mm, the panel weighs only 17kg/m²; Ideal for touring in combination with frame and dolly options. The reduced weight and easy handling will lower costs on transportation and labor.



12%
WEIGHT REDUCTION

Carbon MarkII



Tube diameter **42%** increased

Hanging



Stacking



Dolly



Air Frame



All-In-One Solution

The Carbon MarkII panel offers improved integration, the frame now adapts to T4 and Air Frame.

The Carbon MarkII Series panels can curve in both convex and concave directions. Its flexible design is suited for outdoor applications.



Carbon MarkII

A Light Weight LED Solution, Born for Touring

Build Your Ceiling with Ease

The Carbon MarkII offers special-designed modules when used as LED ceiling. Using these will result in a much better color performance, ideal for film and studio applications.

Fast Installation with Detailed Design

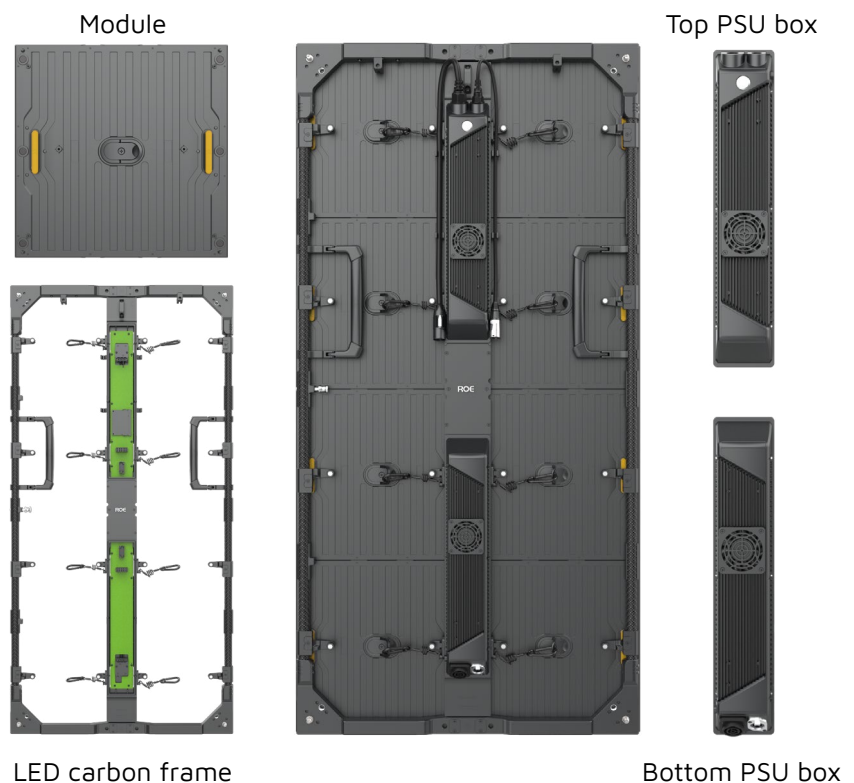
Universal Module and Snap-Fit Mask

The Carbon MarkII panel is easier to install and maintain. The module and mask design guarantee efficient servicing.

The modules can be exchanged on each position and the mask can be snapped on and off easily.

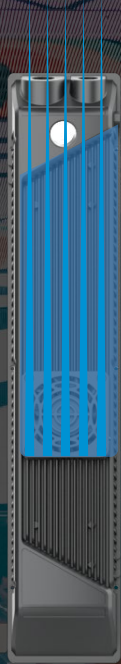
Magnet-Assisted Assembly

LED wall assembly now is much easier and labor-saving with the modified magnet-assisted assembly.



Improved Heat Dissipation

The new PSU box is designed to optimize heat dissipation. This results in a stable LED performance, specially in outdoor conditions when used on high brightness.



Ultra light weight



Fast installation



Touring frame compatible



NEW

Carbon MarkII

Outdoor use



UVA (Uniform Viewing Angle) Technology

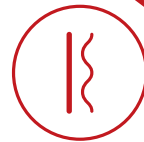
UVA technology applies to special-designed modules when used as LED ceilings. UVA technology help LEDs get much better color performance, reduce the color deviation phenomenon, and improve uniformity as the lighting resource.

The UVA technology is now an available option to customize on the CB5 MKII and CB3 panels, which are ideal for Virtual Production studios.

Heat dissipation



Curved configuration possible



Normal



UVA Ceiling Technology



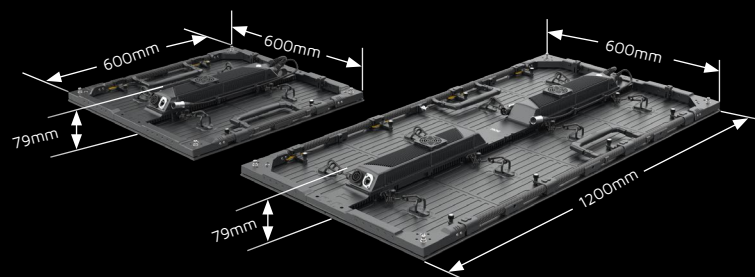
Specifications

| Carbon MarkII | CB3 MKII | CB5 MKII | CB8 MKII |
|---------------------------------|---|---|---|
| Pixel Pitch | 3.75mm | 5.77mm | 8.33mm |
| Max Brightness Calibrated | 4500nits (black) | 6000nits | 6000nits |
| Panel Dimension | 600mm x 1200mm x 79mm 23.6" x 47.2" x 3.1" | 600mm x 1200mm x 79mm 23.6" x 47.2" x 3.1" | 600mm x 1200mm x 79mm 23.6" x 47.2" x 3.1" |
| Panel Resolution (H x V) | 160 x 320 | 104 x 208 | 72 x 144 |
| Panel Weight | 14kg / 31lbs | 12.2kg / 26.8lbs | 11kg / 24.3lbs |
| Power Consumption Max / Average | 600W / 300W | 480W / 240W | 530W / 260W |
| BTU Max / Average | 2050 / 945 | 1640 / 755 | 1810 / 835 |
| Transparency | Solid | Solid | 23% |
| Serviceability | Front / Rear | Front / Rear | Front / Rear |
| Curving (Concave & Convex)*1 | Concave 15°~Convex 10° | Concave 15°~Convex 10° | Concave 15°~Convex 10° |
| Max. Hanging (panels)*2 | 12 | 12 | 12 |
| Max. Stacking (panels)*3 | 5 | 5 | 5 |
| LED Configuration | SMD 1515 black | SMD 1921 white | SMD 1921 white |
| Viewing Angle Horizontal | 140° | 140° | 140° |
| Viewing Angle Vertical | 110° | 110° | 110° |
| Scan Ratio | 1/10 | 1/4 | 1/4 |
| Refresh Rate | 3840Hz | 7680Hz | 7680Hz |
| Gray Scale | 16bit | 16bit | 14bit |
| Frame Material | Carbon Fiber + Magnesium Alloy | Carbon Fiber + Magnesium Alloy | Carbon Fiber + Magnesium Alloy |
| Processing Platform | 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 |
| 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 |
| IP Rating (Front / Rear) | IP65 | IP65 | IP65 |
| Certifications | CE, ETL, FCC, UKCA | CE, ETL, FCC, UKCA | CE, ETL, FCC, UKCA |

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

1. Convex curving ability only applies to custom tiles.
2. The max. hanging amount is only valid when the ROE Visual hanging bar and complementary accessories are used and in an indoor situation, safety factor is 8. No climbing is allowed.
3. 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.

Dimensions



www.roevisual.com

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