Perfect Performance

What's critical in virtual production environments?
A stable LED performance and perfect in-camera visuals.
Ruby offers just that, with it's high-performance LEDs
and Driver IC's high brightness, refresh rates, and accurate
color representation are within grasp.

Advanced LED Technology
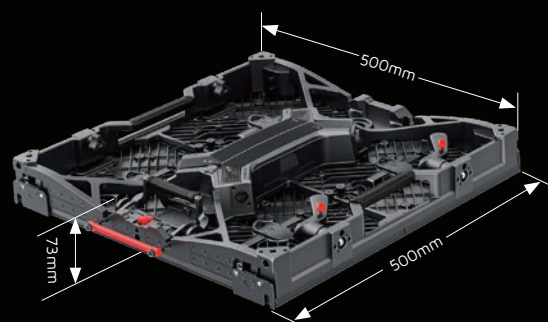## for Virtual Production Purposes

How to comprise the latest technology into an advanced LED panel
and translate that to an outstanding performance? ROE Visual has
done just that. The Ruby LED panels are a new generation of LED
panels equipped with features that are beneficial for any studio of film
related environment.

Specifications

Ruby	RB1.9B	RB1.9B V2	RB2.6F
Pixel Pitch	1.95mm	1.95mm	2.604mm
Max Brightness Calibrated	1500nits	1500nits	2500nits
Panel Dimension	500mm x 500mm x 73mm 19.7" x 19.7" x 2.87"	500mm x 500mm x 73mm 19.7" x 19.7" x 2.87"	500mm x 500mm x 73mm 19.7" x 19.7" x 2.87"
Panel Resolution (H x V)	256 x 256	256 x 256	192 x 192
Panel Weight	8.8kg; 19.4lbs	8.8kg; 19.4lbs	8.02kg;17.68lbs
Power Consumption Max / Average	160 / 80W	160W / 80W	210W / 105W
BTU Max / Average	546 / 251	546 / 251	717 / 330
Transparency	Solid	Solid	Solid
Serviceability	Front / Rear	Front / Rear	Front / Rear
Curving (Concave & Convex) *1	Concave 5°-Convex 3°	Concave 5°-Convex 3°	Concave 5°-Convex 5°
Max. Hanging (panels) *2	20	20	20
Max. Stacking (panels) *3	12	12	12
LED Configuration	SMD1212 Black	SMD1212 Black	1515 Flip Chip
Viewing Angle Horizontal	140°	140°	140°
Viewing Angle Vertical	140°	140°	140°
Refresh Rate	3840Hz	7680Hz	7680Hz
Gray Scale	14bit	16bit	16bit
Frame Material	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
Processing Platform	MVR / Brompton	MVR / Brompton	MVR / Brompton
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	Indoor	Indoor	Indoor
Certifications	CE, ETL, FCC	CE, ETL, FCC	CE, ETL, FCC, RoHS
3D Ready	Yes	Yes	Yes

*Notes: 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

500mm
500mm
73mm

YOUR STAGE
OUR PASSION

www.roevisual.com

Ruby

Ideal for Virtual Production Solutions

INDOOR LED PANELS

Your virtual background, Visualised better than ever before

140°

Easy Maintenance

With both front and rear module service, the Ruby panels are easy to maintain. The integrated PSU and Hub unit make repair and replacement of spare parts easy and cost-effective.

A Multitude of Shades of Black Coming Alive

With its incredible 16-bit gray scale Ruby offers precision imagery, showing black in endless scales and fluent gradients.

The New Standard for Stunning Visuals

High Brightness

HDR supported LED technology

HDR

Modular design PSU and HUB combined in one unit

Front and rear module service

Automatic edge-protection

Right Angle

Curving Options

Unprecedented Viewing Angle

The absence of any mask enables an unprecedented wide viewing angle. With its high-brightness LED performance, the Ruby panels give an excellent visual performance for both direct viewing and in-camera visuals.

Automatic Edge Protection

The Ruby LED panels incorporate automatic edge-protection on each panel corner, thereby reducing pixel damage drastically. The magnet-assisted assembly and vertically operated side locks with Z-axis correction make assembly quick, accurate and easy.

Details that Matter

Each application asks for a specific solution. The LED types for Ruby's virtual production based LED solutions are carefully chosen to offer high contract, a wide viewing angle and high brightness.

1515 Flip Chip

SMD 1212 Black