ROE
CREATIVE DISPLAY

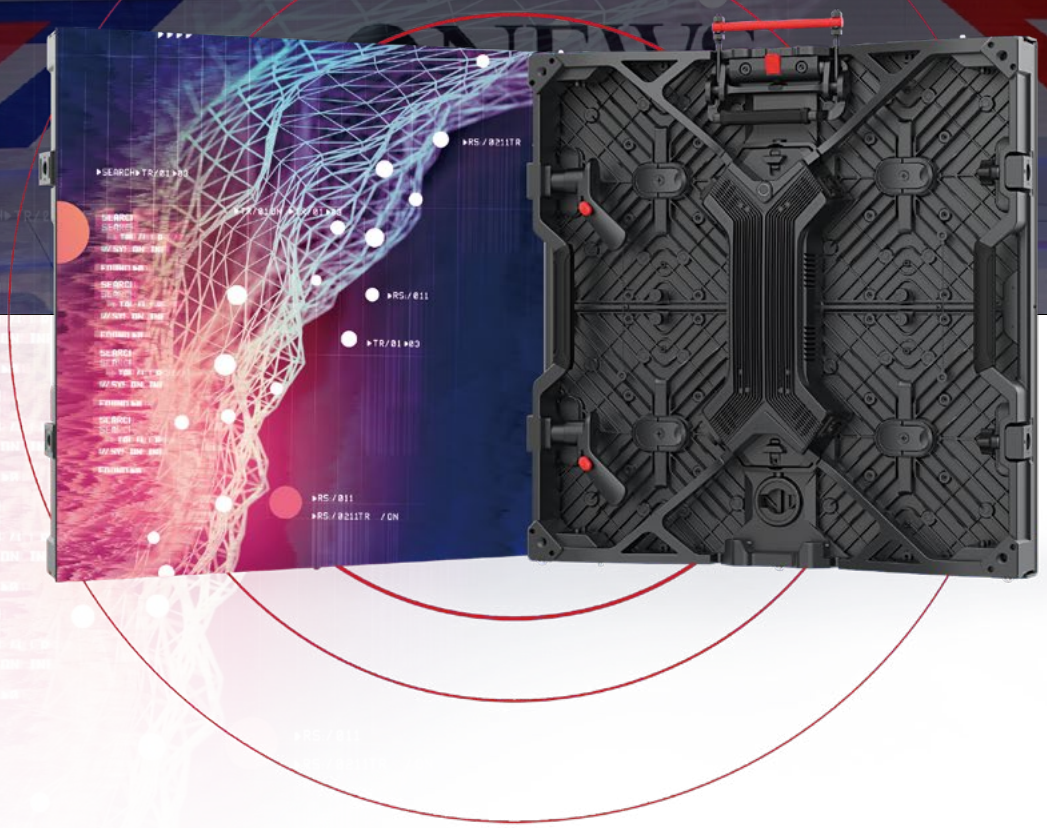
Ruby Series

Ideal for Virtual Production Solutions

INDOOR LED PANELS

Stable Perfect Performance

What's the critical point to the Virtual Production solution? Stunning in-camera visual and stable using experience. ROE Visual chose 4 in 1 common cathode Flip chip and 1313/1515 Flip Chip that offer a better LED solution with higher brightness and better color presentation. Less heat dissipation and higher refresh rate give a stable and impressive performance.



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.

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.

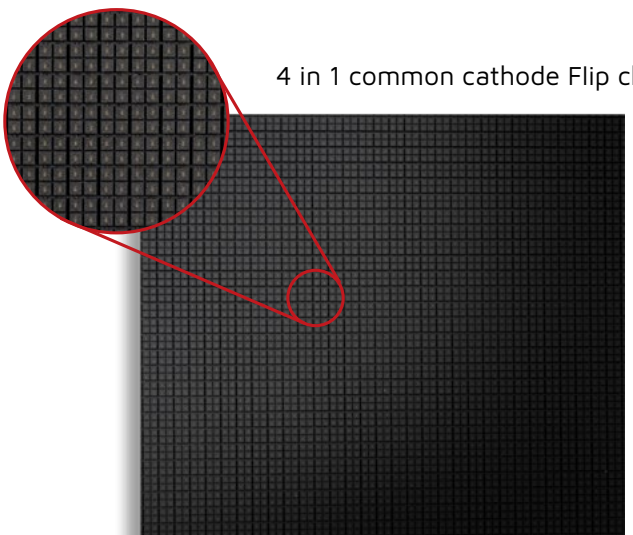
A Multitude of Shades of Black Coming Alive

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

Details that Matter

The well-chosen LEDs are perfect for the Virtual Production solutions, including film shooting and broadcasting. With its high contrast, high brightness and wide viewing angle, the Ruby panels give an excellent visual performance for both direct viewing and in-camera visuals.



4 in 1 common cathode Flip chip

Perfect Curves

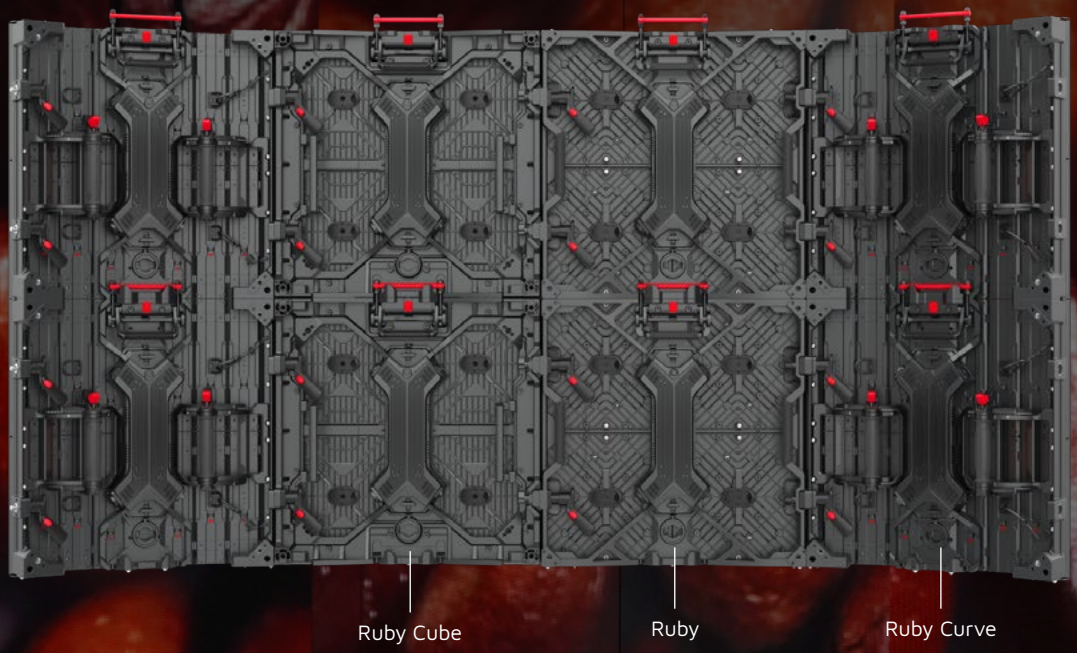
Are you up for limitless creativity? Where regular LED panels don't go beyond 5-15 degree curving, the Ruby-C panels offer significant curving options. You can create curves up to 30 degrees; The bending is divided into 30 small steps to guarantee a smooth and even look.

Fast and Convenient Curve Adjustment

The Ruby-C panels are well designed with multi-function handles. Operation can be finished just in one hand, simply and fast adjusted as well.

Compatible with Ruby Series

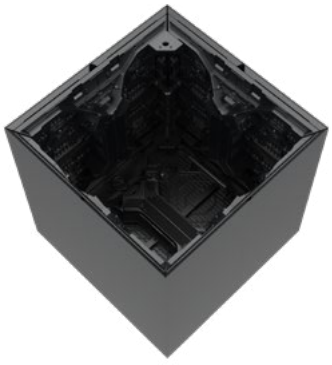
Ruby Curve, Cube, and Flat panels are fully compatible, offering seamless integration for any design. Effortlessly combine them to create the perfect LED display tailored to your vision.



Ruby Cube

The Ruby Cube elements allow for easy construction of 90 degree corners, 4-sided columns or even 5-sided cubeS. The separate building elements can be combined with the regular Ruby modules.

Right Angle



Cube

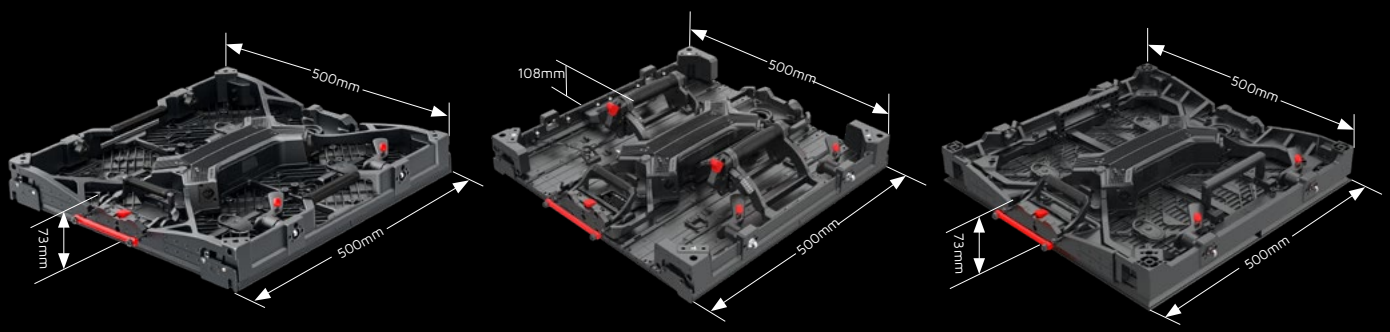
Specifications

Ruby	RB1.9F DS	RB2.6F	RB-C 1.9BV2	RB-C 2.6F	RB-B 2.6
Pixel Pitch	1.95mm	2.604mm	1.95mm	2.604mm	2.604mm
Max Brightness Calibrated	1500nits	2500nits	1500nits	2500nits	1500nits
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 108mm 19.7" x 19.7" x 4.25"	500mm x 500mm x 108mm 19.7" x 19.7" x 4.25"	500mm x 500mm x 73mm 19.7" x 19.7" x 2.87"
Panel Resolution (H x V)	256 x 256	192 x 192	256 x 256	192 x 192	192 x 192
Panel Weight	8.3kg; 18.30lbs	8.1kg; 17.86lbs	8.4kg; 18.52lbs	8.32kg; 18.34lbs	9.08kg; 20.02lbs (Estimated)
Panel Power Consumption Max / Average	140W(common anode) / 70W	210W(common anode) / 105W	160W(common anode) / 80W	210W(common anode) / 105W	160W(common anode) / 80W
Panel BTU Max / Average	475 / 220	715 / 330	545 / 250	715 / 330	545 / 250
Transparency	Solid	Solid	Solid	Solid	Solid
Serviceability	Front / Rear	Front / Rear	Rear	Rear	Front / Rear
Curving (Concave & Convex) *1	Concave 5°~Convex 5°	Concave 5°~Convex 5°	Concave20°~Convex 20°	Concave 30°~Convex 30°	Concave5°~Convex 5°; 90°
Max. Hanging (panels) *2	20	20	20	20	16
Max. Stacking (panels) *3	12	12	12	12	12
LED Configuration	4 in 1 common anode Flip chip	SMD 1313 Flip chip	SMD1212 Black	SMD 1313 Flip chip	SMD 1515 Black
Viewing Angle Horizontal	140°	140°	140°	140°	140°
Viewing Angle Vertical	140°	140°	140°	140°	140°
Scan Ratio	1/8	1/8	1/8	1/8	1/12
Refresh Rate	Up to 10,500Hz	7680Hz	7680Hz	7680Hz	7680Hz
Gray Scale	19bit	16bit	16bit	16bit	16bit
Frame Material	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
Processing Platform	Deepsky	Megapixel / Brompton	Megapixel / Brompton	Megapixel / Brompton	Megapixel / Brompton / 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	-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
IP Rating	IP40	IP40	IP40	IP40	IP40
Certifications	CE, CB, ETL, FCC, UKCA, WEEE	CE, CB, ETL, FCC, UKCA, WEEE	CE, CB, ETL, FCC, UKCA, WEEE	CE, CB, ETL, FCC, UKCA, WEEE	CE, CB, ETL, FCC, UKCA, WEEE
3D Ready	Yes	Yes	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. The 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



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