Perfect on-camera performance

Black Pearl BP2 is specially developed for use in the film industry and xR applications. Featuring in large-scale film projects, such as The Mandalorian and Westworld, its features have been adapted based on extensive testing and industry partners' feedback.

Creating the right canvas for virtual production is not just building any LED screen. It's where the LED panel, processing, and camera work together, complement and strengthen each other that real stunning results are achieved. ROE Visual Black Pearl has proven to be the right product for the job.

The BP2V2 offers the trusted performance of the BP2 in an updated version with high-speed components. It results in an identical perfect on-camera performance as the BP2, adding quicker and easier camera set up and handling.
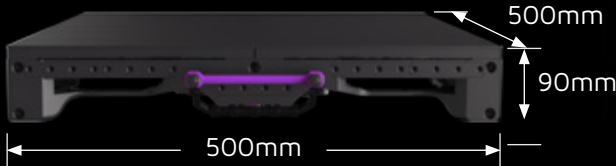
RED DOT
AWARD

Specifications

Module	BP2V2
Pixel Pitch	2.84 mm
Max Brightness Calibrated	1,500nits
Panel Dimension	500 x 500 x 90mm / 19.69" x 19.69" x 3.54"
Panel Resolution (H x V)	176 x 176
Weight Per Panel	9.35kg; 20.61lbs
Power Consumption Max/Average	185W / 92W
BTU Max/Average	631 / 290
Transparency	Solid
Serviceability	Front
Max. Hanging (panels)*1	20
Max. Stacking (panels)*2	12
Curving*3	Concave 0°-10°
LED Configuration	SMD 1515 Black
Viewing Angle Vertical	140°
Viewing Angle Horizontal	140°
Multiplexing	8
Refresh Rate	7680Hz
Gray Scale	16bit
Frame Material	Magnesium Alloy
Operational Temp / Humidity	-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
IP Rating	Indoor
Certifications	CE, ETL, FCC

*Note: The Specifications are for reference, actual values may vary.
1. 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.
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, safety factor is 8. No climbing is allowed.
3. Convex curving ability only applies to custom tiles.

Dimensions

500mm
90mm
500mm

YOUR STAGE
OUR PASSION

www.roevisual.com

Black Pearl

LED panels for film and studio applications

INDOOR LED PANELS

ROE
CREATIVE DISPLAY

Premier choice LED for virtual production.

ROE Visual LED panels prove to be the ideal solution and canvas to portray to sets and backgrounds created in virtual reality.

Durable Magnesium frame

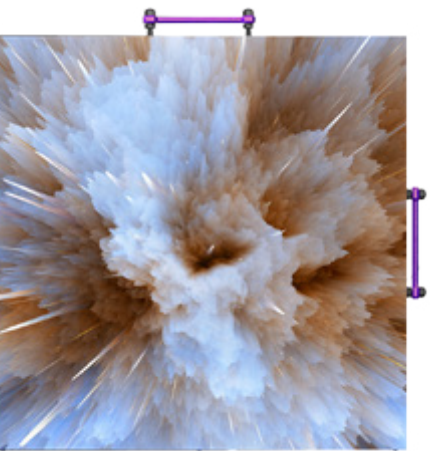**Magnet assisted assembly**

LED protection through special edge design

Intelligent module stores calibration

Highly efficient power supply

Indoor use

BP2V2 - 2.84mm

Easy installation

Due to its stacking, hanging and curved installation options, the Black Pearl LED panels offer flexible installation solutions. Through concave or convex curving a larger field of view and a more immersive experience can be created.

Stacking

Hanging

Concave 0°~10°
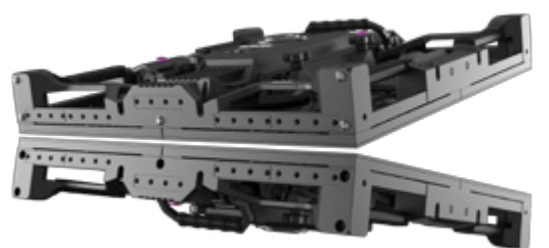
Superb visuals and perfect on-camera behaviour

True-to-content effects are created with high refresh rates, outstanding color processing and great contrast ratios.
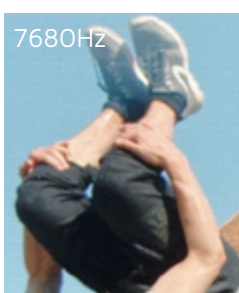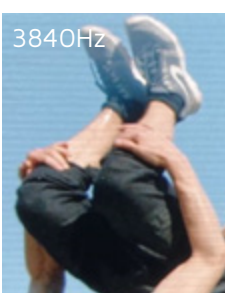
ROE Visual LED screens work with high-end components and state of the art driver IC's; making all the difference for the on-camera performance.

BP2V2 minimizes the scanning artifacts by having a high refresh rate in combination with a low scan rate.

High refresh rates help to avoid visible scan-lines. BP2V2 has a refresh rate of 7680 Hz.
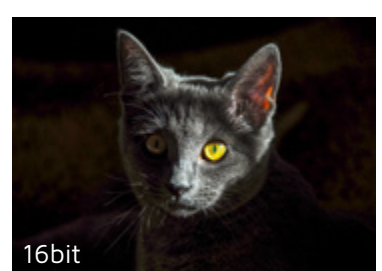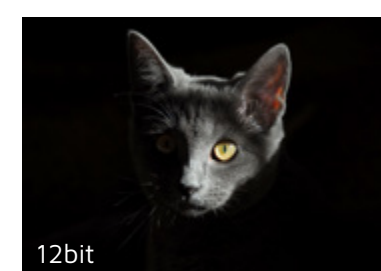
3840Hz

7680Hz

Fast and Easy Set-up

The integrated magnet-assisted assembly, LED protection and smart lock system allow for automatic positioning and efficient installation. These features guarantee optimum panel protection during build and break.

With a bit-depth of 16-bit, color banding and inaccurate color representation are a problem of the past.

12bit

16bit