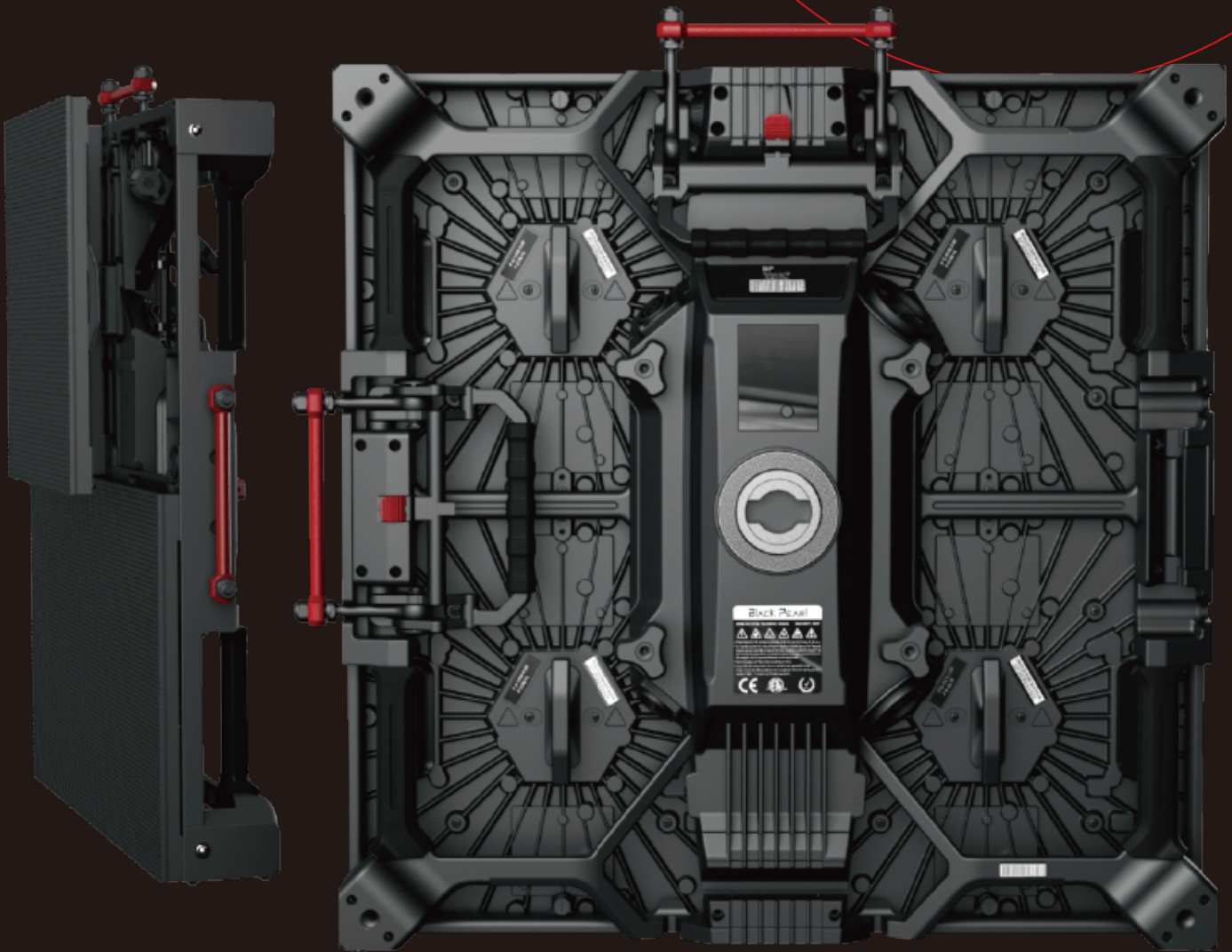


ROE

CREATIVE DISPLAY

Black Onyx

AWARDED, CUTTING-EDGE LED
DESIGN AND TECHNOLOGY



The Black Onyx family by ROE Visual offers Awarded, cutting-edge LED design and technology in a LED panel that has become industry standard.



Introduction

Black Onyx is a high-performance, broadcast grade, HD-LED display for indoor applications. Winner of the prestigious IDEA Gold Award and the Red Dot Award, Black Onyx offers user-friendly and innovative design that supports fast and easy hanging and stacking options set-up options. The lightweight magnesium-based panels are durable and of proven high-quality. Panel features an integrated LCD screen for easy read-out of the panel status. Featuring HD pixel pitch and outstanding color processing, Black Onyx is perfectly suited for the professional AV market.



Fast and Easy Set-up

The integrated magnet-assisted assembly and smart-lock system allows for easy positioning and efficient installation. The edge-conscious tile design guarantees optimum panel protection.

Superb Visuals

True-to-content effects are created with high refresh rates, outstanding color processing and great contrast ratios.



Intelligent Module and Easy Maintenance

Each individual module stores its calibration and operating parameters. Equipped with identical push-out modules, maintenance is a breeze.



High Power Supply Efficiency

Built-in heat dissipation and a power supply efficiency of 90% guarantee minimum waste heat.



Flexible Installation Options

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



Specifications

Module	BO2	BO3
Pixel Pitch	2.84 mm	3.47mm
Max Brightness Calibrated	1,800nits	1,500nits
Panel Dimension	500 x 500 x 90mm 19.69" x 19.69" x 3.54"	500 x 500 x 90mm 19.69" x 19.69" x 3.54"
Panel Resolution (H x V)	176 x 176	144 x 144
Weight Per Panel	9.35 kg; 20.61 lbs	9.35 kg; 20.61 lbs
Power Consumption Max/Average	160W / 80W	170W / 85W
BTU Max/Average	546 / 251	580 / 267
Transparency	Solid	Solid
Serviceability	Front	Front
Max. Hanging (panels) ^{*1}	20	20
Max. Stacking (panels) ^{*2}	12	12
Curving (Concave & Convex) ^{*3}	Concave 10°-Convex 10°	Concave 10°-Convex 10°
LED Configuration	SMD 1515 Black	SMD 2020 Black
Viewing Angle Vertical	140°	140°
Viewing Angle Horizontal	140°	140°
Multiplexing	11	12
Refresh Rate	1920Hz	1920Hz
Gray Scale	16bit	16bit
Frame Material	Magnesium Alloy	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
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
IP Rating	Indoor	Indoor
Certifications	CE, ETL, FCC	CE, ETL, FCC

*Note:

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 5. 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 5. No climbing is allowed.
3. Convex curving ability only applies to custom tiles.

Dimensions

