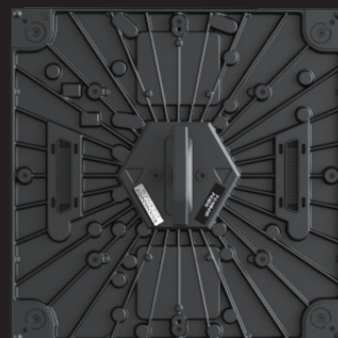


ROE

CREATIVE DISPLAY

Black Pearl

AWARDED, CUTTING-EDGE LED
DESIGN AND TECHNOLOGY

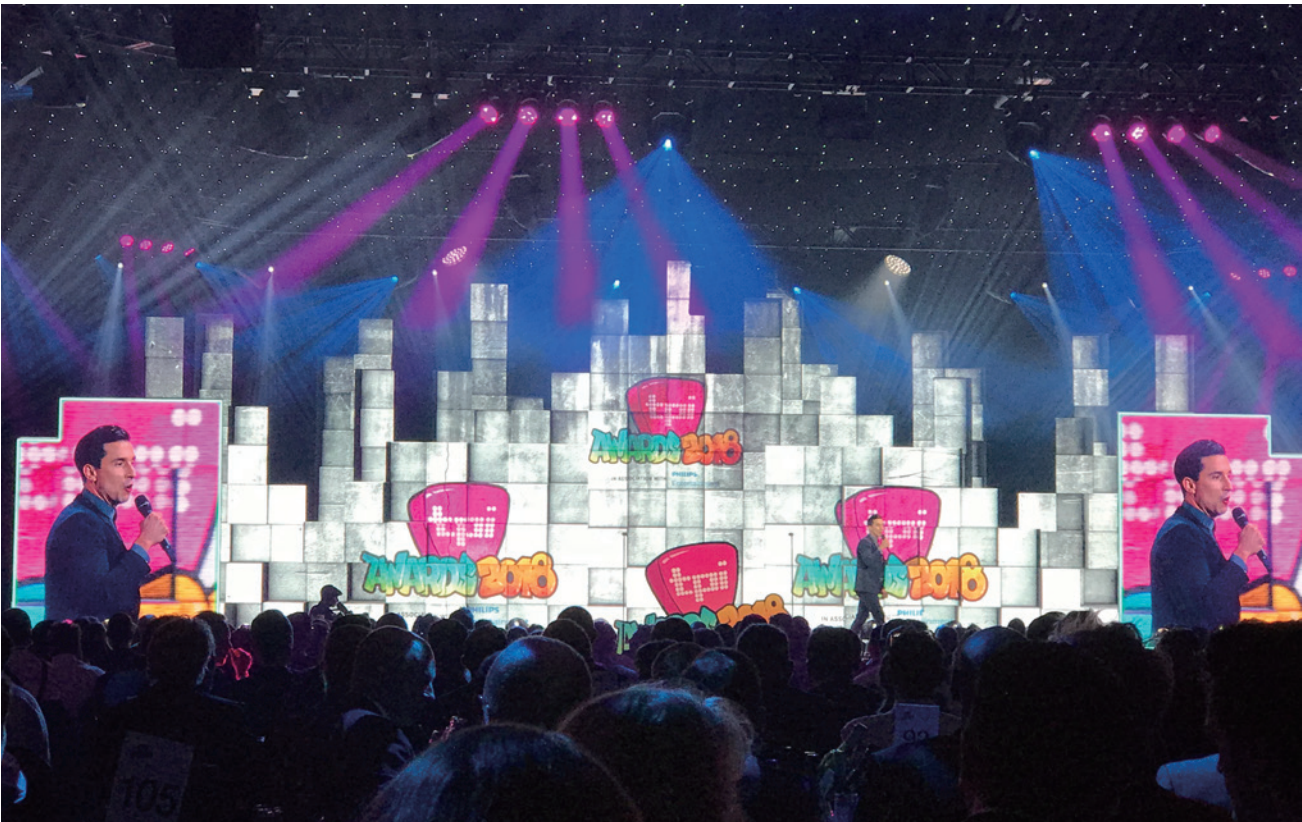


The Black Pearl family by ROE Visual offers Awarded, cutting-edge LED design and technology in a LED panel that has become industry standard.



Introduction

Black Pearl is a high-performance, broadcast-grade, HD-LED display for indoor applications. It has won many prestigious design awards, including the IDEA Gold Award and the Red Dot Award. Innovative user-friendly design supports fast and easy set-up for both hanging and stacking options. Highly durable lightweight magnesium-based panels house LEDs with high-def pixel pitch and outstanding color processing, making Black Pearl perfectly suited for the professional AV market.

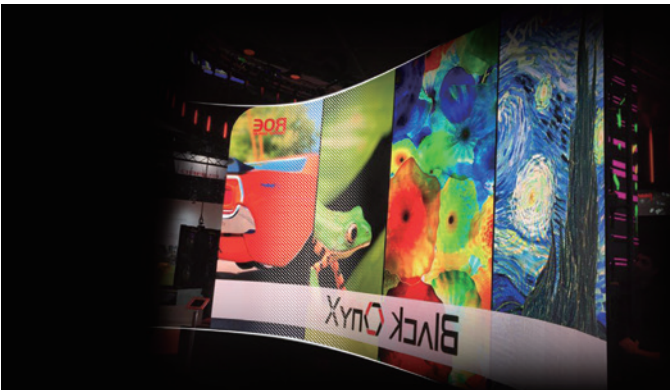


Intelligent Module and Easy Maintenance

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

Superb Visuals

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



High Power Supply Efficiency

Due to its stacking, hanging and curved installation options, the Black Pearl 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.



Flexible Installation Options

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Fast and Easy Set-up

The integrated magnet-assisted assembly, LED protection and a smart lock system allow for automatic positioning and efficient installation, while the edge-conscious tile design allows for optimum panel protection.



Specifications

Tile	BP2	BP3	BP5
Pixel Pitch	2.84 mm	3.91 mm	5.21mm
Pixel Density	123,904 px/m ²	65,536 px/m ²	36,864 px/m ²
Pixels (H x V)	176 x 176 px/tile	128 x 128 px/tile	96 x 96 px/tile
LED Configuration	Black SMD 3-in-1	Black SMD 3-in-1	Black SMD 3-in-1
Max. Brightness (Calibrated)	1,500 nits (NationStar 1515)	1,500 nits (NationStar 2020)	1,500 nits (NationStar 2020)
Gray Scale (Input to Output)	16 bit	16 bit	16 bit
Contrast Ratio	6000:1	5000:1	5000:1
Refresh Rate	1920 Hz	3000 Hz	3840 Hz
Scan	1/11	1/16	1/6
3D Ready	Yes	Yes	Yes
Hor. Viewing Angle	140°	140°	140°
Vert. Viewing Angle	140°	140°	140°
Transparency	Solid	Solid	Solid
Tile Size(W x H x D)	500 x 500 x 90 mm/ 19.69" x 19.69" x 3.54"	500 x 500 x 90 mm/ 19.69" x 19.69" x 3.54"	500 x 500 x 90 mm/ 19.69" x 19.69" x 3.54"
Frame Material	Magnesium Alloy	Magnesium Alloy	Magnesium Alloy
Serviceability	Front/Rear	Rear	Rear
Weight / tile	9.35 kg; 20.61 lbs	8.7 kg; 19.18 lbs	8.7 kg; 19.18 lbs
Max. Hanging	20 tiles	20 tiles	20 tiles
Max. Stacking	12 tiles	12 tiles	12 tiles
Curve(Concave & Convex)	Max. Concave 10° Max. Convex 10°	Max. Concave 10° Max. Convex 10°	Max. Concave 10° Max. Convex 10°
Max. Power	170 W/tile	160 W/tile	160 W/tile
Processor	Nova	Evision	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)	Indoor Only	Indoor Only	Indoor Only
Certifications	CE ETL FC		
Lifetime	≥ 50,000 hrs	≥ 50,000 hrs	≥ 50,000 hrs

* Notes:
The max. hanging supports up to 20 tiles when the safety factor is 5.
Convex ability only applies to custom tile, not the standard one.

Dimensions

