ROE
CREATIVE DISPLAY

Black Pearl

INTERNATIONAL DESIGN EXCELLENCE AWARDS
IDEA GOLD AWARD 2015
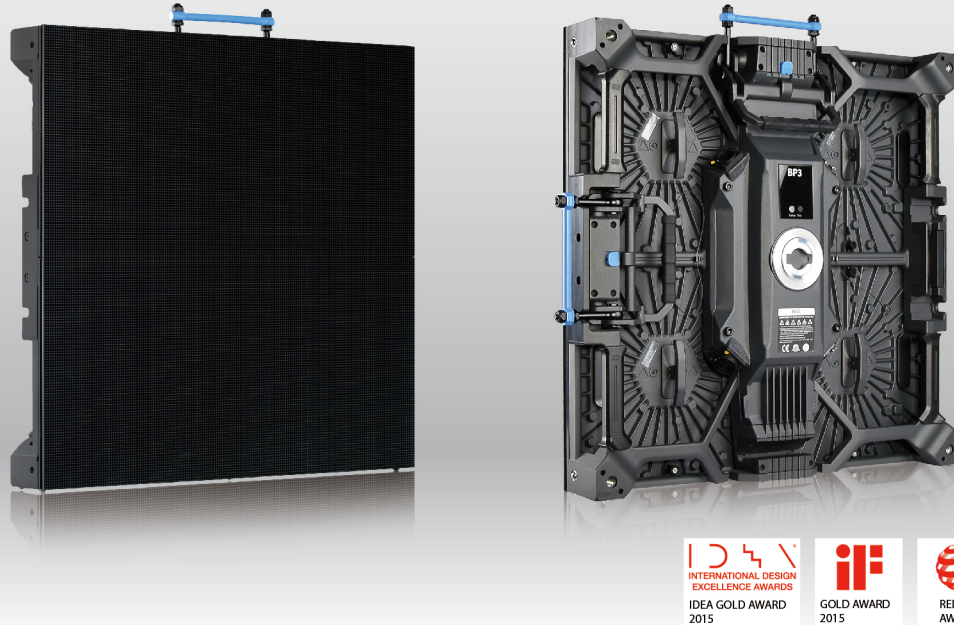
iF GOLD AWARD 2015

RED DOT AWARD

GOOD DESIGN AWARD 2014

■ Features

Durable and Strong – Tile frames made of magnesium alloy alongside our ROE design process ensure longevity and quality.

Fast and Simple Setup – Magnets for automatic positioning and the smart lock system enable efficient installation.

Intelligent Modules – Each module within a panel stores calibration and operating parameters separately.

LED Protection – Edge-care tile design allows for safe packing and shipping.

Superb Visuals – True to content effects are displayed with high refresh rates, great color processing, and outstanding contrast ratios.

Highly Efficient – With power supply efficiency of 90% and a built-in heat sink, waste heat is kept to a minimum.

Easy Maintenance – With a push-out module and identical design to the Black OnyX, maintenance is a breeze.

■ Introduction

The Black Pearl is the cost-efficient version of the Black OnyX featuring the same award-winning tile design. These include the IF Gold Award, Reddot Award, G-Mark Design Award, and the Design for Asia Award. The differences amount to the removal of some broadcast and enthusiast grade features, such as native genlock support, to make the panel more accessible to broader markets.

The Black Pearl is powered by ROE Visual's control system – Evision. One controller supports resolutions of up to 2560x1024, with the ability to be connected to 15 other controllers via USB. The software is designed in-house by ROE Visual to be perfect for use by event productions, stage companies, and more.

Due to the design offered by the Black OnyX, Black Pearl benefits from an equally efficient setup in both hanging and stacking configurations. Should the broadcast and monitoring functions of the Black OnyX not be required, the Black Pearl is ready to be used in large events, concerts, and exhibitions. It features the same HD pixel pitch, alongside its own fantastic color processing, to provide for incredible content display.

■ Specifications

Black Pearl	BP2	BP3
Pixel Pitch	2.84 mm	3.91mm
Pixel / Tile	176×176	128×128
Pixel Density	123904/sqm	65536/sqm
LED Configuration	Black SMD 3-in-1	Black SMD 3-in-1
Viewing Angle(Hor/Vert)	140°/140°	140°/140°
Max. Brightness(After calibration)	1500 nits(NationStar 1515)	1500 nits(NationStar 2020)
Refresh Rate	1920Hz	3000Hz
Contrast	5000:1	5000:1
Gray Scale	14bit	14bit
Scan	1/11	1/16
Tile Dimension(W×H×D)	500mm×500mm×90mm 19.7"×19.7"×3.5"	500mm×500mm×90mm 19.7"×19.7"×3.5"
Tile Material	Magnesium Alloy	Magnesium Alloy
Tile Weight	9.4kg	8.7kg
Max. Stacking	12 tiles	12 tiles
Max. Hanging	20 tiles	20 tiles
Max. Power Consumption	640W/sqm	640W/sqm
Lifetime	≥50000h	≥50000h
Curve(optional)	Concave (Max. 10°) Convex (Max. 10°)	Concave (Max. 10°) Convex (Max. 10°)
Controller	Evision	Evision
Operating Temp/Humidity	-20°C~45°C, 10~90%RH	-20°C~45°C, 10~90%RH
Storage Temp/Humidity	-40°C~60°C, 10~90%RH	-40°C~60°C, 10~90%RH

■ Dimensions