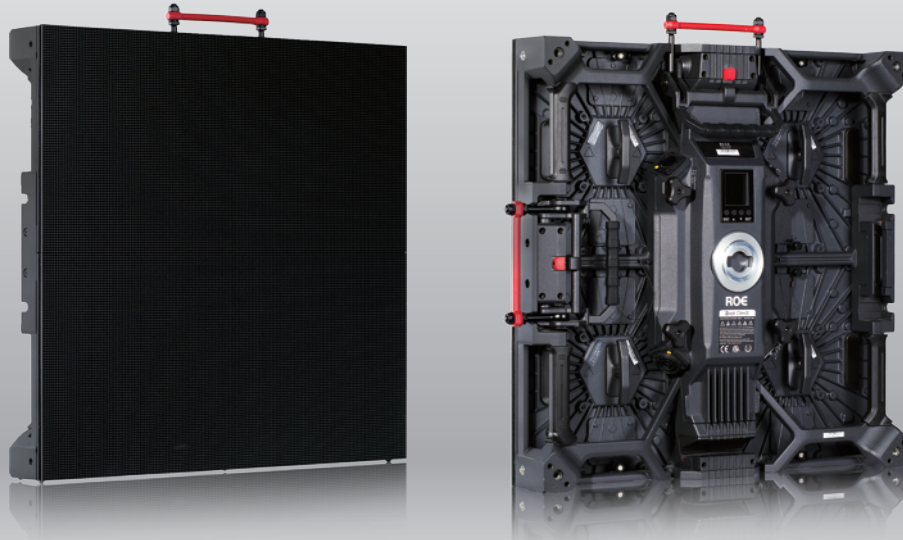


## Black Onyx



### ■ Features

**Lightweight & Strong** tile made by magnesium alloy and revolutionary design.

**Fast and Simple Setup** by magnet system and smart lock.

**Intelligent Module** stores calibrating and operating parameters separately.

**High Protection** of Leds by edge-care tile design and packing design.

**Superb Visual** effect with high refresh rate, outstanding color processing and great contrast ratio.

**High Efficient** power supply(90%) and heat sink inside.

**Easy Maintenance** with push-out module and all the modules are the same design.

### ■ Introduction

The Black Onyx is ROE Visual's new high-performance indoor HD LED display incorporating professional industrial design. Since Black Onyx emerges, it has successively won many famous design awards including IDEA Gold Award, IF Gold Award, Reddot Award, G-Mark Design Award, Design For Asia Award.

The Black Onyx is powered by Tessera LED processing - a cutting-edge system from Brompton Technology. It makes use of Tessera management software, which provides a user-friendly yet powerful interface for controlling all aspects of the system. Along with a built-in scaler and de-interlacer, users can benefit from real-time adjustment of position, rotation, color, brightness of panels and high-spec video performance with 3G-SDI input.

The innovative and friendly design supports a fast and simple setup for both hanging and stacking setups well suited to the needs of large events, concerts and exhibitions. Featuring a HD pixel pitch and outstanding color processing, the product also promises high-end performance in TV studios and lecture halls.

## ■ Specifications

Black OnyX	B02	B03
Pixel Pitch	2.84mm	3.47mm
Pixel Matrix	176×176dot	144×144dot
Pixel Density	123904/sqm	82944/sqm
LED Configuration	Black SMD 3-in-1	Black SMD 3-in-1
Viewing Angle(Hor/Vert)	140°/140°	140°/140°
Brightness(After calibration)	1800 nits(MultiColor 1515)	1500 nits(NationStar 2020)
Refresh Rate	1920Hz	1920Hz
Contrast	5000:1	5000:1
Gray Scale	16bit	16bit
Scan	1/11	1/12
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/20.7lbs	9.4kg/20.7lbs
Max. Stacking	12 tiles	12 tiles
Max. Hanging	20 tiles	20 tiles
Power Consumption(Max./average)	640/290W/sqm	640/290W/sqm
Lifetime	≥50000h	≥50000h
Curve(optional)	Concave(0~10°)	Concave(0~10°)
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

