



## Sapphire platform. LED display re-defined.

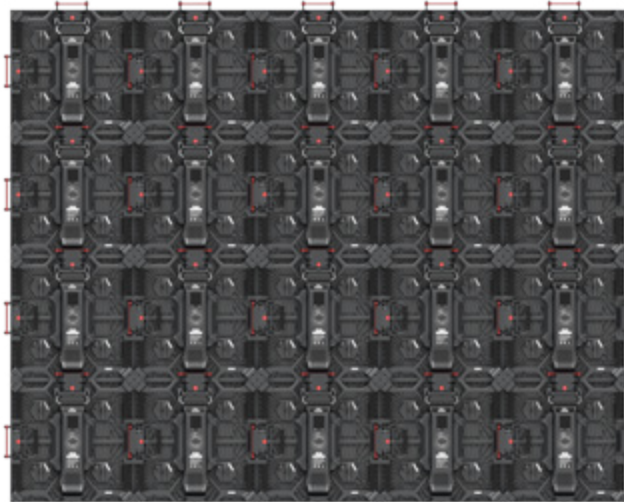
The ROE Visual Sapphire is the first Narrow Pixel Pitch (NPP) LED panel platform that combines outstanding visual brilliance with a clever assembly system.

Designed to meet high performance standards while using a small pixel pitch, Sapphire’s unique system of intersecting frames allows for maximum creativity and ease-of-assembly.

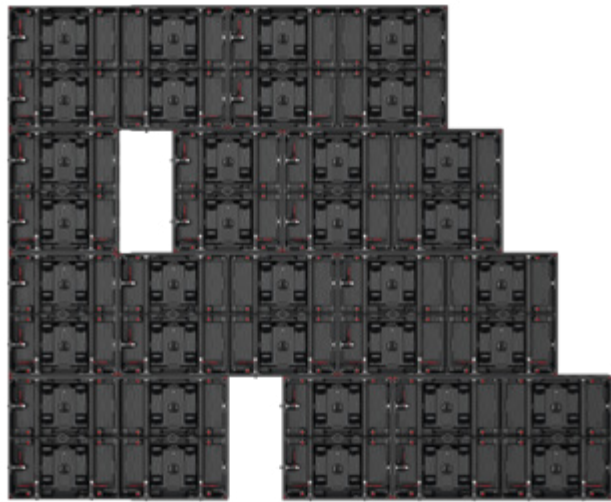
Seamless assembly through system of intersecting layers, allowing for various creative solutions. Creating a single solid assembly that uses less hardware and applies less force to the individual panels. Keeping to an aspect ratio of 16:9 in all configurations.

The unique concept of separating the frames from the actual LED panels saves valuable production time and offer cost-effective renting. The Sapphire platform can be used in a wide range of indoor applications and hence accommodates both rental and fixed uses.

### Conventional LED wall



### ROE Sapphire Platform



## Specifications

Module	SP1.5
Pixel Pitch	1,54mm
Max Brightness Calibrated	800nit
Panel Dimension	494.4 x 278.1 x 86 mm / 19.46" x 10.95" x 3.4"
Panel Resolution (H x V)	320 x 180
Weight Per Panel	4.5kg (9.9lbs)   33.0kg / m² (6.7lbs / ft²)
Power Consumption Max/Average	100W / 50W
BTU Max/Average	341 / 157
Serviceability	Front
Max. Hanging (panels)	32
Max. Stacking (panels)*1	24
LED Configuration	Mini LED Black
Viewing Angle Vertical	140°
Viewing Angle Horizontal	140°
Multiplexing	20
Refresh Rate	3840Hz
Gray Scale	16bit
Frame Material	Magnesium Alloy
Operational Temp / Humidity	-20°C - 45°C, 10-90%RH / -4°F - 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 Class A / TÜV
Frame	
Frame 2 x 2 Dimension (W x H x D)	988.8 x 556.2 x 80.7 mm / 38.93" x 21.90" x 3.18"
Frame 2 x 2 Weight	11.2 kg (24.6 lbs) / frame / 20.4 kg/m² (4.2 lbs / ft²)
Frame 1 x 2 Dimension (W x H x D)	494.4 x 556.2 x 80.7 mm / 19.46" x 21.90" x 3.18"
Frame 1 x 2 Weight	6.4 kg (14.1 lbs) / frame / 23.3 kg / m² (4.8 lbs / ft²)
Combined Panels + Frame	
Weight	52.6 kg / m² (10.7 lbs / ft²)

\*Notes: The Specifications are for reference, actual values may vary.  
1. 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. No climbing is allowed.

## Dimensions



[www.roevisual.com](http://www.roevisual.com)

ROE Visual Co., Ltd. | ROE Visual US, Inc. | ROE Visual Europe BV  
roe@roevisual.com | roe@roevisual.com | roe@roevisual.com

ROE  
CREATIVE DISPLAY



## Sapphire

Sapphire Platform Led Display Re-defined

INDOOR LED PANELS



# SAPPHIRE LED PANEL. HIGHLY CONFIGURABLE, LASER SHARP (PIXEL PITCH 1.5MM)



## Expanded creative design

Sapphire's distinctive installation concept, using intersecting frames, supports a wide range of design and installation options, like rectangular, trapezium or other creative shapes, without the need for additional hardware.



## High resolution platform

Sapphire is a high-resolution platform that accommodates multiple resolution types within the same hardware frames. The current Sapphire panel has a resolution of 1.5mm with pixel pitch variations of 2.5mm. Future Sapphire iterations will focus on pitches between 0.9 and 2.0mm.

## Unique concept

Use of separate frames and panels allows for more efficient use of production time and cost-effective allocation of panels. Frames can be built first and panels added at a later stage, guarding valuable electronics during hardware set-up.



## Easy panel access

Sapphire's integrated ejection motor allows easy panel removal from frames in any position. The modular LED panels are relatively small and lightweight making them easy to handle and store.



## Intersecting frames

Sapphire offers seamless assembly through its system of intersecting layers, an improvement over traditional rows and columns, removing vertical break lines creating a single solid assembly that uses less hardware and applies less force to the individual panels.

Saves production time due to separate frames and panels



Indoor use



Narrow pixel pitch offers outstanding visual brilliance



Pixel pitch SP1.5 1.55mm



Intersecting frames guarantee safe building

