Universal Frames Enable Creative Design

Take your creativity where it leads you. The Opal LED modules and panel frames are developed to offer easy installation. The universal Opal modules and panel frames are designed to accommodate either a flat or curved, zero-bezel LED canvas. With solutions for wall-mounting, stacking, or even hanging, the Opal LED modules can be placed in any environment to create eye-catching and immersive effects.
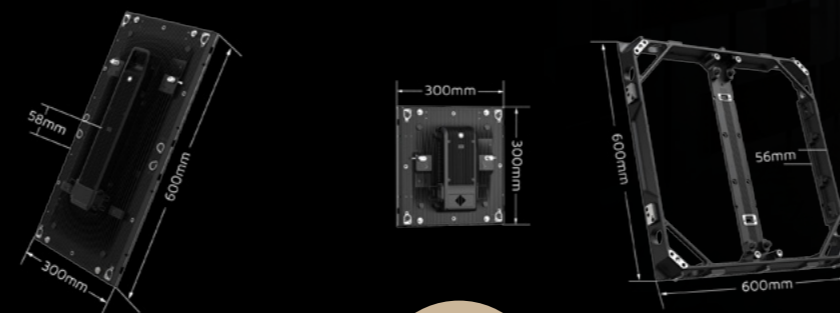
Flawless Display

Due to high-precision engineering and manufacturing, the mounting frame has high tolerance. XYZ axes alignment is easy and can be done without removing the LED module. This will result in perfectly aligned, seamless, and flat LED walls.

Specifications

Opal	Opal 1.2i		
Pixel Pitch	1.25mm		
Max Brightness Calibrated	600nits		
Panel Dimensions	300mm x 600mm x 58mm 11.8" x 23.6" x 2.3"	300mm x 300mm x 58mm 11.8" x 11.8" x 2.3"	
Panel Resolution (H x V)	240 x 480	240 x 240	
Panel Weight	5.17kg; 11.4lbs	2.36kg; 5.2lbs	
Frame Dimensions	600mm x 600mm x 56mm 23.6" x 23.6" x 2.2"	300mm x 600mm x 56mm 11.8" x 23.6" x 2.2"	300mm x 300mm x 56mm 11.8" x 11.8" x 2.2"
Frame Weight	3.72kg; 8.2lbs	2.5kg; 5.5lbs	1.46kg; 3.2lbs
Power Consumption Max / Average	140W / 75W	90W / 45W	
BTU Max / Average	478 / 220	307 / 141	
Transparency	Solid		
Serviceability	Front / Rear		
Curving (Concave & Convex)	Concave 5°-Convex 5°		
LED Configuration	4 in 1 LED common cathode		
Viewing Angle Horizontal	160°		
Viewing Angle Vertical	140°		
Refresh Rate	3840Hz		
Gray Scale	14bit		
Frame Material	Die-casting Aluminum		
Installation	Hanging / Stacking / Mounting		
Processing Platform	MVR / Brompton		
Operational Temp / Humidity	-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	
IP Rating	Indoor		
Certifications	CE, FCC, ETL, PSE, RoHS, UL		
EMC	Class B		

Notes: The specifications are for reference, actual values may vary.

Dimensions

YOUR SPACE
OUR PASSION

ROE Display Solutions

Opal Indoor

Versatile LED Platform

INDOOR FIXED INSTALL

Features (icon list)

- HDR technology — **HDR**
- Universal frames
- 4-in-1 LED common cathode — **4x**
- Easy maintenance
- Easy and efficient installation
- Curved configuration possible
- Fine pixel pitch 1.2
- Hanging and Stacking

\\ **What inspires you?
LED panels feed the desire to create,
facilitating imaginative and
extraordinary designs.** \\

Don't Compromise on Your Visuals

The Opal LED panel platform stands out with a staggering visual performance. Using black LEDs, the Opal LED canvas offers a high contrast ratio and a wide color gamut, delivering a high-definition viewing experience with unmatched color accuracy.

Next-gen Technology

The Opal LED platform is designed with our next generation in mind. Innovative use of new technologies, like common cathode, translates into LED displays that use up to 25% less energy and generate less heat. Using common cathode technology will results in brighter and color consistent LEDs, making the overall LED performance very stable in all conditions.

Create without Restrictions

Enabling out of the ordinary designs without customizing your LED panel time and again; that's what inspired ROE Visual to create Opal.

Opal: The Versatile LED Platform

Opal is a versatile LED platform conceptualized to aid designers in creating out-of-the-box designs. Its adaptable design, based on 300x300 mm square LED modules, translates into various frame dimensions which can be combined like Lego blocks, creating room for artistic, immersive displays that are out of the ordinary. Opal uses just one platform that accommodates both in- and outdoor applications.