# ROE
## CREATIVE DISPLAY

# Obsidian 2.6

The Revolutionary LED Solution for Virtual Production

**INDOOR LED PANELS**

# Create Access Windows
## at Any Given Point

The unique structure design of the Obsidian LED panel differs from all conventional LED panels.
The clever construction and frame make it possible to create access points or larger windows in
your LED volume, enabling room for lighting fixtures or any other equipment or props.
The access point can be created up to 2m wide.

# Safe Operating Platform

The Obsidian LED structure can be extended with an access platform to create easy and safe access for technicians operating in the LED volume. This modular structure allows easy rear access for quick maintenance while optimizing staff safety.
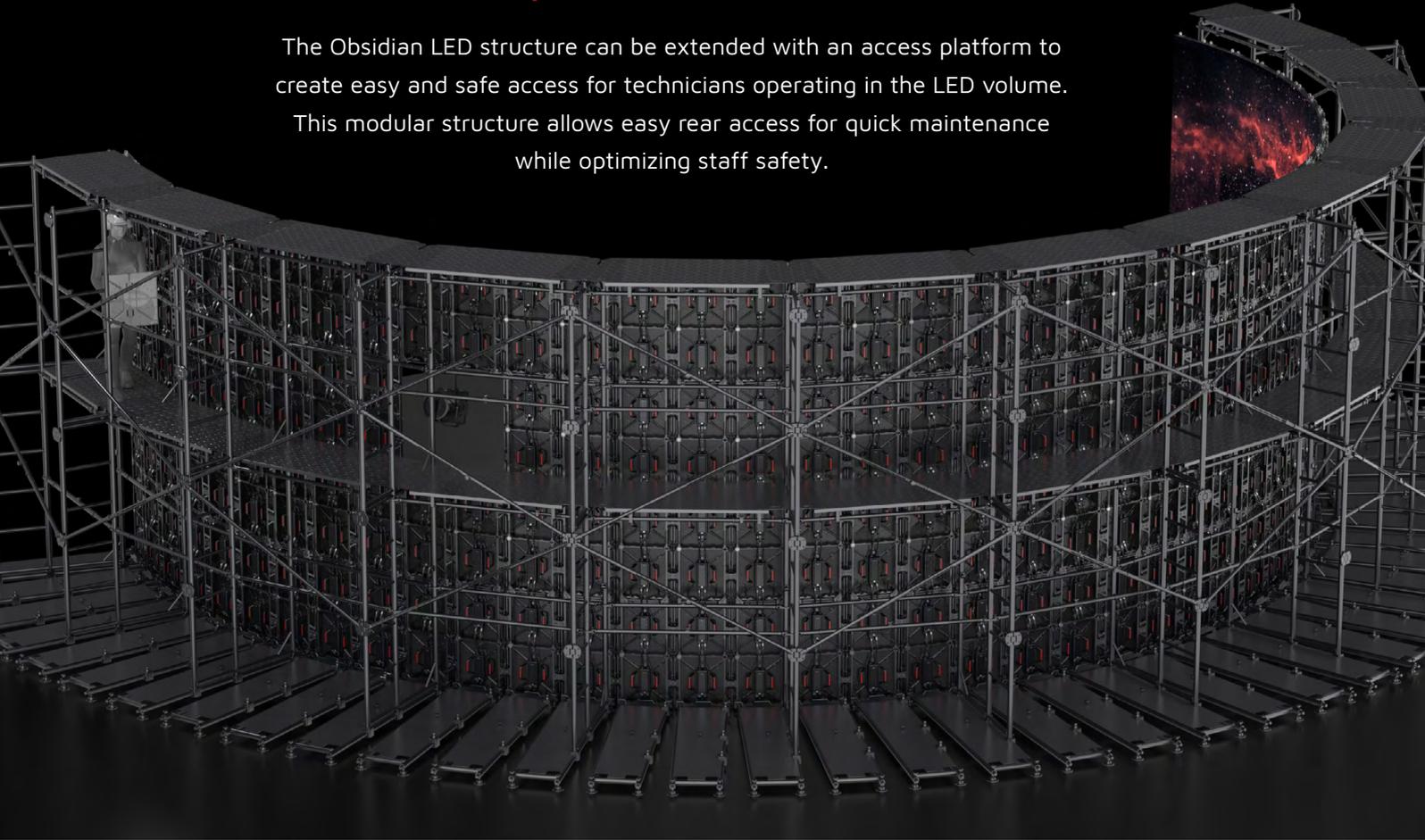
## Color Consistency

Equipped with integrated temperature sensors, advanced preset functionality, and automatic color adjustment, Obsidian offers unrivaled color consistency and true-to-eye color accuracy.
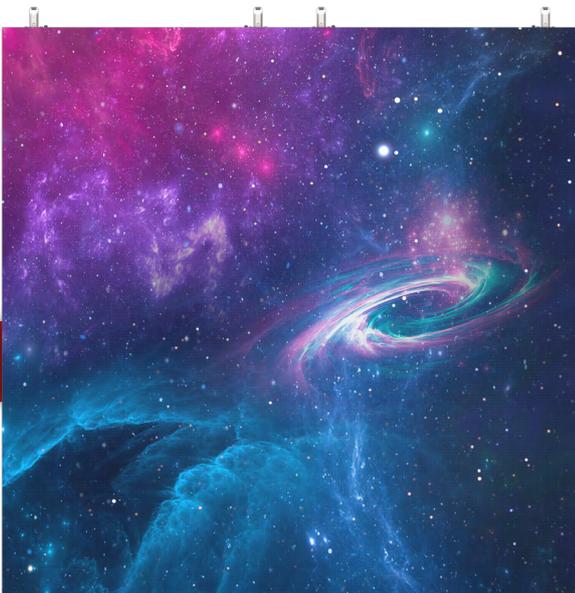
## Energy Saving and Low Carbon Footprint

Reducing power consumption by 50% compared to other LED displays, Obsidian not only helps to lower your carbon footprint, but the LED panel also contributes to a better studio environment, generating less heat.

# Extraordinary ICVFX Performance

Boasting great contrast, a wide color gamut, and rich grayscales, Obsidian's flip-chip LEDs guarantee perfect in-camera performance.

## Patented Deep Black Mask

Obsidian uses a patented solution to create a deep black mask that reduces light reflection dramatically. This results in an unmatched contrast ratio.
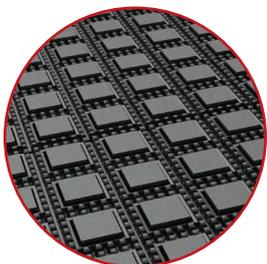
Flip chip
1515 black

## High Contrast

Obsidian uses a patented deep black mask, boasting an extraordinarily high contrast ratio, reducing light reflection dramatically.
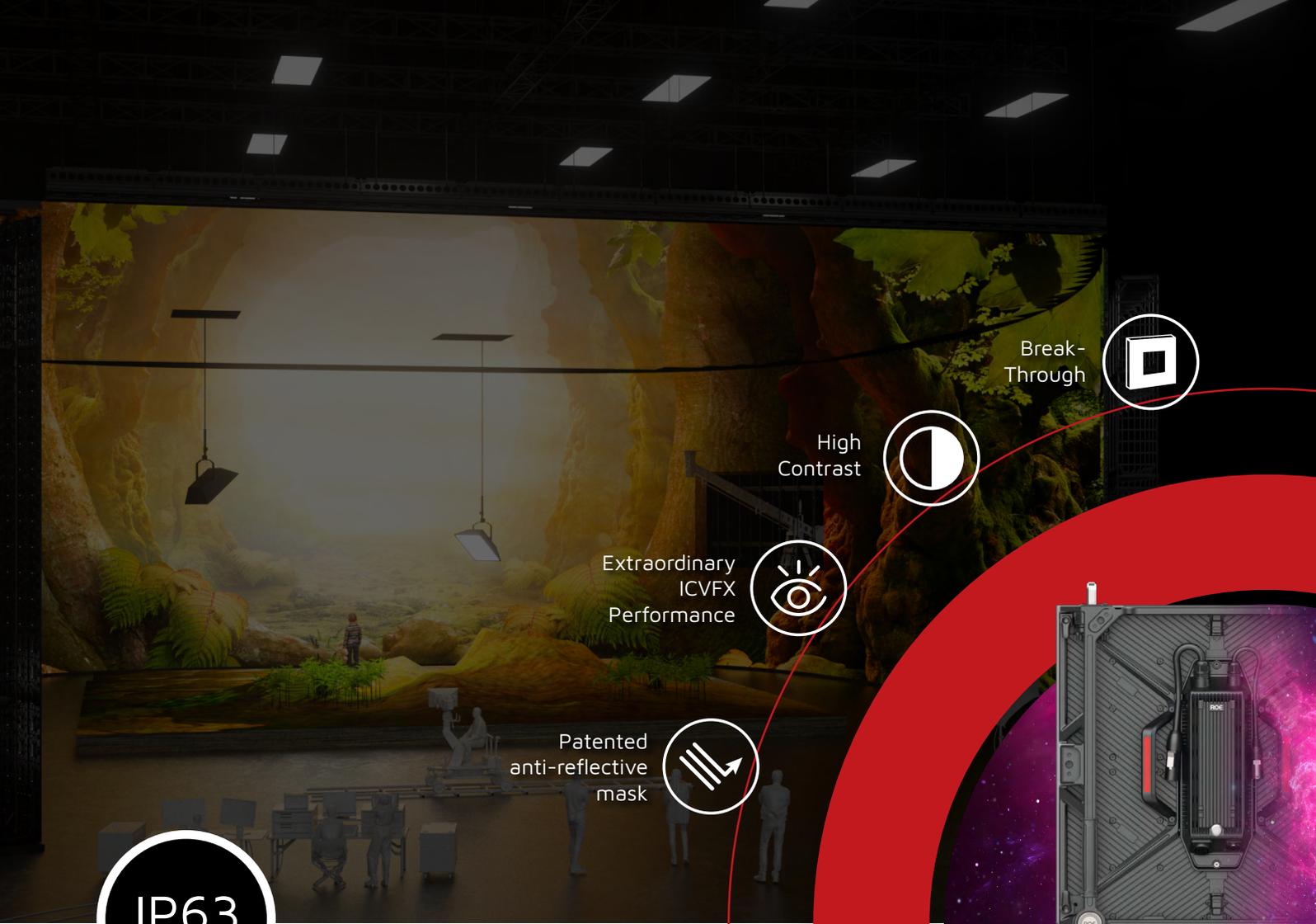
**IP63**

Break-Through

High Contrast

Extraordinary ICVFX Performance

Patented anti-reflective mask

Serves Various Applications

Easy maintenance - Safe wall access system

Extended LED lifecycle, energy saving and efficient heat-dissipation

Front water resistant - IP 63

# Serves Various Applications

Obsidian continues to serve the world's top virtual production filming customers, leads the technological innovation, and solves the pain points of film shooting. The front surface is waterproof, no fear of the rain or wet filming conditions.

# Specifications

| Obsidian | OB 2.6 |
|---|---|
| Pixel Pitch | 2.6mm |
| Max Brightness Calibrated | 2500nits |
| Panel Dimensions | Display Pad: 500mm x 500mm x 74.6mm \| 23.6" x 23.6" x 2.9"<br>Pad + Frame: 500mm x 500mm x 81mm \| 23.6" x 23.6" x 3.2" |
| Panel Resolution (H x V) | 192 x 192 |
| Panel Weight | Display pad: 5.4kg; 11.9 lbs<br>1m x 0.5m Frame: 6.3kg; 13.89 lbs<br>0.5m x 0.5m Frame: 4.3kg; 9.48 lbs |
| Power Consumption Max / Average | 220W / 110W |
| BTU Max / Average | 750 / 345 |
| Transparency | Solid |
| Serviceability | Front / Rear |
| Curving (Concave & Convex)*1 | Concave 5°~Convex 5° |
| Max. Hanging (panels) *2 | 20 |
| Max. Stacking (panels) *3 | 20 |
| LED Configuration | Flip chip 1515 black |
| Viewing Angle Horizontal | 160° |
| Viewing Angle Vertical | 140° |
| Scan Ratio | 1/8 |
| Refresh Rate | 7680Hz |
| Gray Scale | 16bit |
| Frame Material | Aluminum Alloy |
| Processing Platform | Brompton / Megapixel |
| 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, ETL, FCC, UKCA, WEEE |

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

1. Convex curving ability only applies to custom tiles.
2. The max. hanging amount is only valid when the ROE Visual hanging bar and complementary accessories are used and in an indoor situation, safety factor is 8. No climbing is allowed.
3. 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