

ROE

CREATIVE DISPLAY



Obsidian 2.6

Top-Notch LED Solution for Virtual Production

INDOOR LED PANELS



Break-Through Design for VP Studios

The larger a virtual production studio is, the more challenging to use it in a flexible way. Obsidian changes the game with its universal structure design. Distinguished from any other traditional LED panel, obsidian gives the artists the freedom to get a flexible LED wall, easy to remove a panel and create an access hole, and possible to remove structural frames up to 2m wide and 2m high or more, facilitating the setting of large photography props and lighting to make full use of the screen.

Suitable for Varied 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 rainy or wet filming environment; The curve lock could also be customized to a specific degree instead of a certain degree. It's all up to you.

IP63





Extraordinary ICVFX Performance

Obsidian panels satisfy the strictest ICVFX demands on contrast and color performance for long-term filming. They help you create an immersive and realistic world with vivid colors that faithfully recreate real-life scenarios, offering a truly authentic and captivating experience.



Conventional LED



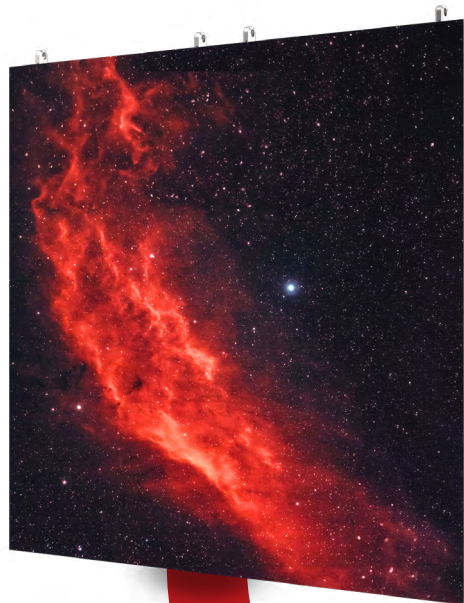
Obsidian

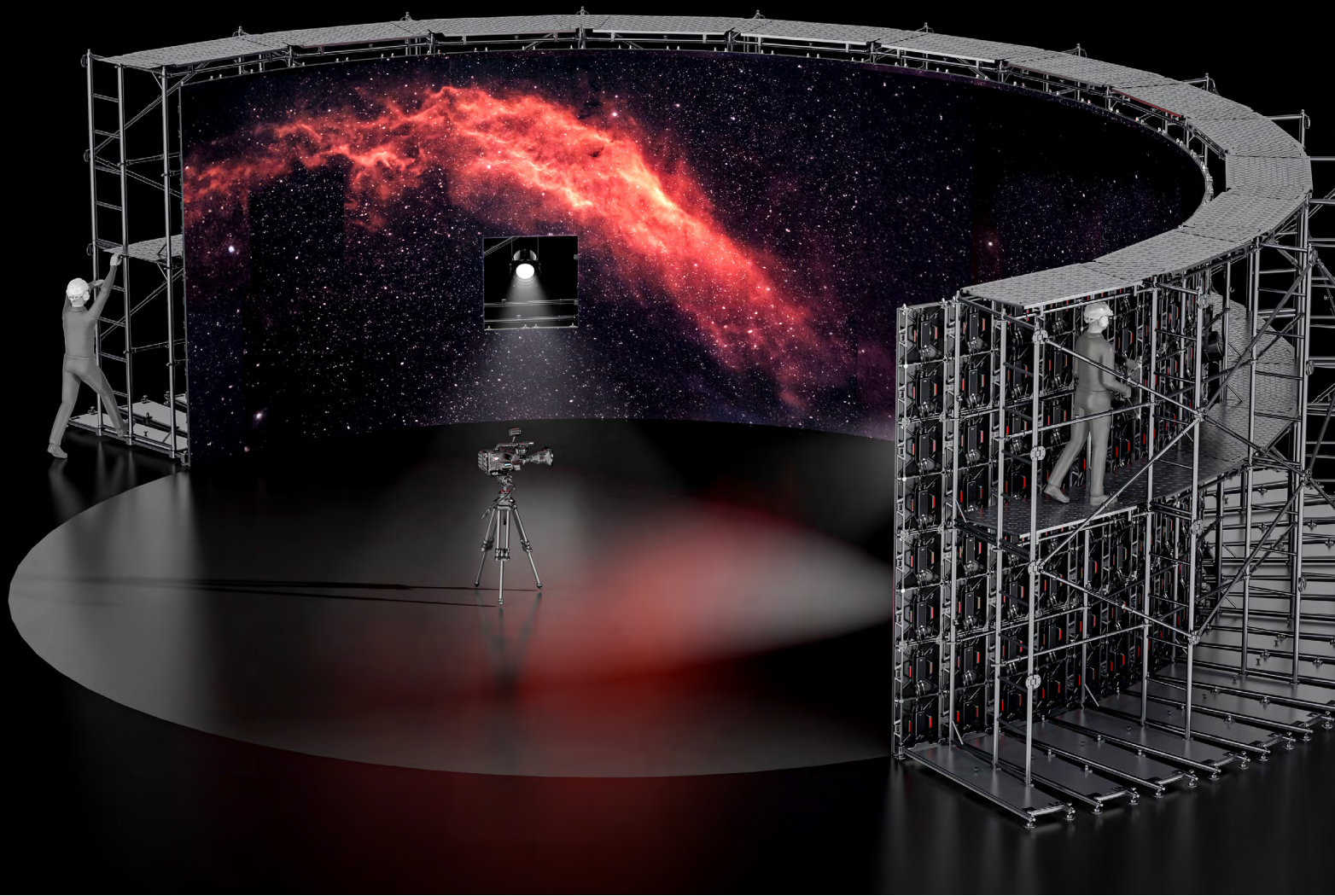
High Contrast

Reaching an extraordinarily high contrast of 31800:1, a brightness of 2500 nits, and richer grayscales, the Obsidian can present more precise and detailed content with flip-chip LEDs and ROE-patented Deep Black Coating Mask, reducing light reflection by 90%+.

Color Consistency

Obsidian offers a stable operation environment, guaranteeing continuing true-to-eye color performance. Integrated with cutting-edge temperature sensing chips, Obsidian is equipped with advanced preset functionality and the capability to achieve automatic color adjustment along with temperature variation in future upgrades.





Top Class Maintenance System

Obsidian adopts the patented pre-launch mechanism design, making operating easier, saving labor, and reducing LED damage occurrence.

Obsidian supports various applications such as hanging, stacking, and ceiling use. The integrated modular design meets the front and rear maintenance requirements, saving costs and time.

The walk pass system provides stable and climbable access for maintenance, and the anti-drop design guarantees staff safety.

Energy Saving and Low Carbon Footprint

Obsidian panels consume only half the power of an average LED display while delivering the same brightness of 1500 nits with high-end components and structure design. Even when loading with 2500 nits brightness, its temperature is far lower than any display of virtual production.



Break-Through



High Contrast



Perfection in visual performance



Top Class Maintenance system



Extended LED lifecycle, energy saving and efficient heat-dissipation



For hanging or stacking configuration



LED ceiling



IP 63 rating



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" 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 1m x 0.5m Frame: 6.3kg / 13.89 lbs 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



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