

| ROE Black Quartz LED

OVERVIEW

BLACK QUARTZ LED PANELS

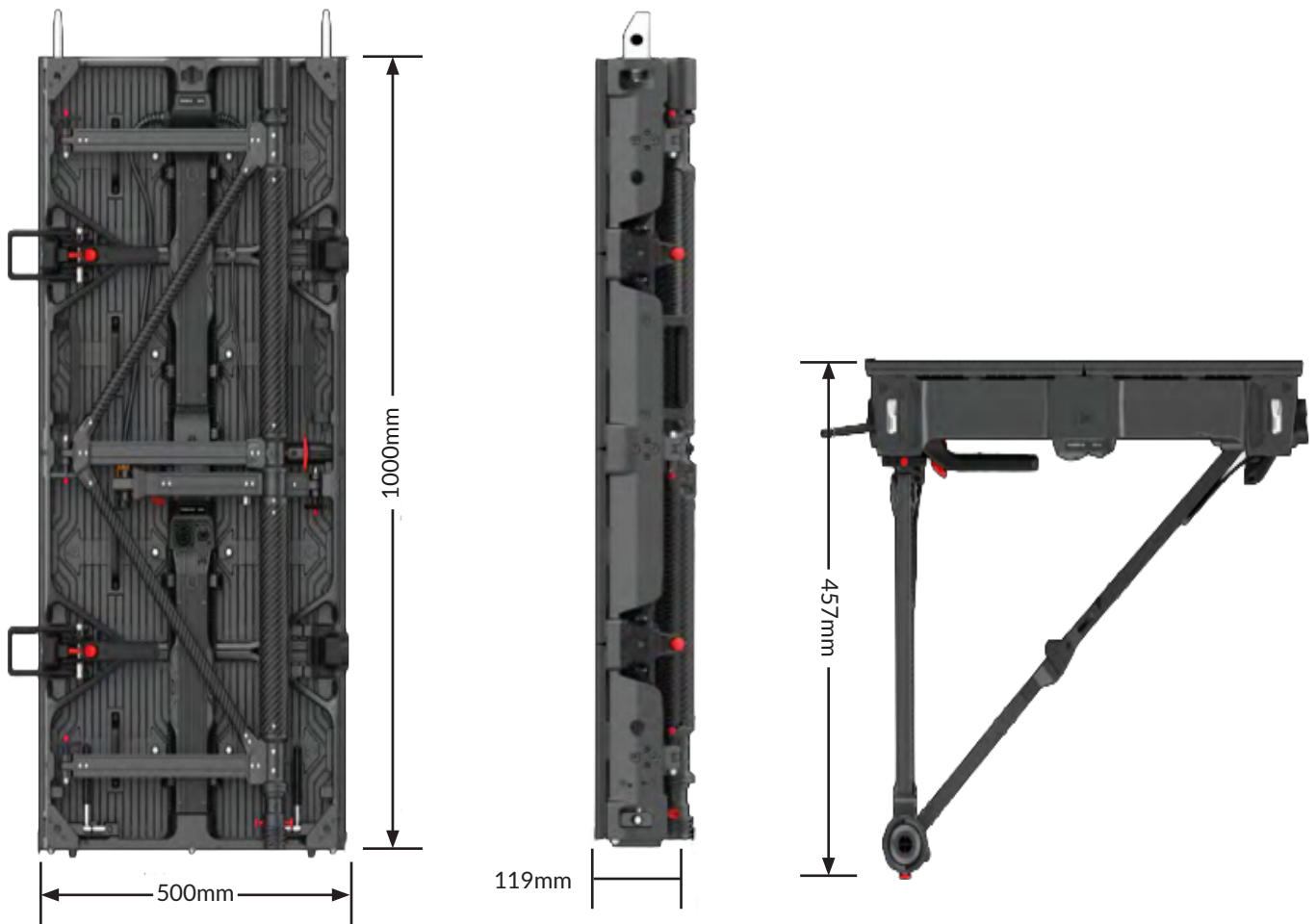
The Black Quartz LED panels are a fully integrated outdoor LED solution designed for fast builds, touring, and high-wind environments. Featuring an incorporated wind-bracing truss and rigid magnesium alloy frame, Black Quartz delivers a seamless small-pixel-pitch display with exceptional visual performance and structural stability. Designed for hanging or stacking configurations, Black Quartz supports flat or curved builds and is well suited for touring, festivals, and outdoor live events.



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FEATURES & DIMENSIONS

- Pixel Pitch: 4.6mm
- Max Brightness: 5,000 nits (Black LED)
- Viewing Angle: 160° horizontal / 110° vertical
- IP Rating: IP65 (Outdoor)
- Panel Dimensions (WxHxD): 500mm x 1000mm x 82.62mm (19.69" x 39.38" x 3.25")
- Panel Weight (incl. Support Frame): 22.0 kg (48.50 lbs)
- Serviceability: Front/Rear
- Curving Capability: Concave to Convex $\pm 10^\circ$
- Frame Material: Magnesium Alloy
- Processing Compatibility: Brompton



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TECHNICAL SPECIFICATIONS

| Black Quartz | BQ 3.9 | BQ 4.6 | BQ 6.2 |
|------------------------------------|--|--|--|
| Pixel Pitch | 3.9mm | 4.6mm | 6.2mm |
| Max Brightness Calibrated | 5000nits with Black LED | 5000nits with Black LED | 5000nits with Black LED |
| Panel Dimension | 500mmx1000mmx82.62mmm 19.69" x 39.38" x 3.25" | 500mmx1000mmx82.62mmm 19.69" x 39.38" x 3.25" | 500mmx1000mmx82.62mmm 19.69" x 39.38" x 3.25" |
| Panel Resolution (H X V) | 128 x 256 | 108 x 216 | 80x160 |
| Panel Weight | 17.8kg; 39.24lbs | 17.8kg; 39.24lbs | 17.8kg; 39.24lbs |
| Panel Weight (incl. Support Frame) | 22.0kg; 48.50lbs | 22.0kg; 48.50lbs | 22.0kg; 48.50lbs |
| Power Consumption Max/ Average | 360W / 180W | 370W / 185W | 450W / 225W |
| BTU Max/Average | 1230 / 565 | 1265 / 580 | 1535 / 705 |
| Transparency | Solid | Solid | Solid |
| Serviceability | Front / Rear | Front / Rear | Front / Rear |
| Curving (Concave & Convex) | Concave 10°~Convex 10° | Concave 10°~Convex 10° | Concave 10°~Convex 10° |
| Max. Hanging (panels) | 13 | 13 | 13 |
| Max. Stacking (panels) | 6 | 6 | 6 |
| LED Configuration | SMD 1415 Black (common cathode) | SMD 1921 Black (common cathode) | SMD 1921 Black (common cathode) |
| Viewing Angle Horizontal | 160° | 160° | 160° |
| Viewing Angle Vertical | 110° | 110° | 110° |
| Scan Ratio | 1/8 | 1/6 | 1/5 |
| Refresh Rate | 3840Hz | 3840Hz | 7680Hz |
| Gray Scale | 15bit | 16bit | 16bit |
| Frame Material | Magnesium Alloy | Magnesium Alloy | Magnesium Alloy |
| Processing Platform | Brompton / Megapixel / Evision | Brompton / Megapixel / Evision | Brompton / Megapixel / Evision |
| Operational Temp/Humidity | -20°~45°C, 10~90%RH -4°~113°F, 10~90%RH | -20°~45°C, 10~90%RH -4°~113°F, 10~90%RH | -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 | -40°~60°C, 10~90%RH -40°~140°F, 10~90%RH | -40°~60°C, 10~90%RH -40°~140°F, 10~90%RH |
| IP Rating | IP65 | IP65 | IP65 |
| Certifications | CE, ETL, FCC, WEEE | CE, ETL, FCC, WEEE | CE, ETL, FCC, WEEE |