

# 70" HD Entero LED video wall display cubes



CC70-3501



## 24/7 Reliability

You expect quality. You need an effective solution that works reliably 24/7, no questions asked. Rear projection video walls are a must to maximize your efficiency and response time when monitoring or managing critical real-time information and situations. Whether it's people, processes, assets or infrastructure, seamless video walls provide an unparalleled means to quickly and effectively share large amounts of information for monitoring and control.

For more than 30 years, Christie® has been manufacturing high-performance video wall display systems that can positively affect our everyday lives. Our display cubes are purpose built for 24/7 data-monitoring environments and we offer a wide range of resolutions, brightness and display sizes.

**CHRISTIE®**



▲ Massachusetts Bay Transportation Authority

◀ Federal Police Intelligence Center of the Public Security Secretariat

## Benefits of Christie Entero LED video wall display cubes

### Purpose built for high performance

- Only 1mm nominal space between screens
- The best technologies used to ensure high reliability and long life
- Geometric precision for seamless imaging across multiple displays
- ArrayLOC™ – intelligent automatic brightness and color management
- Reduced disruption because there are no consumable components to replace
- Very wide color gamut for superior color reproduction
- Ultra high contrast, viewability and display performance
- Vivid color presentation – wider color gamut than traditional mercury based lamps
- DLP® technology for best data and video imaging
- Integrated 6-axis adjustment system for precise geometry alignment
- Sealed optical design – no filters required
- Innovative cooling system with heat pipe technology – no motorized heat pumps, no hazardous fluids, no annual maintenance

### Purpose built for an overall low cost of ownership

- Zero maintenance design – no consumable components such as lamps, dust filters or color wheels
- Solid-state design – no arc lamps, motorized color wheels or mechanical apertures
- Designed for long-term use and performance – no need to replace in a few years
- >60,000 hours rated LED life
- Modular design for minimal downtime if a repair is required
- Overall system provides up to six years of worry-free performance

### Purpose built for reliability

- >50,000 hours MTBF on major modules
- DLP display technology for superior long term performance and reliability
- Dust-free sealed optics protect key optical components from even the smallest of particles
- Reduced disruption because there are no consumable components to replace
- Christie's industry-leading service and support

# 70" HD Entero LED cube specifications

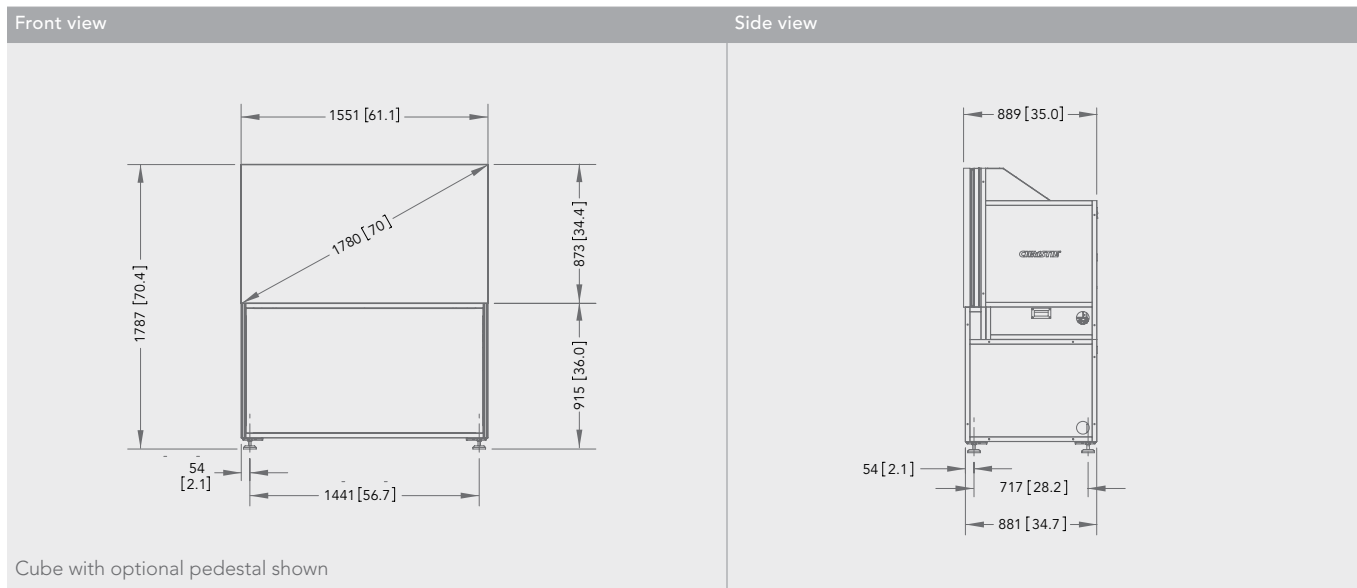
|                                  |   | WUXGA  |                         |
|----------------------------------|---|--|-------------------------|
| Product make-up <sup>1</sup>     | cube  | • CC70-3501  |                         |
|                                  | projection engine   | • RPMHD-LED01  |                         |
|                                  | screen options  | • SC70-XP01  |                         |
| Imaging technologies             | imaging   | • 1-chip DLP, Dark Chip  |                         |
|                                  | native resolution   | • HD (1920 x 1080)   |                         |
|                                  | illumination  | • Light Emitting Diodes (Red, Green, Blue)   |                         |
| Pixel density                    | pitch   | • 31.4 pixels per linear inch  |                         |
| Screen                           | gap   | • 1mm nominal gap between adjacent images/screens  |                         |
|                                  | types   | • Wide angle cross prism   |                         |
| Inputs                           | standard  | • Digital DVI-I with analog VGA  |                         |
|                                  | scan rates  | • Horizontal: 15-120kHz • Vertical: 23.97-150Hz • Pixel clock: 165 MHz   |                         |
|                                  | expansion   | • 3 input module slots available   |                         |
|                                  | optional modules  | • VGA, Digital (DVI), Analog (RGB), dual SDI/HDSI, twin HDMI   |                         |
|                                  | compatibility   | • Compatible with Christie TVC Series video wall controllers or other input sources from VGA to QXGA as well as standard HD formats  |                         |
| Illumination                     | technology  | • LED (RGB)  |                         |
|                                  | LED life rating <sup>2</sup>  | • >60,000 hrs  |                         |
| Color                            | temperature range   | • 3200-9300K   |                         |
|                                  | gamut   | • Beyond 100% EBU  |                         |
|                                  | adjustment and control  | • Screen to Screen: ArrayLOC automatic brightness and color management<br>• Individual: Comprehensive Color Adjustment (CCA™)  |                         |
| Optical                          | lens type   | • 0.69:1 low distortion, zero offset, with field curvature correction  |                         |
|                                  | brightness uniformity   | • Brightness uniformity control provides up to 100% uniformity capability for critical applications  |                         |
|                                  | contrast ratio  | • >100,000:1 (shutter mode) • 1400:1 (full field)  |                         |
| Control/networking               | ports/controls  | • 2 RS-232 ports and 1 RS-422 port • Field upgradable software via RS-232 network or Ethernet<br>• IR remote control • GPIO port • On-board ChristieNET™ connectivity (RJ45) |                         |
| Upgradability                    | software  | • Christie KoRE™ 10-bit librarian communication software for field upgrade of firmware   |                         |
| Optional accessories             | inputs  | • See input option modules above   |                         |
|                                  | other   | • Wired remote control • Pedestal  |                         |
| Physical characteristics         | dimensions  | • Depth: 35.0" • See included line drawings for additional dimensions  |                         |
|                                  | weight (approx.)  | • Cube enclosure: 139lbs (63kg) • Screen (XPS type): 81lbs (37kg) • Light engine: 60lbs (27kg)   |                         |
|                                  | shipping weight (approx.)   | • Cube enclosure: 196.5lbs (89kg) • Screen (XPS type): 119lbs (54kg) • Light engine: 68lbs (31kg)  |                         |
|                                  | stackability  | • 3 units high (call if requirement is >3 high)  |                         |
|                                  | service type  | • Rear access  |                         |
| Environment                      | operating temperature <sup>3</sup>  | Cube   | • 40-95°F (5-35°C)      |
|                                  |   | Screens  | • 63-88°F (17-31°C)     |
|                                  | non-operating temperature   | • -4-122°F (-20-50°C)  | • -4-95°F (-20-35°C)    |
|                                  | humidity  | • 20-80% non-condensing • Storage: 35-65% non-condensing   | • 40-60% non-condensing |
|                                  | altitude  | • 0-3000m (0-10,000ft)   | • 0-3000m (0-10,000ft)  |
| Power rating (projection engine) | voltage   | • 100-240 VAC 50/60Hz  |                         |
|                                  | current   | • 4.8A   |                         |
|                                  | consumption   | • Rating: 370W   |                         |
|                                  | dissipation (maximum)   | • 1263 BTU/hr  |                         |
| Reliability and serviceability   | MTBF  | • >50,000 hrs MTBF for all major modules   |                         |
|                                  | MTTR  | • <15 minutes with modular design • <5 minutes for lamp  |                         |
| Regulatory (projection engine)   | • Directives: (EC) 2002/95/EC (RoHS) • 2002/96/EC (WEEE) • Regulation (EC) No. 1907/2006 (REACH) • CAN/CSA C22.2 No. 60950-1 • UL 60950-1 • IEC 60950-1 • FCC, Part 15, Subpart B, Class A • EN55022/CISPR22 Class A • EN55024/CISPR24<br>• Certifications marks (check with Christie for latest update): • cULus (Canada & US) • CE (EU) • CCC (China) • GoSt-R (Russia) • KC (Korea) • PSE (Japan) • C-Tick (Australia & New Zealand)   |  |                         |
| Calibration                      | • All projection units are factory calibrated for best color performance  |  |                         |
| Limited warranty                 | • Two years parts and labor • Contact an authorized Christie representative for full details of our limited warranty  |  |                         |
| Additional features and benefits | • Integrated 6-axis adjustment system for precise geometry alignment • Full-function remote keypad with easy-to-use menu system<br>• Multiple setup memories to manage multiple input sources • Picture-in-Picture capability • Control and status monitoring over IP<br>• Extensive scaling capability • Window/screen processing – external inputs can be displayed across an array of screens up to 3x3 without an external processor (a single input must be distributed to all cubes or it can be daisy-chained via use of the cube's optional Twin HDMI module) • 3 x Redundant cooling fans • Innovative water-filled, sealed heat pipe cooling system (maintenance free, no motorized pumps, hazardous chemicals or concern of leakage) |  |                         |

<sup>1</sup> Cube, light engine and screen are sold separately. <sup>2</sup> LED lifetime is based on expected useful life to 50% brightness. <sup>3</sup> For best long-term performance and reliability, Christie recommends that all electronic equipment, such as projection systems, are regularly operated at temperatures below 77°F (25°C).

# Brightness/Performance characteristics – CC70-3501 70" cubes

| Engine option | Screen option | Screen type | Viewability  |        | Screen 1/2 gain |        | Brightness <sup>1</sup><br>(cd/m <sup>2</sup> ) |      |
|---------------|---------------|-------------|--------------|--------|-----------------|--------|---|------|
|               |               |             | Horiz.       | Verti. | Horiz.          | Verti. |   |      |
| HD native     | RPMHD-LED01   | •SC70-XP01  | •Cross prism | •180°  | •120°           | •±35°  | •±27°   | •216 |

<sup>1</sup> Brightness specifications are at reduced color space settings.



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