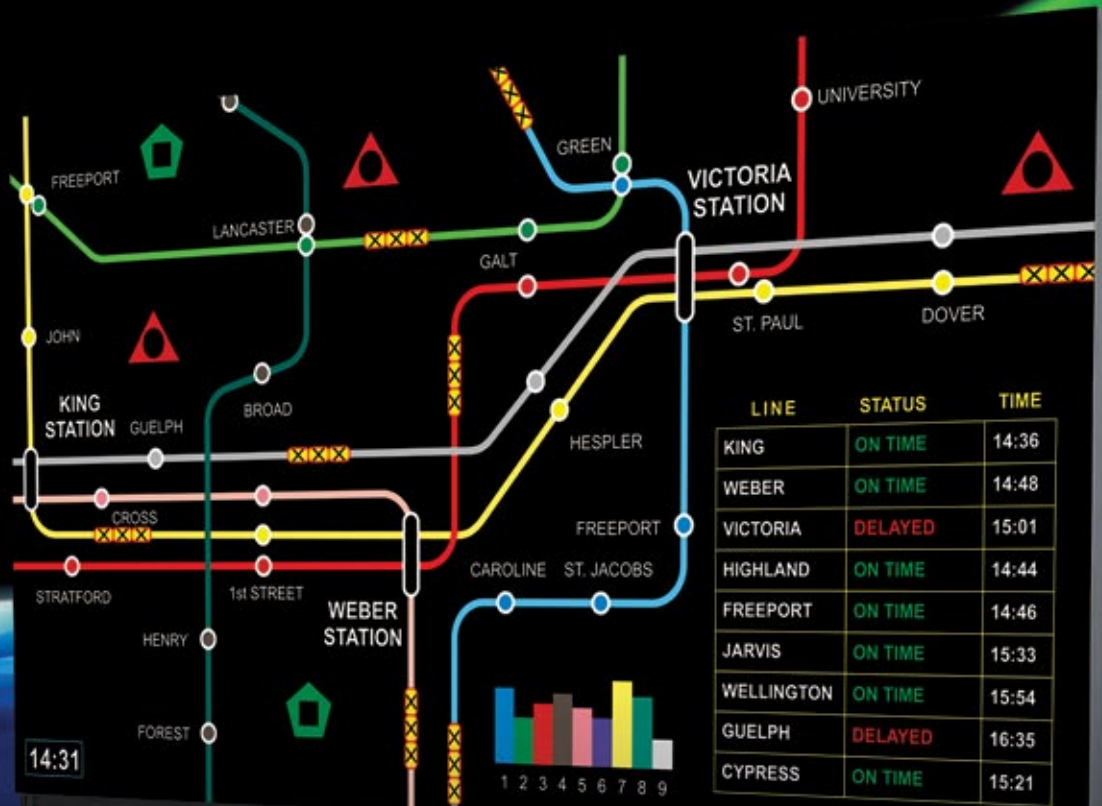


# Christie Entero HB Series HD display wall cubes



## Key features

- High performance
- Latest technologies
- Low power consumption
- Wide viewability
- Best price/performance
- Automation features
- Redundancy features

- Flexible operation
- Zero maintenance design
- Upgradable
- Superior control abilities
- Diagnostic monitoring
- “Plug and Play” setup
- Fast installation

- Modular design
- Multi-mode
- High reliability
- Eco-friendly
- Efficient operation
- Wi-Fi capability
- Both front and rear access

**CHRISTIE®**

# First. Brightest. Wireless control.

## Discover the Christie Entero HB Series

Christie® Entero™ HB is the industry leading evolution in performance, reliability and confidence for control room video wall displays. The next generation of high-brightness control room LED displays with up to 1350 lumens capability, it offers the brightest LED projection for cubes available. The Christie Entero HB includes Christie ArraySync™ for superior, intelligent, automatic color and brightness wall management.

Designed for zero maintenance, our safe, sealed heat pipe cooling system ensures long LED lifetime and reliability. The Christie Entero HB series offers minimal set-up time and effort. The modular design, with lightweight panels for rear access or remote control screen release and lift system for front access, makes installation and service easy. The optional Thinklogical® direct fiber input card provides fiber-optic video signal extension capability. With the integrated 6-axis geometry alignment system, no electronic image correction is needed providing true native imaging with no

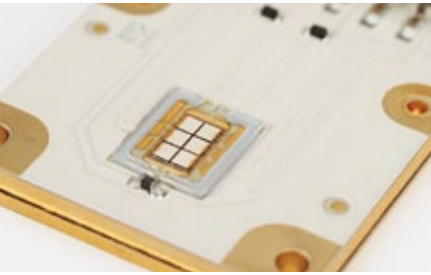
scaling or software distortion. Through the tiling feature, display single source content across an entire array.

Choose the most advanced LED display system design for your control room needs, and along with Christie's quality, service and support, experience an overall low cost of ownership and operation. With the highest brightness on the market, plus unparalleled 24/7 performance, the choice is simple. Choose Christie Entero HB.

Exceed your expectations.

## Technical specifications

		Christie Entero HB HD displays		
Models		Cube	Engine	Screen <sup>1</sup>
	70" HD cube system, rear access	• CC70-3601	• RPMHD-LED02	• SC70-XP01 Cross Prism
	70" HD cube system, front access	• CF70-4001	• RPMHD-LED02	• SF70-XP01 Cross Prism
	HD light engine (stand-alone)	• RPMHD-LED02 • 0.64:1 lens and 1.1:1 lens versions available • Non Wi-Fi models also available		
Imaging technologies	imaging	• Superior 0.95" 1-chip DLP®, Dark Chip • Texas Instruments		
	native resolution	• HD (1920 x 1080) • 16:9 aspect ratio		
	illumination	• LED (Red, Green, Blue) • OSRAM • Redundant LED Architecture		
Cross prism screen	technology	• Optical: Fresnel/cross prism • DNP		
	screen gap (image to image) <sup>2</sup>	• 0.2-1.7mm • Adjustable • 1mm nominal recommended for rear access @25°C • 1.7mm nominal recommended for front access @25°C		
	viewability	• 180° Horizontal • 120° Vertical • ±35° Horizontal ½ gain • ±27° Vertical ½ gain		
Brightness	light engine (ANSI)	High brightness mode	Normal mode	Eco mode
	control	• Up to 1350 lumens	• 900 lumens	• 700 lumens
	control	• Manual and continuous automatic (ArraySync) control to manage brightness uniformity across large display walls		
Color	temperature range	• 3200-9300°K		
	gamut	• Wider than EBU		
	white color balance	• 0.0035 Δu' Δv'		
	control	• ArraySync automatic color management with 12-bit processing to precisely and continuously manage uniformity across large display walls without user intervention • Precise tri-stimulus color sensing (x,y,z) for superior color management • Display light engine is factory calibrated using scientific-grade spectral radiometers for high precision color management • Comprehensive fine adjust controls for manual setup if desired		
Optical	brightness uniformity	• >95% at typical brightness levels specified		
	contrast ratio	• Up to 2200:1 full field without using dynamic or artificial techniques		
Audible noise	noise power level	• <30 dBA typical at 1 meter distance from screen center		
Inputs	standard	• 1 x digital DVI-D • 165 MHz maximum pixel clock frequency • Single link		
	DVI loop-through capability	• Up to 25 displays on a single loop-through chain		
	HDCP support	• Included (operating at native resolution)		
	optional expansion	• Secondary DVI-D input with automatic fail detection and switch over • Thinklogical direct fiber input card		
	compatibility	• All Christie video wall processors and most standard sources		
Control and networking	methods	• IR full function remote keypad • External computer or control device via Ethernet and/or RS-232 and/or Wi-Fi (Wi-Fi can be disabled with no radio frequency transmission if required)		
	physical ports	• 1 x RS-232 • 2 x Ethernet RJ4		
	Ethernet bridging (daisy chain) limit	• Up to 25 Ethernet bridges, projector to projector without external switch		
Monitoring	status display	• 2 line by 16 character OLED display		
	diagnostics	• Via status display, RS-232 and Ethernet/Wi-Fi (Wi-Fi can be disabled with no radio frequency transmission if required)		



- ◀ Redundant LED design offers fail-safe operation.
- ▶ Front access design gains valuable space in control room design – place cubes directly against a wall, with the narrowest screen gaps in the industry and a smart air flow design for adequate system ventilation. Stand-alone LED light engine available for custom or direct throw installations.
- ▶ The Christie Entero HB Series features multiple light-weight snap-in service panels for easy rear access and an improved mirror alignment system for precise geometry control.



Christie Entero HB HD displays			
<b>Upgradability</b>	software/firmware	• Fast, on site firmware upgrades via Ethernet or RS-232	
<b>Options</b>	accessories	• Full function IR remote keypad • Secondary DVI-D input module • Thinklogical direct fiber input card • Cube pedestals • Alternate screen types • Motorized 6-axis accessory required for front access models	
<b>Physical characteristics</b>	screen size	• 61.1 x 34.4" (1551 x 873mm)	
	cube depth (total)	• 36" (915mm) for CC model • 39.7" (1009mm) for CF model	
	weight – cube	• 147lbs (66.4kg) for CC model • 221lbs (100kg) for CF model	
	weight – screen	• 78lbs (35.4kg) for CC model • 66lbs (30kg) for CF model	
	weight – engine	• 55lbs (25kg)	
	cube stacking limit <sup>3</sup>	• 5 cubes high	
	service access	• Rear lightweight panels for CC models • Remote control screen release and lift system for CF models	
<b>Environment</b>	operating temperature	Cube	Engine
		• 40-90°F (5-35°C)	• 32-104°F (0-40°C)
	non-operating temperature	• -4-122°F (-20-50°C)	• -13-158°F (-25-70°C)
		Screen	• 63-88°F (17-31°C)
	humidity	• 20-80% NC, 35-65% NC for storage	
	altitude	• 0-3000m (0-10,000 feet)	
seismic	• The CC70-3601 cube system, up to a stack height of 5, meets the loading and stability requirements of the BOCA National Building Code under seismic forces associated with Zone 4 seismic activity Note: Tiebacks and concrete anchors are required to achieve this rating		
<b>Power rating (projection engine)</b>	power consumption	Eco mode	Normal mode
		• 155W	• 210W
		dissipation	High brightness mode
		• 529 BTU/hr	• 250W
voltage range	• 100-240 VAC (50-60Hz)		
<b>Reliability and serviceability</b>	MTBF	• >60,000 hrs for all major modules • 76,000 hrs for power supply	
	MTTR	• <15 minutes via modular servicing	
	cooling fan lifetime	• >100,000 hrs	
	LED lifetime	• >80,000 hrs in eco mode • >60,000 hrs in normal operating mode	
<b>Regulatory (projection engine)</b>	• (EC) 2011/65/EU (RoHS) • 2012/19/EU (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 • ICES/NMB003 (A) • EN55022/CISPR22 Class A • EN55024/CISPR24 • The product is designed to comply with rules and regulations required for the product to be sold in various regional markets, including: USA/Canada, EU, Australia/New Zealand, Kuwait, China, Korea, Japan, Mexico, Ukraine, Russia, India, South Africa, and Saudi Arabia		
<b>Warranty</b>	• Two years parts and labor limited warranty • Extended warranty available		
<b>Additional features and benefits</b>	• Integrated 6-axis adjustment system – no electronic image correction required • Tiling feature to display a single source across a wall array (to 25 displays) • DVI loop-through minimizes cabling • Multiple Ethernet ports minimize cabling • Safe, water-filled, maintenance free, metal sealed heat pipe cooling system ensures long LED lifetime and reliability • No liquid cooling pumps containing hazardous liquids and requiring annual maintenance/inspection nor hazardous waste disposal • Cable channeling system enables clean, professional and concealed cabling of all input, power and interconnect cables within the cubes		

<sup>1</sup> Other screen types available. <sup>2</sup> Depending on environment and wall configuration. <sup>3</sup> Depending on pedestal type used.

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Kitchener, Ontario



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