

Christie TVC-700 display wall processor

TVC-700

Powerful processing for space-limited control rooms

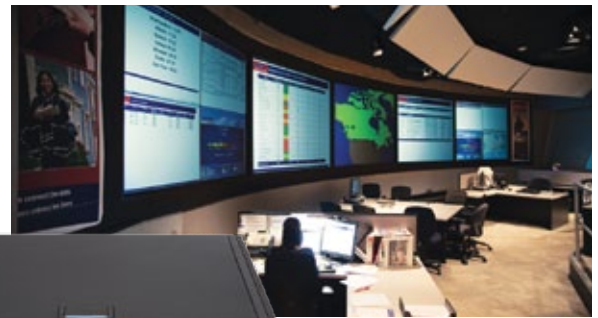
The Christie® TVC-700 is a flexible, build-to-order display wall processor delivering exceptional graphical power and multiple input options. The Christie TVC-700 supports video wall configurations up to 18 outputs. It offers the flexibility to display 3D applications, network-streamed desktops, and direct-connected, high-resolution DVI, RGB and video inputs anywhere, and at any size on the display wall, with real-time performance. The TVC-700 is comprehensively managed through Christie MASTERSuite™ software – a feature-rich, easy to set up and use application suite providing immediate and convenient access to any source of visual information found in a control room. The Christie TVC-700 is perfectly suited for such environments as emergency operation centers, 911/dispatch facilities, public utilities, design centers, oil and gas exploration, and military applications, among many others.

Exclusive Christie MASTERSuite wall-management software

The power and flexibility of our exclusive Christie MASTERSuite software with WallManager™ and MediaManager™ applications, enables tiled video-wall displays to respond as a single, ultra-high resolution Windows desktop. Display multiple media outputs anywhere and at any size. Arrange to see one image, or place multiple video windows across the entire display. Quickly create and save multiple wall scenarios for fast recall and display of the exact placement of your applications and content. You have full control: either directly on the wall or via networked remote clients.

Run 3D applications on the Christie TVC-700

Christie TVC-700 controllers ship standard with Windows 7 Ultimate x64 Edition – allowing software applications to run efficiently and seamlessly on your video wall, including 3D applications such as CAD/CAM, directly from the controller. Applications designed to do so can take full advantage of the ultra-high resolution desktop the Christie TVC-700 provides, enabling the display of more information, at a higher resolution than is available on any normal user's desktop system, all on a shared display wall. A Christie TVC-700 enabled common operating picture generates faster and more accurate decision making in your organization, saving time, money, and even lives in the process.



- ▲ Canada Post National Control Center, Ottawa, ON
- ◀ Christie TVC-700

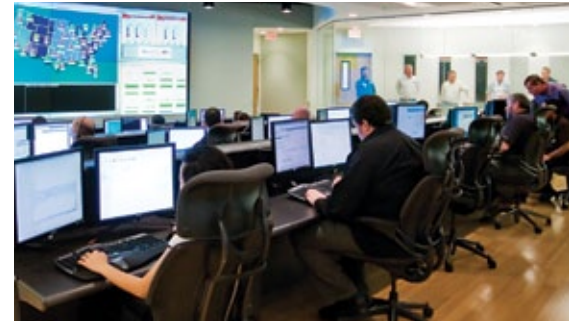
Powerful processing

The Christie TVC-700 is fast, powerful and purpose-built for the control room environment, based on a powerful 2.4 GHz Intel® Xeon® Quad Core processor with 12GB of memory. Inputs and outputs are driven by state-of-the-art, reliable, graphics-processing hardware technologies that enable the display of multiple video and RGB/DVI inputs anywhere and any size across video walls as large as 150 million pixels, supporting a single output resolution of up to 4096 x 2160 pixels.



▲ Massachusetts Bay
Transportation Authority,
Boston, MA

▶ Christie MASTERSuite
software screen capture



Multiple input display of external media

The Christie® TVC-700 accepts and displays up to 10 RGB/DVI inputs simultaneously, including support for ultra-high resolution desktop computers with input resolutions up to 2560 x 1600 pixels per input. This powerhouse processor also accepts and simultaneously displays up to 40 standard video input sources. Direct connected inputs can be placed anywhere, at any size on your video wall. Additionally, because the Christie TVC-700 is a network-based system, up to 100 connected clients, using our RDClient software, may be simultaneously displayed, as desired. Network display clients could be from another room, another building, another city or even another country allowing multiple centers to share information and effortlessly collaborate.

Christie TVC-700 display wall processor features

Built for reliability

State-of-the-art workstation performance
Quad Core Xeon®, 12GB RAM

Built for high performance

High-performance input and output
hardware processing technologies
PCI Express switch fabric
Supports up to 18 display outputs, up to 40 video inputs
and up to 10 RGB/DVI/Component inputs
Exclusive, easy-to-use Christie MASTERSuite™
wall-management software

Built for an overall low cost of ownership

High reliability and MTBF (mean time between failures)
No additional licensing fees
No annual software-maintenance fees

Christie MASTERSuite wall-management software feature list

Media display features

Display multiple media windows anywhere
(local applications, RGB/DVI inputs, remote desktop clients, video)
Profiles for media-display windows
Desktop shortcuts
Secondary-backup channels
Media cropping, zooming, scaling
Window border, format controls
Third-party desktop applications, including 3D applications

Remote wall viewing and control

Mimic view and control
LiveView™ and control
Interactive-application control

Wall layouts and scenarios

Scenario creation, editing and display
RS-232, Ethernet control, activation
Embed device tasks in scenarios
Scenario snapshot, packaging and scheduling

Utility and interface features

Security management
Remote-desktop control
QuickLaunch scenario activator
WallManager™ – complete wall management
WallManager – multiple controllers
Multi-language support

Christie TVC-700 specifications

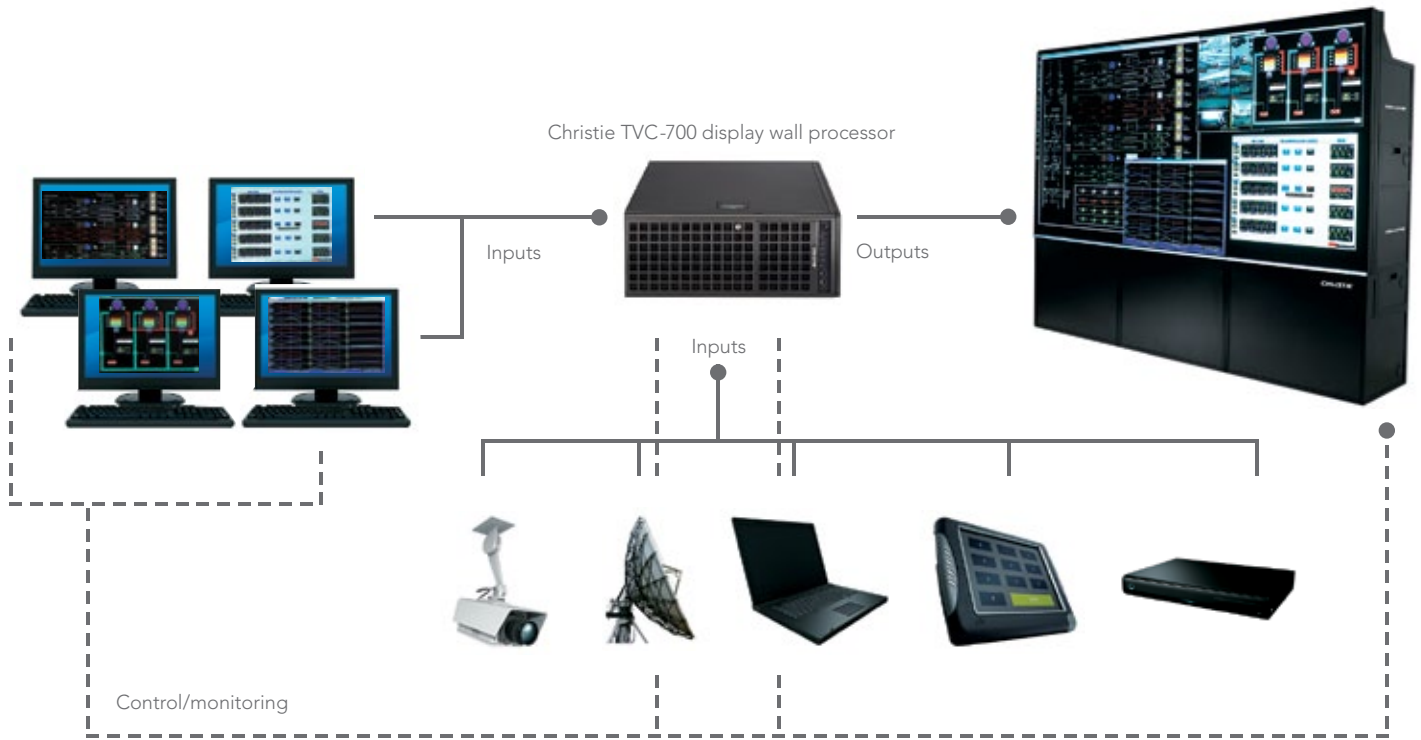
Christie TVC-700		
Base hardware system	chassis	• 4U form factor
	CPU	• 2.4 GHz Quad-Core Xeon CPU
	operating system	• Microsoft Windows 7 Ultimate (x64)
	memory	• 12GB DDR3 SDRAM
	hard disk storage	• 1 x 1TB 3G SATA 7200RPM
	removable storage	• DVD/RW SATA Optical Drive
	networking	• 2 x Gigabit Ethernet
	control interface	• Keyboard, mouse
Software	control	• 4 x USB 2.0 ports, 1 x RS-232 serial port video-wall control
	operating system	• Microsoft Windows 7 Ultimate (x64)
Remote-desktop inputs	video-wall control	• Full-featured Christie MASTERSuite
	input	• RJ-45
	maximum number of remote desktops displayable	• 100 (simultaneous), nearly unlimited (defined)
	input resolution capability	• From XGA (1024 x 768) to WQXGA (2560 x 1600) – depends on supported resolution on client PC
Composite video inputs	wall placement	• Anywhere on the video wall
	type/formats	• NTSC M, NTSC J, NTSC N, NTSC 4.43 50/60, PAL I, PAL B, PAL D, PAL G, PAL H, PAL M, PAL N, PAL NC, PAL4.43 60, SECAM B, SECAM D, SECAM G, SECAM K, SECAM L, SECAM LD
	frame (refresh) rate	• 30 fps (NTSC) • 25 fps (PAL)
	maximum video inputs/system ¹	• 40 (simultaneous)
	advanced processing	• 3D comb filtering with advanced processing
RGB/DVI input expansion	wall placement	• Anywhere on the video wall
	maximum number of input sources per system	• 10
	analog input connection type	• DVI-I (comes with VGA and component adapter)
	digital (DVI) input connection type	• DVI-I (comes with HDMI adapter, no HDCP or audio support)
	maximum analog resolution/source	• 2048 x 1536
	maximum digital resolution/source	• 2560 x 1600 (with optional DL-DVI input board)
	support for non-interlaced sources	• Yes
	video-capture memory	• 32MB per channel
Display outputs	form factor	• 64-bit
	maximum number of display channels	• 18 (3 cards)
	maximum resolution/channel (analog)	• 2048 x 1536 @ 60Hz
	maximum resolution/channel (digital)	• 4096 x 2160 @ 60Hz
Optional accessories	graphics memory	• 2GB per card
		• Sliding rail rack mount kit
Dimensions	main chassis (2U)	• (LxWxH): 26.5 x 17.8 x 7.0" (673 x 452 x 178mm)
Environment	operating temperature	• 40-95°F (5-35°C)
	non-operating temperature	• -40-140°F (-40-60°C)
	humidity	• 8-85% non-condensing • 8-90% non-condensing (non-operating)
	altitude	• 0-3000m (0-10,000ft) • 0-9100m (0-30,000ft) non-operating
Power rating (base system capability)	voltage	• 100-240 VAC ±10% @ 50/60Hz
	current	• Rating: 13.5-9.5A @ 100-140V, 9.5-7.0A @ 180-240V
Power consumption	consumption	• Based on configuration (ask for details)
Reliability and serviceability	MTBF	• >50,000 hours of major modules
	MTTR	• <15 minutes (excludes main system board)

¹ Dependent on total configuration requirements.

Specifications are typical unless otherwise specified. Contact your Christie sales representative for details.

Christie TVC-700 specifications continued

Christie TVC-700	
Regulatory safety	<ul style="list-style-type: none"> • CAN/CSA C22.2 No. 60950-1 • UL 60950-1 • IEC 60950-1 emissions • FCC CFR47, Part 15, Subpart B, Class A – unintentional radiators • CISPR 22/EN55022 Class A – information technology equipment immunity • CISPR 24/EN55024 EMC requirements – information technology equipment environmental • Directives: (EC) 2011/65/EU (RoHS); 2012/19/EU (WEEE); Regulation (EC) No. 1907/2006 (REACH) • Certification 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)
Manufacturing location	<ul style="list-style-type: none"> • Designed, manufactured and tested by Christie Digital Systems Canada Inc.'s facility in Kitchener, Ontario. Christie Digital Systems Canada Inc.'s management system is registered to ISO9001 and ISO14001
Warranty	<ul style="list-style-type: none"> • Limited two years parts and labor



▲ Christie's TVC-700 network-based processors drive and manage tiled display arrays with multiple input sources

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