Christie TVC-1700 video-wall controller

TVC-1700

Designed for critical 24/7 control room environments

The Christie® TVC-1700 is a flexible, build-to-order display wall processor delivering the all the power needed to handle nearly any control room installation requirement. Supporting video wall configurations up to 64 outputs with the flexibility to display local applications, network-streamed desktops, and direct-connected DVI, RGB and video inputs anywhere and at any size on the wall. The TVC-1700 is comprehensively managed through Christie MASTERSuite™ software – a feature-rich, multi-tiered, easy to setup and use application suite providing immediate and convenient access to any source of visual information found in a control room. The TVC-1700 is perfectly suited for such environments as Public Utilities, Network Operation Centers, Emergency Operation Centers, 911/dispatch facilities, and miltary 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 layouts or scenarios for fast recall and display. You have full control over the content, either directly on the wall or via networked remote clients.

▲ Canada Post National Control Center, Ottawa, ON

◀ Christie TVC-1700

Run software applications on the Christie TVC-1700

Christie TVC-1700 controllers ship standard with Windows 7 Ultimate – allowing many software applications to run efficiently and seamlessly on your video wall, directly from the controller. Applications designed to do so can take full advantage of the ultra high resolution desktop the TVC-1700 provides, enabling the display of more information, at higher resolution than is available on any user's desktop, all on a shared video wall. A TVC-1700 enabled common operating picture generates faster and more accurate decision making in your organization, saving time, money and even lives in the process.

Powerful processing

The Christie TVC-1700 is both fast and powerful and purpose built for the control room environment, based on a powerful 2.4 GHz Intel® Xeon® Quad Core processor with 8GB of base memory. Options for additional memory and RAID 1 hard drives with a hot spare drive increase the performance and reliability of the system. Inputs and outputs are driven by 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 of display space. You will always feel confident that the performance and capabilities of the wall processing system will meet your demanding needs.

Multiple input display of external media

The Christie TVC-1700 accepts and displays up to 48 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 controller also accepts and simultaneously displays up to 128 standard video input sources. Direct connected inputs can be placed anywhere, at any size, on your video wall. Additionally, because the Christie TVC-1700 is a network-based system, up to 100 connected clients 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.

▲ Massachusetts Bay Transportation Authority, Boston, MA

▼ Christie's own Network Operations Center, Cypress, CA

▶ Christie MASTERSuite software screen capture

Christie TVC-1700 video-wall controller

Built for reliability
Robust processing platform
Redundant, hot-swappable hard drives, cooling fans and power supplies
Built for high performance
High-performance input and output hardware processing technologies
PCI Express switch fabric
Supports up to 64 display outputs, 128 video inputs and 48 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
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
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
Power Tools for display control
Remote-desktop control
QuickLaunch scenario activator
WallLaunch scenario activator
WallManager – complete wall management
WallManager – multiple controllers
Multi-language support

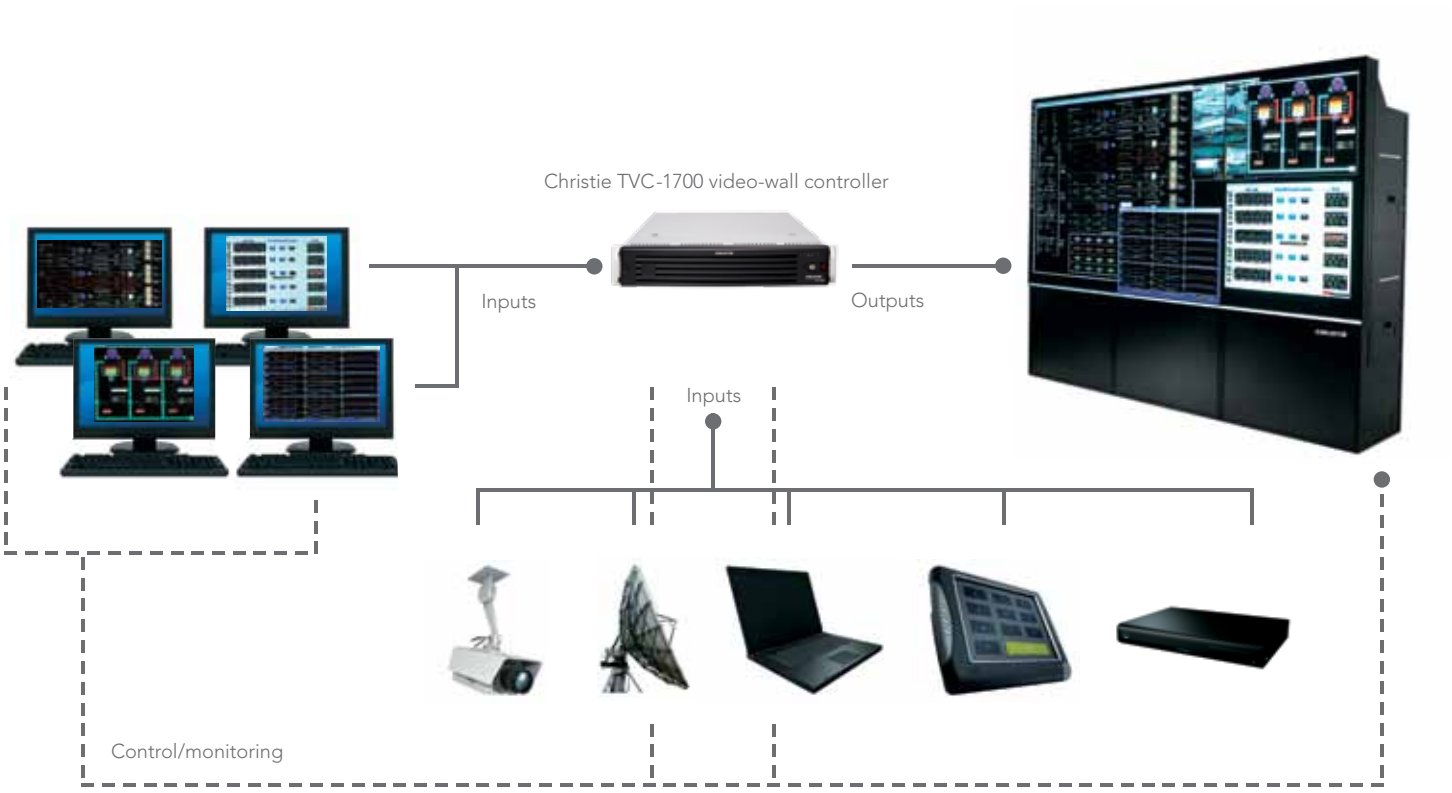
TVC-1700 specifications

		TVC-1700
Base hardware system	chassis	• 2U form factor
	CPU	• 2.4 GHz Quad-Core Xeon CPU
	operating system	• Windows 7 Ultimate (x64)
	memory	• 8GB DDR3 SDRAM, optional 32GB DDR3 SDRAM
	hard disk storage	• 1 x 1TB 3G SATA 7200RPM, optional 3 x 1TB 3G SATA 7200RPM hot-swappable redundant hard drive space (RAID 1 with hot spare)
	storage	• DVD/RW SATA Optical Drive
	networking	• 2 x Gigabit Ethernet, option for up to 6 Gigabit Ethernet interfaces
	interface	• Keyboard, mouse
	control	• 4 x USB 2.0 ports, 1 x RS-232 serial port video-wall control
Software	video-wall control	• Full-featured Christie MASTERSuite
Remote-desktop inputs	input	• RJ-45
	maximum # 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
	wall placement	• Anywhere on the video wall
Composite video inputs	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]	• 128 (simultaneous)
	advanced processing	• 3D comb filtering with advanced processing
	wall placement	• Anywhere on the video wall
RGB/DVI input expansion	maximum number of input sources per system[1]	• 48
	analog input connection type	• DVI-I (comes with VGA adapter)
	digital (DVI) input connection type	• DVI-I
	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
	form factor	• 64 bit
Display outputs	maximum number of display channels[1]	• 64
	maximum resolution/channel (analog)	• 2048 x 1536 @ 60Hz
	maximum resolution/channel (digital)	• 1920 x 1200 @ 60Hz
	graphics memory	• 512MB per card
Switch fabric expansion	form factor	• 4U
	number of expansion slots	• 9
	expansion chassis slot format	• PCI Express Gen2 x 4
	effective overall bandwidth	• 18GB/second per chassis, total system bandwidth of up to 54GB/s
	cooling	• Three chassis cooling fans
Dimensions	main chassis (2U)	• (LxWxH): 25.5 x 17.2 x 3.5" (648 x 437 x 89mm)
	Switch fabric expansion chassis (4RU)	• (LxWxH): 19.68 x 17.28 x 6.97" (500 x 439 x 177mm) not including faceplate or handles
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: 6A @ 110-127V, 3A @ 200-240V
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.

TVC-1700 specifications continued

	TVC-1700
Regulatory safety	• 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) 2002/95/EC (RoHS); 2002/96/EC (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	• 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 ISO9001and ISO14011
Warranty	• Limited two years parts and labor



▲ Christie's TVC-1700 network-based controllers drive and manage tiled display arrays with multiple input sources

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For the most current specification information, please visit www.christiedigital.com

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