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.

▲ Canada Post National Control Center, Ottawa, ON

◄ Christie TVC-700

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.

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.

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®

▲ Massachusetts Bay
Transportation Authority,
Boston, MA

▶ Christie MASTERSuite
software screen capture

Christie TVC-700
display wall processor

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

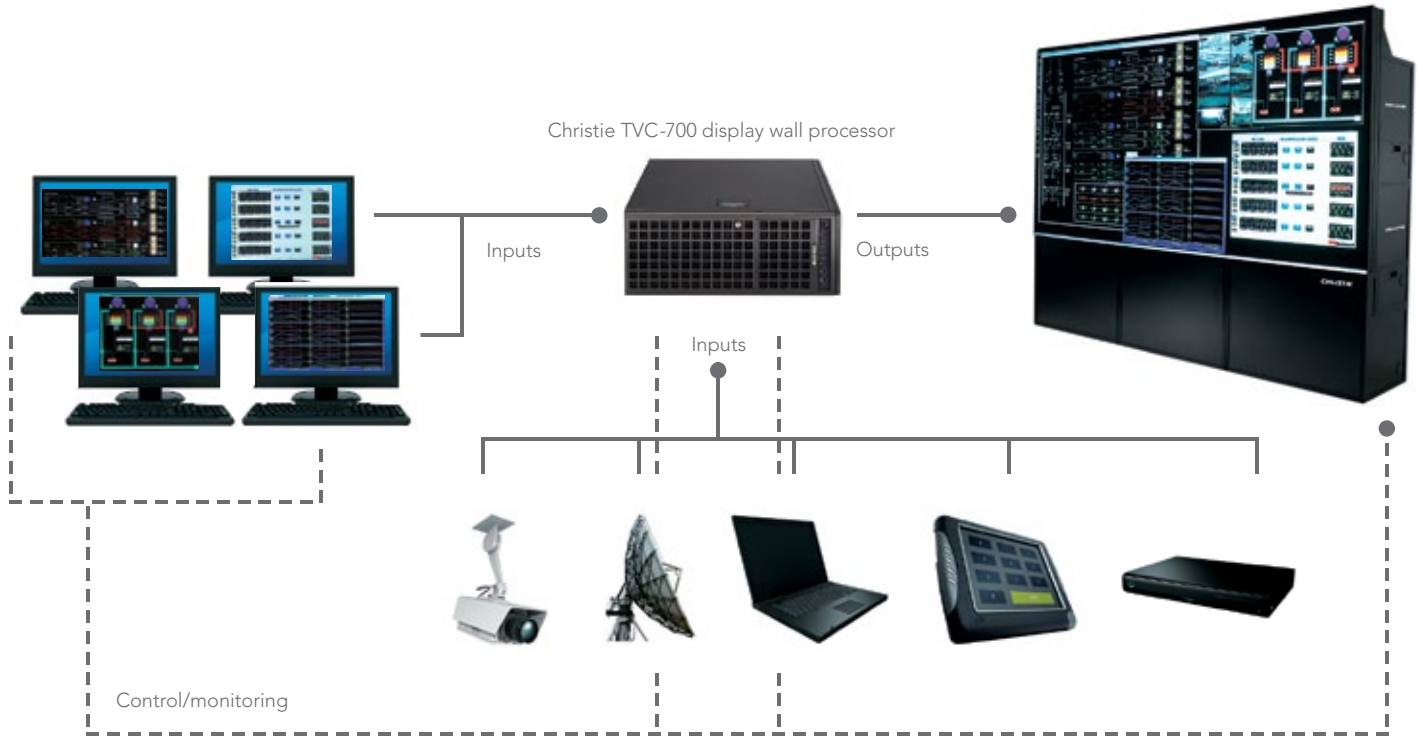| Media display features |
| --- |
| Display multiple media windows anywhere (local applications, RGB/DVI inputs, remote desktop clients, video) |
| Profiles for media-display windows |
| Desktop shortcuts |
| Secondary-backup channels |
| Media cropping, zooming, scaling |
| Window border, format controls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

TVC-700 specifications

		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
	control	• 4 x USB 2.0 ports, 1 x RS-232 serial port video-wall control
Software	operating system	• Microsoft Windows 7 Ultimate (x64)
	video-wall control	• Full-featured Christie MASTERSuite
Remote-desktop inputs	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
	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]	• 40 (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	• 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
	form factor	• 64-bit
Display outputs	maximum number of display channels	• 18 (3 cards)
	maximum resolution/channel (analog)	• 2048 x 1536 @ 60Hz
	maximum resolution/channel (digital)	• 4096 x 2160 @ 60Hz
	graphics memory	• 2GB per card
Optional accessories		• 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.

	TVC-1700
Regulatory safety	• CAN/CSA C22.2 No. 60950-1 • UL 60950-1 • IEC 60950-1emissions • 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 ISO9001 and ISO14011
Warranty	• Limited two years parts and labor

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Inputs

Outputs

Inputs

Control/monitoring

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

Certified System
ISO 9001
ISO 14001
Kitchener, Ontario

CHRISTIE®