



DISPLAY WALL CONTROLLERS

CATALOGUE 2010

powered by

CHRISTIE®





▲ TVC-1210 with expansion chassis



▲ Redundant hot swap power supply



▲ Redundant fan kit

Christie's TVC Series digital display wall controllers provide the performance, compatibility and versatility required for real-world 24/7 video wall applications. Whether your video wall includes only a few projection displays or a huge array of displays, Christie's TVC Series controllers provide extreme capability and flexibility to manage and display all the information you need to see, the way you want to see it.

The core of the TVC Series controller is based on the latest, proven computer server technology developed by Hewlett Packard – an industry leader in reliable, industrial-grade servers. With the HP server as the backbone of your video wall control system, you will be confident that the performance, quality, reliability and support of your system is the best that it can be. And being a network-based server platform operating under Microsoft® Server 2003 operating system, it allows your software applications to run smoothly and seamlessly on the display wall. Specialized internal software and hardware enable the tiled video wall displays to respond as one single ultra-high resolution Windows® desktop. Within the desktop, software applications, external videos, external computer outputs,

and client monitors may be displayed anywhere, any size – controlled at the wall and/or via networked remote clients.

The TVC-1100 is recommended for most 24/7 control room applications where a few video or RGB sources may be displayed. The TVC-1210 is recommended for 24/7 applications requiring highest quality multi-video performance and extremely fast RGB refresh performance.

Benefits

- Accepts multiple external video, RGB and client desktops for display anywhere, any size on the display wall
- Up to 16 real-time videos per display and ultra-high quality video processing on the TVC-1210
- Complete MASTERSuite™ wall management software with API included (eight languages supported)
- Exclusive browser-based Christie software allows control and wall monitoring from remote clients without need to install external software – multiple operating systems supported

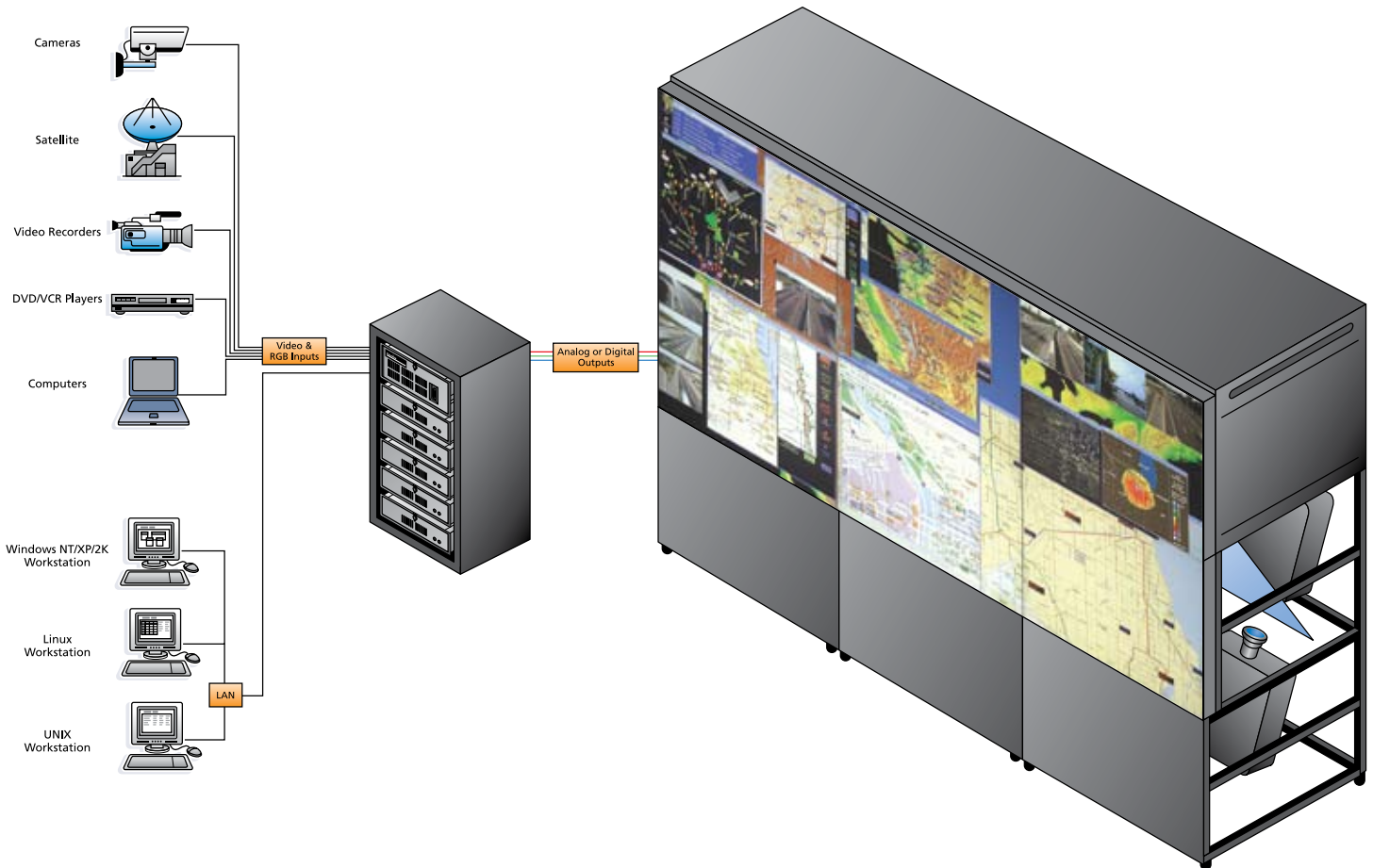
- Extensive server health and diagnostics monitoring through software interface and via email
- No additional site or seat licenses required
- No annual software maintenance fees
- Performance and redundancy options
- Expandable, supporting very small to very large tiled wall displays
- Excellent price/performance ratio
- 2 year warranty

Switch fabric architecture

The TVC-1210 includes optional Switch-Fabric Architecture. This feature provides a significant increase of PCI bandwidth which is best realized when multiple RGB input sources are included in the system configuration. Multiple RGB input sources may be simultaneously displayed across the display wall with very high refresh performance.

Display inputs

- Video
- RGB (DVI and VGA)
- Remote client workstations



		TVC-1100	TVC-1210	
Base chassis	Form factor	• 19" 5U industrial rack mount		
	Standard power	• One x 775W	• Two x 1000W, hot plug, redundant	
	Optional power	• Two x 775W, hot plug, redundant	• n/a	
	Standard cooling (total system fans)	• Three x, hot plug	• Four x, hot plug, redundant	
	Optional cooling (total system fans)	• Six x, hot plug, redundant	• n/a	
Processing	Standard CPU	• Dual-Core Intel® Xeon™ 2.80GHz/2M	• Quad-Core Intel® Xeon™ 1.6GHz (1066MHz 8MB L2 Cache)	
	Maximum CPUs	• Two	• One	
Memory	Type	• PC2-3200 SDRAM (DDR2, 400MHz)	• PC2-5300 FB-DIMMs (DDR2, 667MHz)	
	Standard capacity	• 1GB		
	Optional expansion	• Up to 2GB/4GB		
	Optional memory settings	• Online spare		
Software	Operating system	• Windows Server 2003 Standard Edition		
	Wall management software	• MASTERSuite™		
Hard drive storage	Type	• Hot plug Ultra320 SCSI	• Hot plug SAS	
	Standard capacity	• 73GB, 15K RPM		
	Upgrade options	• 73GB, 146GB, 300GB		
	Maximum drives	• Six		
	RAID support (0, 1, 1+0, 5, online spare)	• Optional	• Standard	
Other storage	DVD+RW 16x drive, Floppy drive	• Yes		
Networking	Type	• Gigabit Ethernet		
	Standard ports	• One		
	Upgrade options	• n/a	• Single-port PCI-X NIC upgrade	
		• Dual-port PCI-X NIC upgrade	• Single-port PCIe NIC upgrade	• Dual-port PCIe NIC upgrade
	Total maximum ports	• 11		
I/O Ports	USB (front & rear)	• One & two	• Two & two	
	PS/2	• Two		
	Serial	• Two		
	Parallel	• One		
Available slots	PCI-X	• Three x 64-bit / 100MHz	• One x 64-bit / 100MHz • One x 64-bit / 133MHz	
	PCI Express (x8 slots, x4 speeds)	• Two	• Three	
Display outputs	Max. display channels	• 40 ¹	• 64	
	Max. resolution/channel (analog)	• 1600 x 1200 @ 75Hz (2048 x 1536 @35Hz)	• 2048 x 1536 @ 60Hz	
	Max. resolution/channel (digital)	• 1400 x 1050 @ 60Hz (2048 x 1536 @30Hz)	• 1600 x 1200 @ 60Hz (2048 x 1536 @ 37Hz)	
	Graphics memory/channel	• 16MB	• 32MB	
	Video inputs supplied as standard	• One per display channel	• n/a	
Multi-video expansion	Maximum video sources/display channel	• 9 (maximum 36 videos per system)	• 16	
	Multiple display of unique sources	• No	• Yes	
	Digital video bus bandwidth	• 1Gb/s	• 5Gb/s	
	Overall video performance	• Good (quality may vary depending on number of videos and video position)	• Excellent (includes 3D comb filtering and advanced processing)	
	Input connections (BNC)	• For each 9-channel input card: 18 composite or 9 composite and 9 S-video	• For each 16-channel input card: 32 composite or 16 S-video input connections	
	Supported video 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 PAL, NTSC, SECAM		

¹ Max. 16 display channels if multiple videos/displays are required.

² HD/SD combinations per card: 0/8, 1/7, 2/6, 3/5, 4/4.

	TVC-1100	TVC-1210	
RGB/DVI Input Expansion	Maximum number of input sources per system	• 16	• 64
	Analog input connection type	• HD15 (VGA)	• DVI-I (c/w VGA adapter)
	Digital (DVI) input connection type	• n/a – analog only	• DVI-I
	Maximum analog resolution/source	• 1600 x 1200	• 2048 x 1536
	Maximum digital resolution/source	• n/a – analog only	• 1920 x 1080
	Support for non-interlaced sources	• No	• Yes
	Video capture memory	• 6 MB per channel	• 32 MB per channel
	Form factor	• 32 bit, PCI	• 64 bit, PCI-X
Standard PCI expansion	Form factor		• 6U
	Number of expansion slots		• 13
	Expansion chassis slot format		• 32-bit/33MHz PCI
	Effective overall bandwidth		• 1Gb/s
	Cooling		• Three chassis cooling fans
Switch fabric PCI-X expansion	Form factor	• n/a	• 6U
	Number of expansion slots	• n/a	• 16
	Expansion chassis slot format	• n/a	• 8 x 64-bit/66MHz PCI-X • 8 x 32-bit/66MHz PCI
	Effective overall bandwidth	• n/a	• 20Gb/s
	Cooling	• n/a	• Three chassis cooling fans • Four chassis extraction fans
Regulatory	Safety	• CAN/CSA C22.2 No. 60950-1-03 First edition	• UL 60950-1, First edition • IEC 60950-1:2001
	Emissions		• FCC CFR47, Part 15, Subpart B, Class A – unintentional radiators • CISPR 22: 2003 +A1:2004/EN55022: 1998 +A1:2000 +A2:2003, Class A – information technology equipment
	Immunity		• CISPR 24: 1997/EN55024: 1998 +A1:2001 +A2:2003 EMC requirements – information technology equipment
Environmental		• Operating temperature: 10 to +35°C (50 to +95°F)	• Relative humidity: 15-80% non-condensing
ISO		• Altitude: 0-3000 m (0-10,000 ft)	• RoHS compliant: yes
Warranty		• Manufactured in Christie's ISO9001 and ISO14001 facility	• 2 years parts and labor





Features

- Snapshot for automatic scenario creation
- Simple desktop sharing
- Text overlays
- Content capture
- Projector control
- Flexible scheduling
- Emergency management
- Hot keys
- Remote keyboard and mouse control
- Wall content display over IP (LiveView™)
- Interactive application control over IP
- Integrated MediaManager™ control
- Automatic input cycling
- Projector status and control
- System health monitoring
- Third-party device control
- Customized favorite scenarios panel
- Multi-platform client compatibility
- Full-featured API for custom development
- Four levels of security

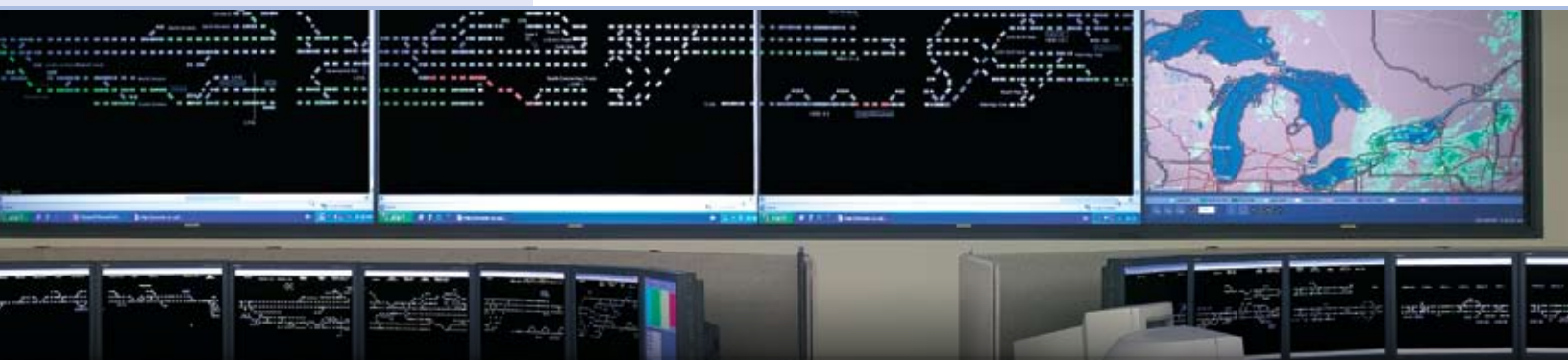
Christie TotalVIEW™ TVC Display Wall Controllers include Christie's full-featured MASTERSuite™ wall management software which provides the perfect blend of functionality and simplicity to enable maximum display wall control and management with a minimal learning curve. Enabling local and remote management of display wall content, Christie MASTERSuite™ requires simple client side installation with unlimited free client seats.

MASTERSuite™ wall management software

Christie MASTERSuite™ includes both MediaManager™ and WallManager™ components.

MediaManager™ is the ideal solution for users simply requiring management and control of media input sources connected to a TVC controller. MediaManager™ provides users with an intuitive interface for displaying and managing all media sources directly connected to the Christie TotalVIEW™ TVC controller. MediaManager™ enables users to freely size and position live video, RGB and remote desktop sources anywhere on the tiled display wall.

WallManager™ offers remote management capabilities or automation of routine tasks. WallManager™ provides users with multiple levels of control over the display wall content and the hardware found in a control room environment. In addition to the control of display wall applications and their layout, WallManager™ provides an integrated interface for the control and monitoring of Christie projectors and other third-party hardware devices. WallManager™ also provides users with multiple methods for both creating and launching custom wall scenarios. WallManager™ is the industry's only display wall management software available in 8 languages with client application support on the following operating systems: Windows™, UNIX™, Linux™ and Macintosh™. This provides global users with a consistent interface that is fully compatible with mixed platform environments.





◀ CN Rail Monitoring Center, Concord, Ontario (Applied Electronics, Ltd.)



The Spyder family of video processors offers a versatile videowall control solution in a compact, portable and rugged system, fully featured and user friendly. This comprehensive solution gives military, broadcast and government users the flexibility and control needed to create high-tech, high-quality tiled wall displays. The hardware architecture of the Spyder differs from the TVC series controllers as the TVC is PCI (computer) based and the Spyder incorporates a proprietary hardware pixel mapping architecture.

With uncompromised quality, an unprecedented number of hardware inputs can be displayed and scaled simultaneously at full refresh rates. The superior scaling and display qualities of the Spyder make it the video processor of choice for many broadcast and high-profile media applications.

Spyder supports digital and analog sources, such as RGB, DVI, HDSI and composite video. It can handle a variety of resolutions and aspect ratios, seamlessly displaying images at any size, anywhere. You can even control multiple pixel spaces and multiple display devices from the same control environment. As well, Spyder is a scaleable solution, which can grow to meet your changing application needs.

Aside from its superior video processing, the Spyder offers the true ability of presenting content exactly the way you want it. The Spyder gives you total control and flexibility through its intuitive SypderPoint software. You can create multiple Picture-in-Pictures (PIPs), define, shape and blend borders with remarkable ease. You can create transitional and timed effects, all without a hitch, every single time. You can also program and edit "on the fly" – which can be critical in the field.



Model	Description
213	1 input, 3 output processor
222	2 input, 2 output processor
231	3 input, 1 output processor
234	3 input, DX4 output processor
240	4 input expansion processor
204	4 out expansion processor
207	1 DX4 output, 3 standard inputs
326	2 input, 6 output processor
335	3 input, 5 output processor
3410	4 input, 2 outputs, 2 DX4 outputs
344	4 input, 4 output processor
353	5 input, 3 output processor
359	5 input, 1 output, 2 DX4 outputs
362	6 input, 2 output processor
371	7 input, 1 output processor
380	8 input expansion processor
308	8 out expansion processor
374	7 input, DX4 output
365	6 input, DX4 output, 1 output
368	6 input, 2 DX4 outputs





Christie recognizes that control room and tiled wall displays can be a significant and critical investment for our customers. Renowned for industry-leading support and service around the world, Christie ensures that customers are well supported with training, service and technical support through our extensive distribution and support network.

Service and support

Christie offers a full 2 year warranty on all TotalVIEW™ control room display products*. With extended and international warranties available our solutions are backed by Christie's industry-famous after-sales support – second to none.

- Christie's purpose-built 24/7 design features >5 years usable lifetime.
- Full 2 year parts and labor warranty for all TotalVIEW™ products described here (excluding lamps and optional accessories).
- Service parts and support for 5 years following product discontinuation.
- The best pro-rated lamp warranty in the industry – applies to original lamps and service replacement lamps. Worry free lamp replacement program also available.

- Modular construction for fast and easy servicing (<15 minutes MTTR).
- Quick lamp change in less than 5 minutes.
- Sealed optical designs and efficient cooling system for ensured long-term performance and reliability.
- Extensive diagnostic and monitoring features and capabilities with messaging via 2 x 7 segment LED display, serial RS-232 network and Ethernet network.
- Christie's famous after-sales support.

Managed services

Christie draws upon 75 years of experience working with Fortune 1000 companies to deliver a portfolio of proven, reliable, managed services to support its customers' hardware and software assets. Services can vary from consultation, site preparation and implementation to help desk services, remote monitoring and control, preventative servicing, trade show support and training.

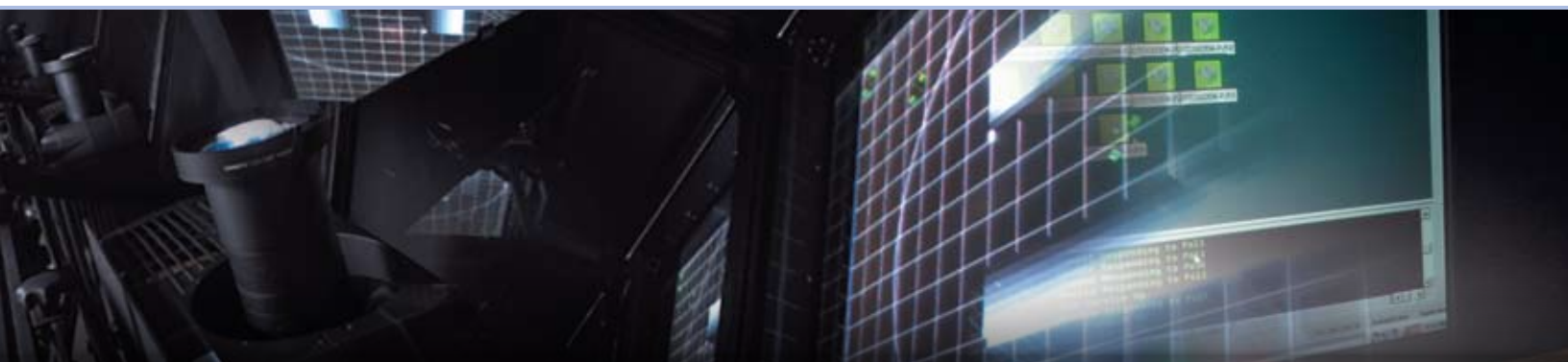
Environmental policy

We recognize our responsibility to control impacts on the environment from our business activities, products and services. We are fully committed to environmentally friendly solutions for current and future generations and to meet or exceed applicable laws, regulations and organizational objectives. As an industry leader, we are committed to prevention of pollution and continual improvement through implementation of our environmental management system. ISO 14001 Certified USA and Canada.

Lamp supply

Christie also offers a lamp maintenance program which provides peace of mind for lamp maintenance and budgeting. Under the program, one annual fee provides the customer with a sufficient stock of spare lamps and free lamp replacements following lamp failure.

* Excludes lamps and optional projector accessories.



Extended warranty

Christie offers a benchmark for confidence in our solutions with a standard 2 years parts and labor warranty on our TotalVIEW™ products. Customers can purchase 3, 4 and 5 year extended warranties for continued confidence and reliability. And, that same excellent support continues after the life of the product – Christie provides services and parts support for a minimum of 5 years after any product model discontinuation.

Programs

Operation and maintenance of Christie TotalVIEW™ Control Room rear projection display products is easy. Replacement lamp costs are low and Christie offers the best warranties on the market.



COMPANY PROFILE



Space Vision was founded in October 2002 by a team of engineers and businessmen with vast experience in the area of electronics and audiovisual systems. The main goal of the company's founders was the creation of a flexible and dynamic enterprise, which would bring a new era in the field of the audiovisual solutions in Greece.

Since its foundation, our company has established a high reputation over the years, by implementing medium and large-scale projects and has managed to hold one of the highest positions in the area of AudioVisual Integrators in the Greek Market.

The company's activities vary from the trade, installation and engineering of audiovisual systems to the implementation of turnkey projects.

Today, the name of Space Vision stands out in hundreds of high-tech installations in cinemas, studios, classrooms, meeting rooms, auditoriums, convention centers, theaters and museums across a broad spectrum of public and private organizations and agencies all over Greece.



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