

CONTROLVIEW™ XHD

Automated PTZ Camera Controller with HD, RGBHV and SD Video Switching, Video Transitions and Camera Preset Trigger Functionality

Vaddio introduces the ControlVIEW XHD, a multi-input PTZ camera control system designed for a variety of presenter-controlled applications in conjunction with our preset camera trigger devices such as StepVIEW mats, AutoVIEW IR sensors, MicVIEW and TouchVIEW. In addition, the ControlVIEW XHD can be a stand-alone video switcher or used with our Precision Camera Controller.



Figure 1: ControlVIEW XHD Camera Control System

When configured with input trigger devices (up to 72 trigger devices), ControlVIEW XHD can automate a classroom, allowing an instructor to move about a classroom, and switch up to six cameras as the instructor moves from one trigger to another. Camera transitions can either be a cut, fade or one of a variety of wipes. First step, last step or multi-step allows video switching and preset camera shots based on the trigger device(s) that are enabled at the same time.

The system's multi-format 6 x 1 switcher accepts any combination of input signals from HD component (1080p, 1080i or 720p) or SD (Y-C or composite) video and RGBHV (up to UXGA resolutions). All inputs can be scaled up or down to a single resolution (select from HD, SD or RGBHV up to WUXGA) on dual outputs. PTZ cameras that are compatible with ControlVIEW XHD include Vaddio, Sony®, Panasonic® and Canon®.

ControlVIEW XHD is the ideal presenter camera control system for a variety of applications, including houses of worship, local government, live event production and other situations where high definition video is required.

WHAT'S INCLUDED

The Vaddio ControlVIEW XHD includes the following items:

- ControlVIEW XHD
- IR Remote Control
- PowerRite™ 18 VDC Power Supply
- AC Cord Set
- Documentation

Six Port Video Switcher

A six port seamless video switcher is built into ControlVIEW XHD. The output can be automatically switched by preset trigger devices, manually switched via buttons on the front panel, by the supplied IR remote control or through a third-party control system. Transitions (cut, fade or a variety of wipes) can be selected to switch between inputs.

TECHNICAL FEATURES

72 Camera Presets

ControlVIEW XHD can store up to 72 camera presets from up to six PTZ cameras. Any combination of presets can be assigned as needed between the six cameras, allowing for maximum flexibility of the system.

Transitions

Select from either cut, cross fade or a variety of wipes when switching between inputs.

PTZ Camera Compatibility

A variety of integrated robotic PTZ cameras from Vaddio, Panasonic, Sony and Canon are compatible with the ControlVIEW XHD. A maximum of six cameras can be connected to ControlVIEW XHD.

Optional Trigger Devices

Choose from a variety of optional trigger devices that Vaddio offers, including: StepVIEW Mats, AutoVIEW IR Sensors, MicVIEW and TouchVIEW.

Link Ports

Connect the ProductionVIEW Precision Camera Controller directly to ControlVIEW XHD utilizing the Link Ports (see Figure 6). This combination provides an entry-level HD switcher and camera control system.

Network Port *

ControlVIEW XHD comes with a 10/100 Network port. Connect your XHD to IP networks for remote troubleshooting.

* Available in a future software release

Master RS-232 Control Port

The master control port allows connection to third-party control systems (AMX®, Crestron®, etc.) for complete access to the internal functions of the ControlVIEW XHD.

Compatible Cameras

The ControlVIEW XHD is capable of identifying by auto-sensing each PTZ camera attached. Control codes for the following cameras are built-in:

- Vaddio WallVIEW™ Series Cameras
- Vaddio CeilingVIEW™ Series Cameras
- Vaddio HideAway™ Series Cameras
- Vaddio ClearVIEW HD-18 Camera
- Sony EVI & BRC Series of Cameras
- Panasonic AW-HE100
- Canon VC-C50i & VC-C50iR

Vaddio Part Numbers

- 999-5672-000** - ControlVIEW XHD (NTSC)
- 999-5672-001** - ControlVIEW XHD (PAL)

Figure 2: Optional SD Accessory Cable (Y-C & Composite)



Figure 3: Optional HD Accessory Cable (7inch, 3 or 6 foot length)

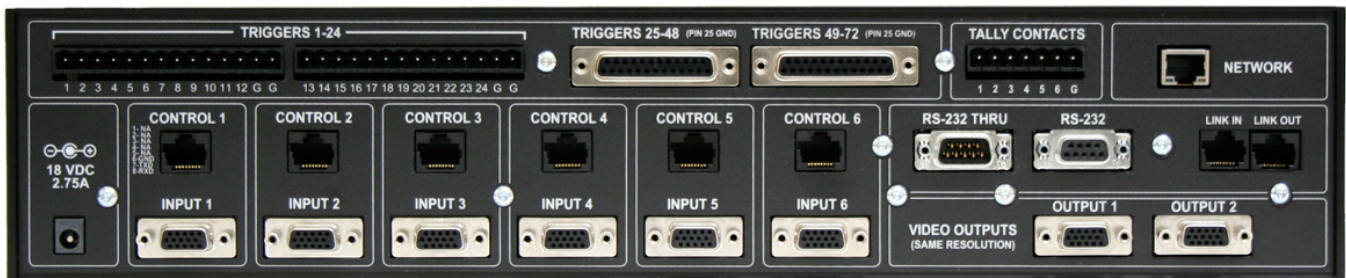


Vaddio Accessory Cables

- 440-5600-000** – 15-pin to SD (Y-C / CVBS) breakout cable (female BNCs – 1 foot)
- 440-5600-001** – 15-pin to HD Component (YPbPr/RGBHV) breakout cable (male BNCs – 3 foot)
- 440-5600-002** – 15-pin to HD Component (YPbPr/RGBHV) breakout cable (male BNCs – 6 foot)
- 440-5600-003** – 15-pin to HD Component (YPbPr/RGBHV) breakout cable (female BNCs – 7 inch)

Figure 4:

Back panel of ControlVIEW XHD, showing input/output ports.



TECHNICAL SPECIFICATIONS

Input Video Resolutions			
HD Resolutions: 1080p 59.94 * 1080p 50 * 1080i 59.94 1080i 50 720p 59.94 720p 50	RGBHV Resolutions**: 640 x 480 @ 60Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1280 x 720 @ 60Hz 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1366 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+ 1600 x 1200 @ 60Hz - UXGA	H. Freq (kHz)	Pixel Clock (MHz)
		31.5	27.175
		37.879	40
		48.363	65
		60.023	78.750
		47.776	79.5
SD Resolutions: 480i - Composite, Y/C or YPbPr 576i - Composite, Y/C or YPbPr	63.981	108	
	47.775	67.43	
	65.359	115	
	75	162	

Output Video Resolutions			
HD Resolutions: 1080p 59.94 * 1080p 50 * 1080i 59.94 1080i 50 720p 59.94 720p 50	RGBHV Resolutions**: 640 x 480 @ 60Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1280 x 720 @ 60Hz 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1366 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+ 1600 x 1200 @ 60Hz - UXGA	H. Freq (kHz)	Pixel Clock (MHz)
		31.5	27.175
		37.879	40
		48.363	65
		60.023	78.750
		47.776	79.5
SD Resolutions: 480i NTSC - Composite or Y/C 576i PAL - Composite or Y/C	63.981	108	
	47.775	67.43	
	65.359	115	
	75	162	
	1920 x 1200 @60 HZ – WUXGA***	74.038	154

* Support of 1080p component video (YPbPr) required on third-party equipment

** Certain equipment may not supply appropriate resolutions, and therefore may not function properly

***With reduced blanking (with monitor support on VGA input)

ControlVIEW XHD	
Part Numbers:	999-5672-000 (North America) 999-5672-001 (International)
Compatible Cameras:	Vaddio, Panasonic, Sony & Canon (see page 2 for specific cameras)
Video Formats Supported:	NTSC or PAL
Video Switcher:	6 x 1
Video Transitions:	Cross Fade, 11 Wipe options and Straight Cuts, Fade to Black
Video Inputs:	Six (6) RGBHV, HD Component (YPbPr), or Y-C & Composite (DB-15HD)
Program Output:	Two (2) Program outputs – same resolution – (DB-15HD) -- Y-C & Composite, Component HD (YPbPr) or RGBHV
Camera Control Ports:	Six (6) RS-232 on RJ-45F
Control Interface:	Two (2) RS-232 on DB-9 (one input, one loop output)
LCD Display:	8 – line backlit LCD display
Power Requirements:	PowerRite 18 VDC, 2.78 Amp
Triggers:	72 presets on up to six PTZ cameras
Tally Output:	Tally outputs for each of the six video inputs
Weight:	6.5 lbs. (2.95kg) – approximate weight
Dimensions (H x W x D):	3.5" (8.9cm) x 16.75" (42.55cm) x 10" (25.4cm)

SYSTEM CONNECTIVITY

Figure 5: ControlVIEW XHD, with HD, SD and RGBHV inputs and MicVIEW system, integrated with TrackVIEW 70.

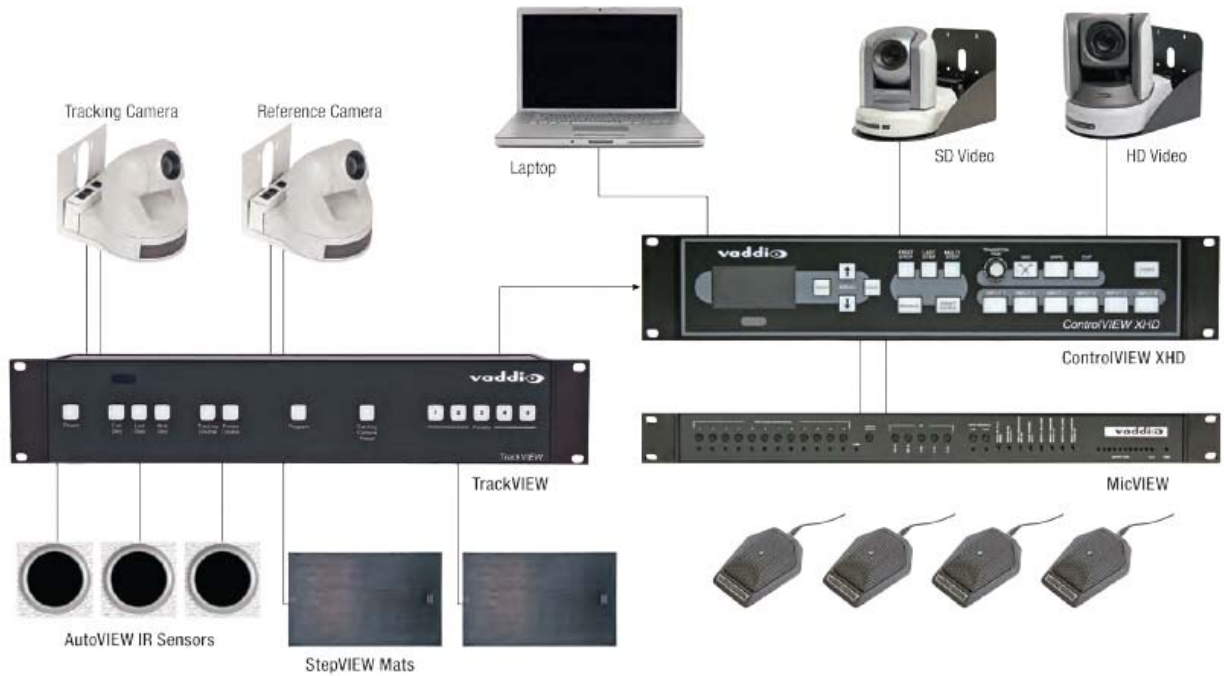


Figure 6 & 7: Figure 6 (left), showing ControlVIEW XHD with Precision Camera Controller, HD cameras and a laptop connected. Figure 7 (right), showing ControlVIEW XHD integrated with a videoconference codec, StepVIEW, AutoVIEW IR and MicVIEW triggers.

