

TECH SPEC

PRODUCTIONVIEWTM HD MV

HD Camera Control Console with Multiviewer, Analog and Digital Outputs, Camera Preset Video Thumbnails and Optional TeleTouch[™] Multiviewer Touch Screen Control Monitor

The Vaddio ProductionVIEW[™] HD MV production switcher with integrated camera controller and multiviewer is a powerful, cost effective intuitive platform for live presentation environments.

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REDEFINING CAMERA CONTROL

Adding the optional Vaddio TeleTouch™ Multiviewer Touch Screen Control Monitor provides live video switching with the touch of your finger!

The ProductionVIEW HD MV is a broadcast quality 6 x 2 multi-format, seamless video mixer that also provides two discrete outputs for dual bus program feeds (two independent 6 x 1 switchers/mixers).



It also includes a broadcast style 3-Axis/1-Button Hall Effect Joystick with twist-handle Zoom Control as well as separate Pan, Tilt and Speed Control Knobs. Cuts, Dissolves and Wipes can be achieved through user-selectable buttons built into the control surface. A new Lower Screen Graphic (LSG) function allows users to overlay their computer graphics onto the program video output. Analog and digital HD video resolutions up to and including 1080p/60fps are supported by the ProductionVIEW HD MV (see Technical Specifications).

ProductionVIEW HD MV is the ideal HD switcher and camera control system for a wide variety of video applications, including houses of worship, local government and live event production.



Optional TeleTouch Multiviewer Touch Screen Control Monitor

See, Touch and Switch

With Vaddio's revolutionary TeleTouch Multiviewer Touch Screen Control Monitor, video production operators can easily see and switch all live feeds and create "video thumbnails" of preset camera shots.

Eliminates individual preview monitors

The TeleTouch Multiviewer Touch Screen Control Monitor displays up to six preview monitors and allows the camera operator to see and switch all the live video feeds by simply touching the windows that they want controlled.

Each camera input can have up to 12 stored "video thumbnails" of each preset camera shot. The video thumbnails provide an easy way to identify and recall preset camera positions on a per input basis in the preview window, which greatly simplifies overall console operation.

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The ProductionVIEW HD MV includes the following items:

- ProductionVIEW HD MV Camera Control Console with Multiviewer Capability
- 18 VDC PowerRite[™] Power Supply with AC Power Cord
- Documentation

Optional TeleTouch Multiviewer Touch Screen Control Monitors are available in two sizes:



18.5" Rack Mount Multiviewer Touch Screen (P/N 999-5520-185)



22" Standard Multiviewer Touch Screen w/base (P/N 999-5520-022)

TECHNICAL FEATURES

3-Axis Hall-Effect Joystick

The improved Hall-Effect joystick includes larger handle for better grip, along with a button that moves the PTZ camera to its home position when pressed.

Lower Screen Graphic

Users can overlay their computer graphics onto the program video output. A variety of sizes and transparency levels are available through buttons on the console.

Six Auto-Configuring RS-232 PTZ Control Ports

ProductionVIEW HD MV has six (6) discrete PTZ control ports that eliminate the need to daisy chain control cabling. The ProductionVIEW HD MV Controller is capable of auto-sensing each camera attached including Vaddio, Sony®, Panasonic® and Canon® (see manual for complete camera compatibility list).

TECHNICAL IMAGES



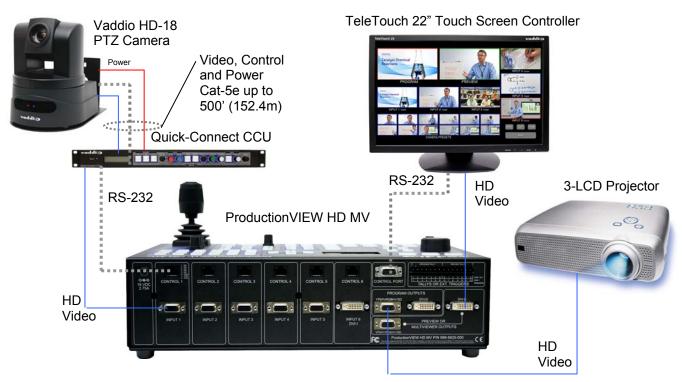
ProductionVIEW HD MV Back Panel I/O Connectors (Left to Right):

- 1) Power: 18VDC, 2.75A 5.5mm OD x 2.5mm ID (positive center)
- 2) Inputs 1-5: RJ-45F for Camera RS-232 and DE-15F (HD-15F) for Analog HD, SD and RGBHV Video
- 3) Input 6: RJ-45F for Camera RS-232 and DVI-I Connector for RGBHV, DVI-D or HDMI w/o copy protect
- 4) Preview or Multiviewer Out: DE-15F for Analog Video, DVI-D connector for DVI-D or HDMI w/o copy protect
- 5) Program Out: DE-15F for Analog Video, DVI-D connector for DVI-D or HDMI w/o copy protect,
- 6) Control Port: On DE-9F (DB-9F)
- 7) Tally/Triggers: On 5mm Molex Euro Connectors



Basic System Configuration:

ProductionVIEW HD MV connected to HD-18 with CCU System and TeleTouch 22" Touch Screen Controller.



TECHNICAL SPECIFICATIONS

ProductionVIEW HD MV	
Part Numbers:	999-5625-000 (NTSC)
	999-5625-001 (PAL)
Compatible Cameras:	Vaddio, Panasonic, Sony & Canon (See Manual for Specific Models)
Video Formats Supported:	NTSC and PAL
Video Switcher:	6 x 2 (or Two 6x1 in Dual Mode)
Video Transitions:	Cross Fade, 9 Wipe options and Straight Cuts, Fade to Black
Video Inputs:	Five (5) DE-15-F: RGBHV, HD Component (YPbPr), or Y/C & Composite using adapter cables One (1) DVI-I (both DVI-D and DVI-A): HDMI 1.3 Receiver, Compliant with DVI 1.0 and HDMI 1.3
Preview or Multiviewer Output:	One (1) DE-15-F Preview or Multiviewer Output: RGBHV, HD Component (YPbPr), or Y/C & Composite using adapter cables One (1) DVI-D Preview or Multiviewer Output: HDMI 1.3 Transmitters, Compliant with DVI 1.0 and HDMI 1.3 Note: Same resolution on both Preview outputs
Program Output:	One (1) DE-15-F Program Output: RGBHV, HD Component (YPbPr), or Y/C & Composite using adapter cables One (1) DVI-D) Program Output: HDMI 1.3 Transmitters, Compliant with DVI 1.0 and HDMI 1.3 Note: Same resolution on both Program outputs
Camera Control Ports:	Six (6) RS-232 on RJ-45F
Control Interface:	One (1) RS-232 on DB-9
LCD Display:	8-line backlit LCD display
Power Requirements:	PowerRite 18 VDC, 2.78 Amp
Control Inputs for Auto Mode (input 1 & 2):	Cameras 1 & 2 have 6 presets each or Camera 1 can have 12
Tally Output:	Tally outputs for each of the six video inputs
Weight:	9.5 lbs. (4.32kg) – approximate weight
Dimensions (H x W x D):	4" (10.16cm) x 16" (40.64cm) x 10" (25.4cm)
Optional TeleTouch Multiviewer Touch Screen Monitors:	999-5520-185 - 18.5" Rack Mount TeleTouch Multiviewer Touch Screen Monitor 999-5520-022 - 22" TeleTouch Multiviewer Touch Screen Monitor with Base
Optional SD (Y/C and CVBS) Adapter Cables:	440-5600-000 - DE-15M to 3-BNC-M (Y/C and CVBS) - 12" (304.8mm)



ProductionVIEW HD MV Resolution Tables:

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In	nut '	Video	Reso	lutions
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HD Resolutions: 1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 *	RGBHV Resolutions**: 640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz	H. Freq (kHz) 31.5 37.5 37.879 48.363 60.023 47.776	Pixel Clock (MHz) 27.175 31.5 40 65 78.750 79.5
SD Resolutions Inputs 1-5: SD NTSC: 720 x 480 Component, Composite and S-Video SD PAL: 720 x 576 Component, Composite and S-Video	1280 x 1024 @ 60Hz - SXGA 1360 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+ 1600 x 1200 @ 60Hz - UXGA	63.981 47.775 65.359 75	108 67.43 115 162
	Input 6 DVI-I Additional Resolutions**:	44.050	00 7 5
SD Input 6 DVI-I Port supports: SD NTSC: 720 x 480 Component SD PAL: 720 x 576 Component	1152 x 720 @ 60Hz 1280 x 720 @ 60Hz 1440 x 900 @ 60Hz 1920 x 1200 @ 60Hz	44.859 44.772 55.935 74.038	66.75 74.25 106.50 154

Program Output Video Re					
HD Resolutions:	RGBHV Resolutions**:	H. Freq (kHz)	Pixel Clock (MHz)		
1080i 59.94	640 x 480 @ 60Hz - VGA	31.5	27.175		
1080i 50	640 x 480 @ 75Hz - VGA	37.5	31.5		
720p 59.94	800 x 600 @ 60Hz - SVGA	37.879	40		
720p 50	1024 x 768 @ 60Hz - XGA	48.363	65		
1080p 59.94 *	1024 x 768 @ 75Hz - XGA	60.023	78.750		
1080p 50 *	1280 x 768 @ 60Hz	47.776	79.5		
	1280 x 1024 @ 60Hz - SXGA	63.981	108		
	1360 x 768 @ 60Hz - WXGA	41.571	74		
SD Resolutions:	1400 x 1050 @ 60Hz - SXGA+	65.340	121.75		
480i x 29.97Hz	1600 x 1200 @ 60Hz - UXGA	75	162		
576i x 25Hz	1920 x 1200 @60 HZ – WUXGA***	* 74.038	154		
	***With reduced blanking (with monitor	***With reduced blanking (with monitor support on VGA input)			
Preview/Multiviewer Outpu	It Video Bosolutions				
UD Decelutions:					
HD Resolutions:					
1080i 59.94	PCPHV Possiutions**		Divel Cleak (MHz)		
1080i 59.94 1080i 50	RGBHV Resolutions**:	H. Freq (kHz)	Pixel Clock (MHz)		
1080i 59.94 1080i 50 720p 59.94	640 x 480 @ 60Hz - VGA	31.5	27.175		
1080i 59.94 1080i 50 720p 59.94 720p 50	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA	31.5 37.5	27.175 31.5		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 *	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA	31.5 37.5 37.879	27.175 31.5 40		
1080i 59.94 1080i 50 720p 59.94 720p 50	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA	31.5 37.5 37.879 48.363	27.175 31.5 40 65		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 *	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA	31.5 37.5 37.879 48.363 60.023	27.175 31.5 40 65 78.750		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * SD Resolutions:	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz	31.5 37.5 37.879 48.363 60.023 47.776	27.175 31.5 40 65 78.750 79.5		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * <u>SD Resolutions:</u> 480i x 29.97Hz	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA	31.5 37.5 37.879 48.363 60.023 47.776 63.981	27.175 31.5 40 65 78.750 79.5 108		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * SD Resolutions:	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1360 x 768 @ 60Hz - WXGA	31.5 37.5 37.879 48.363 60.023 47.776 63.981 41.571	27.175 31.5 40 65 78.750 79.5 108 74		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * <u>SD Resolutions:</u> 480i x 29.97Hz 576i x 25Hz	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1360 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+	31.5 37.5 37.879 48.363 60.023 47.776 63.981 41.571 65.340	27.175 31.5 40 65 78.750 79.5 108 74 121.75		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * <u>SD Resolutions:</u> 480i x 29.97Hz 576i x 25Hz <u>Multiviewer Resolutions:</u>	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1360 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+ 1600 x 1200 @ 60Hz - UXGA	31.5 37.5 37.879 48.363 60.023 47.776 63.981 41.571 65.340 75	27.175 31.5 40 65 78.750 79.5 108 74 121.75 162		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * <u>SD Resolutions:</u> 480i x 29.97Hz 576i x 25Hz <u>Multiviewer Resolutions:</u> 1080p 59.94 *	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1360 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+ 1600 x 1200 @ 60Hz - UXGA 1920 x 1200 @60 HZ – WUXGA***	31.5 37.5 37.879 48.363 60.023 47.776 63.981 41.571 65.340 75 * 74.038	27.175 31.5 40 65 78.750 79.5 108 74 121.75 162 154		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * <u>SD Resolutions:</u> 480i x 29.97Hz 576i x 25Hz <u>Multiviewer Resolutions:</u> 1080p 59.94 * 1080p 50 *	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1360 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+ 1600 x 1200 @ 60Hz - UXGA	31.5 37.5 37.879 48.363 60.023 47.776 63.981 41.571 65.340 75 * 74.038	27.175 31.5 40 65 78.750 79.5 108 74 121.75 162 154		
1080i 59.94 1080i 50 720p 59.94 720p 50 1080p 59.94 * 1080p 50 * <u>SD Resolutions:</u> 480i x 29.97Hz 576i x 25Hz <u>Multiviewer Resolutions:</u> 1080p 59.94 *	640 x 480 @ 60Hz - VGA 640 x 480 @ 75Hz - VGA 800 x 600 @ 60Hz - SVGA 1024 x 768 @ 60Hz - XGA 1024 x 768 @ 75Hz - XGA 1280 x 768 @ 60Hz 1280 x 1024 @ 60Hz - SXGA 1360 x 768 @ 60Hz - WXGA 1400 x 1050 @ 60Hz - SXGA+ 1600 x 1200 @ 60Hz - UXGA 1920 x 1200 @60 HZ – WUXGA***	31.5 37.5 37.879 48.363 60.023 47.776 63.981 41.571 65.340 75 * 74.038	27.175 31.5 40 65 78.750 79.5 108 74 121.75 162 154		



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