

# CLEARVIEW™ HD-18

## High-Definition Integrated Robotic PTZ Camera

With the ClearVIEW HD-18 integrated robotic PTZ camera, Vaddio continues to redefine image control. The camera is built around a 1.3 megapixel, 1/3" CCD with an 18x optical zoom lens, making it the ideal choice for a wide range of high definition video applications. In addition to the component HD output (720p, 1080i or 1080p), the camera comes with a simultaneous composite SD output (NTSC or PAL).

Because the camera is built around a CCD image sensor, the HD-18 is excellent in low-light situations, with a 1.8 lux rating. In addition, the video signal to noise ratio output of the camera is greater than 50dB, delivering clean, clear video.

The 7-element wide dynamic zoom lens allows ClearVIEW HD-18 to capture a wide angle of view (55.2°) enough to view everyone at a conference room table, as well as capture an individual from a long distance (3.2°). The zoom range provides greater flexibility for a wide variety of applications.

Pan range is +170 to -170 degrees, and Tilt range is -30 to +90 degrees. The camera is also invertible for ceiling-mount applications. A variety of accessories are available, allowing the camera to be installed in a variety of projects.

The ClearVIEW HD-18 is an exceptional camera for a wide range of high definition shooting applications, such as houses of worship, corporate boardrooms, live event production and distance-learning.



Figure 1: Front of ClearVIEW HD-18

## WHAT'S INCLUDED

- Vaddio ClearVIEW HD-18 HD PTZ Camera
- IR Remote
- RJ-45 to DB-9 Adapter
- 12V PowerRite™ Power Supply
- Documentation

## TECHNICAL FEATURES

### 1/3" CCD

The 1.3 megapixel CCD image sensor provides brilliant light gathering capability, providing excellent image reproduction.

### Wide Dynamic Zoom

A multi-element 18x optical wide dynamic zoom lens provides great zoom range (3.2° in telephoto), along with a wide view (55.2° in wide) when zoomed out.

### 1080p, 1080i or 720p Output

ClearVIEW HD-18 provides three component HD output resolution options, for use with a greater variety of equipment on the market.

### Simultaneous SD Output

Along with a choice of component HD output resolutions; there is a simultaneous composite SD output on the back of the camera. The SD output provides the option of sending an SD signal to either a low-cost SD monitor, or other peripheral equipment in letterbox, crop or squeeze.

### Precision Motors

High-torque, micro stepper motors provide smooth and precise panning and tilting of the camera. Recalled preset camera positions are accurate across the entire range of pan and tilt.

### Easy Integration

From the variety of HD resolutions, to the RJ-45 connector for RS-232, to the use of VISCA protocol, the ClearVIEW HD-18 is easily integrated for use with videoconference codecs, control systems such as AMX® and Crestron®, and the camera is compatible with Vaddio's ProductionVIEW HD, ControlVIEW XHD and Precision Camera Controller.

## TECHNICAL FEATURES (CONTINUED)

### Invertible

The added benefit of utilizing micro-stepper motors is that the camera can be inverted. This provides a greater range of installation options.

### Accessories

A variety of accessories are available for the ClearVIEW HD-18, including WallVIEW systems, mounts, adapters and cables.

### EZ-Port

Vaddio's unique EZ-Port Power/Video RJ-45 connector, integrated into the back of the camera, sends power out to the camera up to 100 feet, and returns component HD video back to the optional Quick-Connect SR (see the WallVIEW HD-18 system).

### Part Numbers

999-6900-000 ClearVIEW HD-18 (North America)  
999-6900-001 ClearVIEW HD-18 (International)

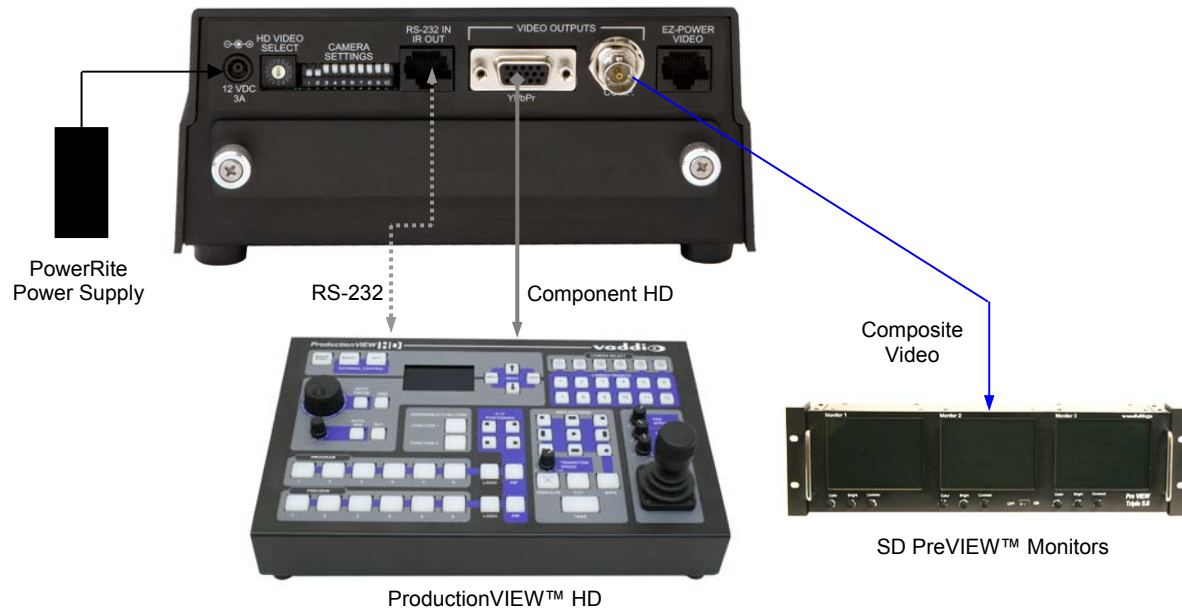
## TECHNICAL IMAGES

**Figure 2:** ClearVIEW HD-18 front and rear diagrams with functional callouts.

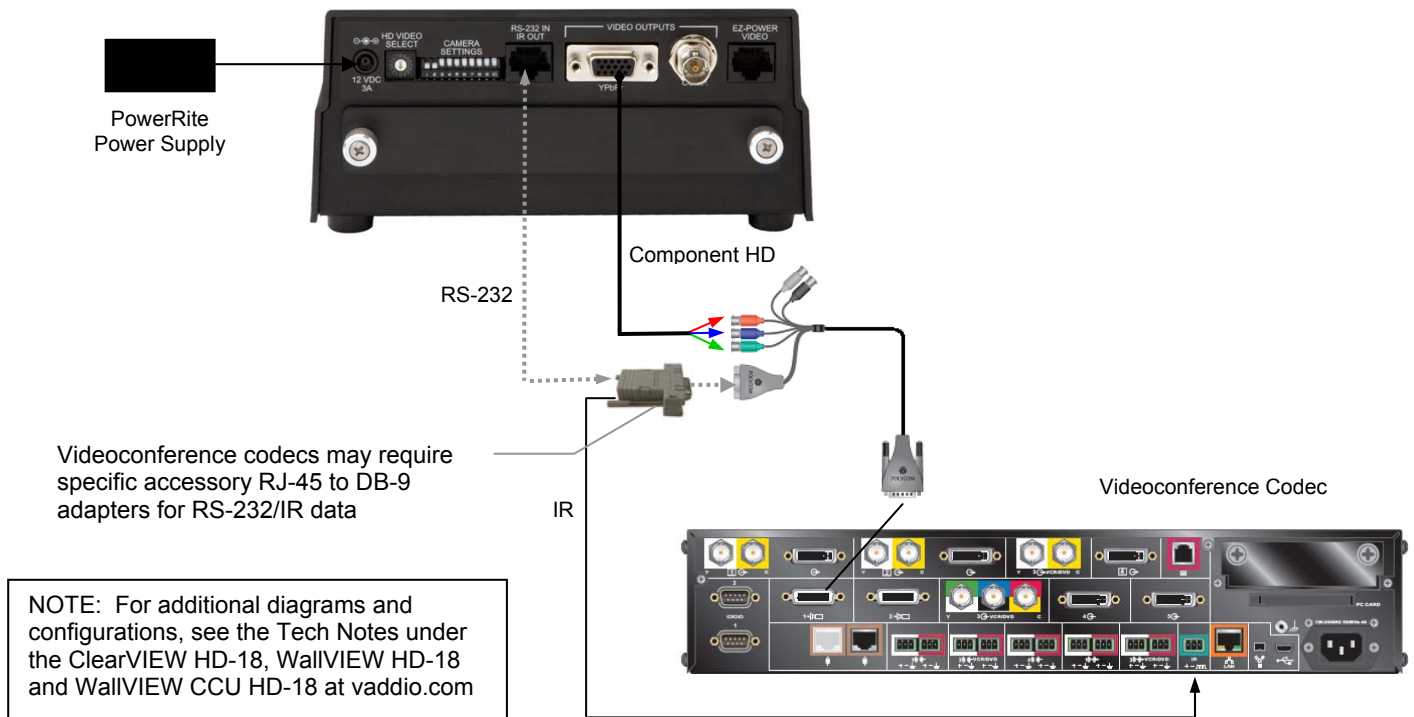


## SYSTEM CONNECTIVITY

**Figure 3:**  
Basic system connectivity of a ClearVIEW HD-18 to a ProductionVIEW HD



**Figure 4:**  
Basic system connectivity of a ClearVIEW HD-18 to a Polycom HDX 9004 Codec as primary camera, with IR forwarding through HD-18



## TECHNICAL SPECIFICATIONS

ClearVIEW HD-18	
<b>Part Numbers</b>	ClearVIEW HD-18 999-6900-000 (North America) ClearVIEW HD-18 999-6900-001 (International)
• Vaddio ClearVIEW HD-18	
<b>Image Device</b>	1/3" CCD
<b>Picture Elements</b>	1.3 Megapixels
<b>Signal System</b>	HD: 1080p, 1080i or 720p @ 59.94; 1080p @ 60; 1080p, 1080i or 720p @ 50 SD: Composite NTSC or PAL (simultaneous with HD output)
<b>Lens</b>	18x Optical Zoom
<b>Focal Length</b>	f=4.7 to 84.6mm
<b>Horizontal Viewing Angle</b>	3.2 to 55.2 degrees (16:9)
<b>Frame Delay</b>	1 frame
<b>Video S/N Ratio</b>	>50 dB
<b>Invertible</b>	Yes
<b>Minimum Illumination</b>	1.8 lux
<b>Control Protocol</b>	VISCA
<b>Serial Communication</b>	RS-232 (9600 or 38,400)
<b>Pan Range</b>	+170 degrees to -170 degrees
<b>Tilt Range</b>	+90 degrees to -30 degrees
<b>Pan/Tilt Speed</b>	0.25° to 60° degrees/second
<b>Preset Positions</b>	16 (internal), 6 recalled via IR Remote
<b>Image Control</b>	Red & Blue Gain, Detail, Chroma, Gamma, Pedestal, Iris and Gain (available through VISCA control)
<b>Tally Light</b>	Yes (available through VISCA control)
<b>Interfaces</b>	
<b>Power Input</b>	EIAJ-04 (12 VDC)
<b>HD Video Output</b>	D-Sub 15 pin: Component HD (Y, Pb, Pr)
<b>SD Video Output</b>	BNC: Composite
<b>Camera Control</b>	RJ-45: RS-232C (VISCA)
<b>EZ Power/Video</b>	For use with Quick-Connect SR Interface
<b>HD Video Select</b>	Rotary Switch – used to set the output resolution of HD video
<b>Camera Settings</b>	10 Dip Switch Settings for IR, SD Output, Image Flip
<b>General Information</b>	
<b>Operating Temperature</b>	32° to 104° F (0° to 40° C)
<b>Power Consumption</b>	Maximum 25 watts (without accessory card)
<b>Dimensions (W x H x D)</b>	6.75" x 8.5" x 7.7" inches (171 x 216 x 196 mm)
<b>Weight</b>	5.8 lbs. (2.63 kg.)

## CLEARVIEW HD-18 OPTIONAL ACCESSORIES

The ClearVIEW HD-18 PTZ offers the following accessories for a complete, professional installation.



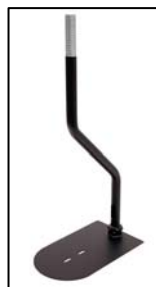
TANDBERG RS-232 Adapter  
999-1002-232  
Polycom RS-232 Adapter  
999-1003-232  
Polycom HDX 8000 Series Adapter  
999-1006-232



15-pin to BNC output cable  
440-5600-001(3 ft.) BNC-M  
440-5600-002 (6 ft.) BNC-M  
440-5600-003 (7 inch) BNC-F



ClearVIEW HD-18 Wall Mount  
535-2000-230



Off-Set Drop Down Ceiling Mount  
999-2225-296