

# 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 ( $55.2^{\circ}$ ) enough to view everyone at a conference room table, as well as capture an individual from a long distance ( $3.2^{\circ}$ ). 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.



Figure 1: Front of ClearVIEW HD-18

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

### WHAT'S INCLUDED

- Vaddio ClearVIEW HD-18 HD PTZ Camera
- IR Remote
- RJ-45 to DB-9 Adapter
- 12V PowerRite<sup>™</sup> 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.

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#### 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.



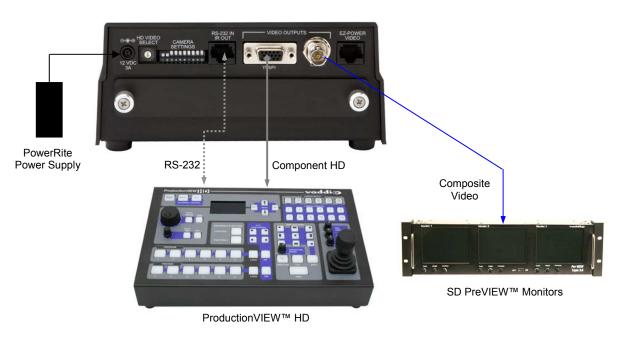
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### SYSTEM CONNECTIVITY

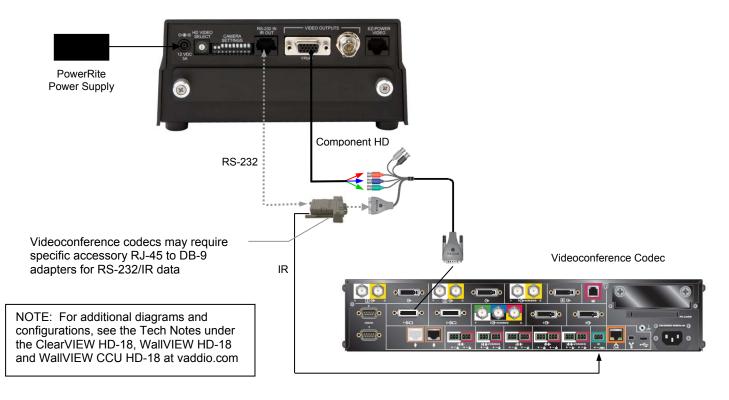
#### Figure 3:

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





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# **TECHNICAL SPECIFICATIONS**

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

ClearVIEW HD-18 Wall Mount 535-2000-230





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

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

