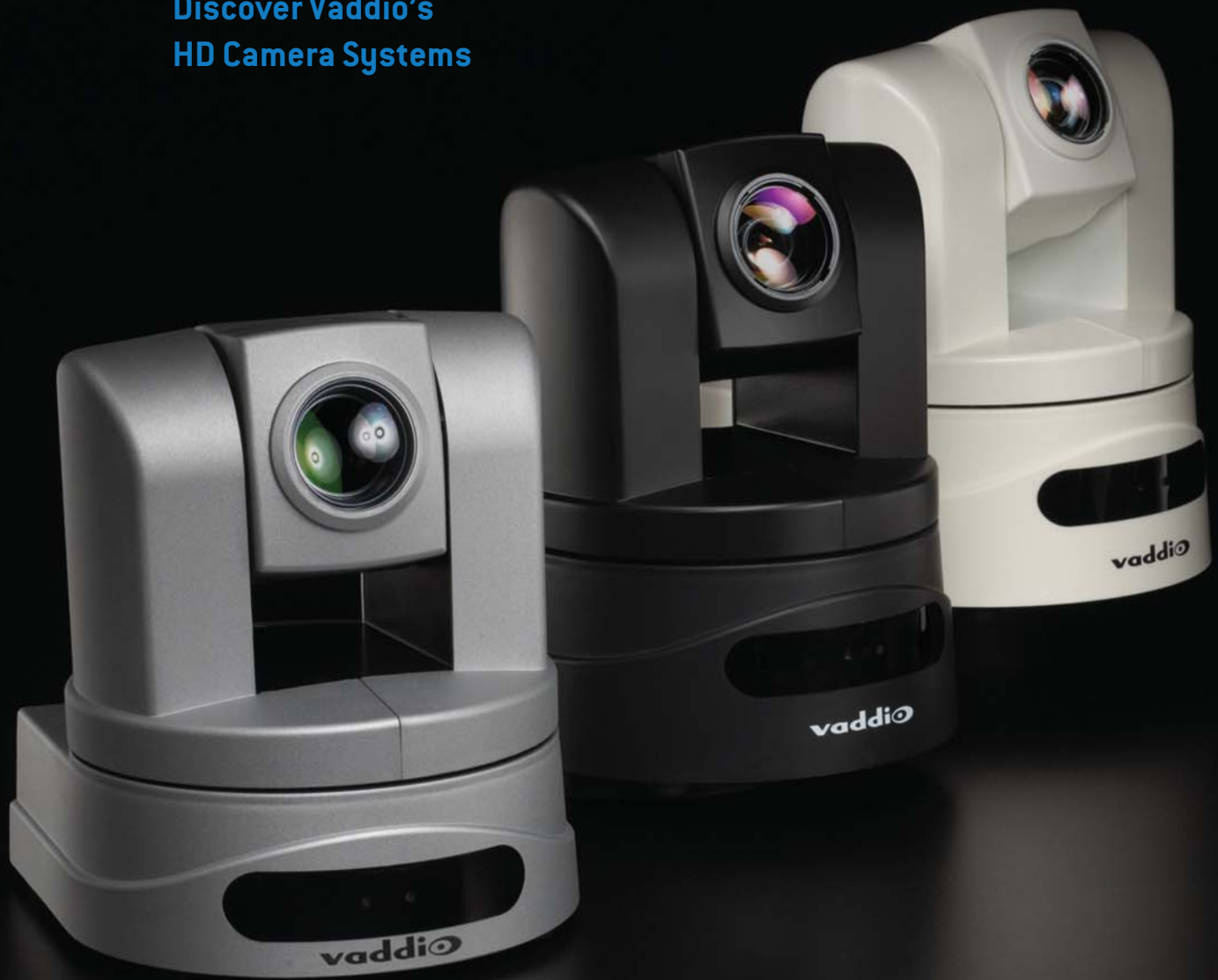


# See the future

Discover Vaddio's  
HD Camera Systems



**vaddio**  
REDEFINING CAMERA CONTROL

Vaddio ClearVIEW HD-20, HD-19, HD-18 Cameras  
Designed by Vaddio and manufactured in the United States.

## REVEAL Architectural Cameras



REVEAL Clear Glass



REVEAL Frosted Glass

The aesthetics of the camera's design match large flat screen televisions and rear screen projection systems. The camera's back box fits into the stud cavity of a wall, allowing the camera to blend into the wall.

There are two options for the camera – either clear glass, or with frosted glass. The frosted glass turns opaque when the camera is powered off, or through RS-232 command. This ability to mute the camera provides an extra level of confidence to system users who want to know the cameras are turned off.

REVEAL HD-18 comes in three different system options that all utilize our Quick-Connect Cat. 5 cabling solution.

### FEATURES

- Frosted glass turns opaque and mutes video from camera when powered down
- Power and video over Cat. 5 up to 100 feet
- 1/3-inch CCD Image Device
- 18x Optical zoom lens
- 1.3 Megapixels
- +/- 40 degrees of pan
- +25 degrees of tilt, -45 degrees of tilt

### Quick-Connect Short Range [SR]

The Quick-Connect Short Range provides power to the camera, and component HD video back to the Quick-Connect SR up to 100 feet over a single Cat. 5 cable. The Quick-Connect SR utilizes the EZ-Port on the back of the camera, making installation even easier.



### DVI/HDMI Quick-Connect

The Quick-Connect HD-18 DVI/HDMI delivers simultaneous analog component video (YPbPr) and digital video (DVI-D or HDMI) outputs on separate connectors, up to 100 feet over a single Cat. 5 cable.



### REVEAL CCU Image Controller

The CCU enables the adjustment of color, gain, pedestal, gamma, chroma, knee and iris functions on the camera with the turn of a knob. These controls allow the camera to deliver a more accurate representation of the image that is being captured and color match and shade multiple cameras. User-defined adjustments may be stored using two Scene buttons.



## ClearVIEW HD-20 Camera



**True  
Native HD  
in a single chip  
PTZ camera.**



720p upconverted HD image



True 1080p HD imaging

Experience an impressive 20x HiLD™ (High Index Low Dispersion) optical zoom lens, with imaging sensor technology comparable to a 3-Chip camera, in Vaddio's ClearVIEW HD-20 high definition PTZ camera. The multi-element motorized zoom lens and new slip-clutch robotics system enhance performance with smooth pan/tilt operation for accurate camera movement and control.

The HD-20 is built around a 6.49mm diagonal (1/3-Type) Sony Exmor sensor, which adopts the "Column-Parallel A/D Conversion Technique" to create images containing more detail than ever before. It combines the speed of the 3.27 megapixel CMOS sensor with the advanced quality image sensor technologies accumulated through the development of CCD sensors. With a LUX rating of 1.6, the HD-20 achieves improved picture quality in very low light environments resulting in a truly accurate and clean HD video image.

Outputs include high-definition video in both analog component (YPbPr) and HDMI formats in resolutions of 1080p, 1080i and 720p at 59.94Hz and 60Hz, ideal for use in presentation and videoconferencing environments.

### FEATURES

- 20x Optical HiLD™ (High Index Low Dispersion) lens
- 6.49mm diagonal (1/3-Type) high-speed CMOS image sensor
- 3.27 Megapixels
- Simultaneous Component HD and HDMI outputs (1080p, 1080i or 720p at 59.94Hz and 60Hz)
- Slip-clutch robotics system
- 1.6 LUX Rating for low-light environments
- Optional video output cards available
- Includes PowerRite power supply, IR Remote and AC cord set

## ClearVIEW HD-19 Camera



Vaddio's ClearVIEW HD-19 high definition integrated robotic PTZ camera features a 19x optical zoom lens and is built around a 1/3-Type Exmor high-speed, low noise CMOS image sensor with a total of 1.3 megapixels producing precise and vibrant HD color video images. Integrated SmartSHOT™ technology with AIP (Adjustable Image Processing) provides end user control of advanced imaging DSP (Digital Signal Processor) functions. The DSP functions allow the camera operator the ability to deliver an extremely crisp detailed image with vibrant high definition color.

Using an increased pixel aperture size, high frame rate, high signal to noise, and column-parallel A/D conversion method, the detail and sensitivity of the sensor are increased and noise is diminished. Minimum illumination is rated at 0.7 LUX.

### FEATURES

- 19x Optical zoom lens, Simultaneous Component HD and SD outputs (480i/29.97 up to 1080/60p)
- 1/3-Type Exmor high-speed CMOS Image Sensor
- 1.3 Megapixels
- Slip-clutch robotics system
- Includes PowerRite power supply, IR Remote and AC cord set
- Optional video output cards available

## ClearVIEW HD-18 Camera



Vaddio's ClearVIEW HD-18 comes equipped with a 1/3-inch, 1.3 megapixel CCD imaging sensor, a glass multi-element wide dynamic zoom lens (18x optical), a tally light and a 1.8-LUX rating, providing superior images in a wide range of high-definition video applications.

The HD-18 delivers component HD in 1080p, 1080i or 720p and simultaneous SD video. Control runs via VISCA command protocol or the IR remote that is supplied. High-torque, micro-stepper precision robotics enhance performance with smooth pan/tilt operation for accurate camera movement and control. The HD-18 is compatible with any Polycom or TANDBERG videoconferencing codec.

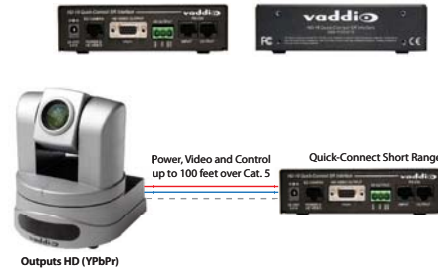
### FEATURES

- 18x Optical zoom lens
- 1/3-inch CCD image sensor
- 1.3 Megapixels
- Simultaneous Component HD (1080p, 1080i and 720p) and SD outputs
- 1.8 LUX Rating
- Optional video output cards available
- Includes PowerRite power supply, IR Remote and AC cord set

# ClearVIEW Camera Components

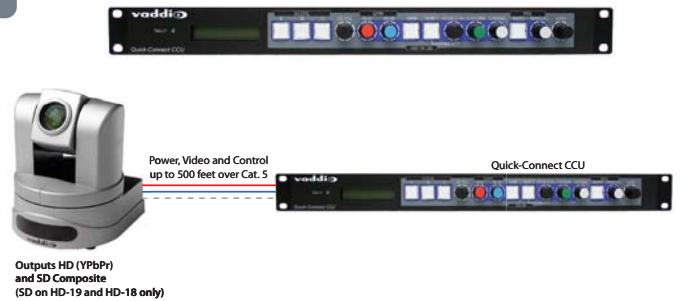
## Quick-Connect Short Range (SR)

The [SR] Short Range Quick-Connect provides power to the camera and video back to the Quick-Connect SR up to 100 feet over a single Cat. 5 cable. The HD video output connector delivers component HD video from the camera at 1080p, 1080i or 720p. The Quick-Connect SR utilizes the EZ-Port Power/Video Cat. 5 connector integrated into the back of the camera, making installation even easier.



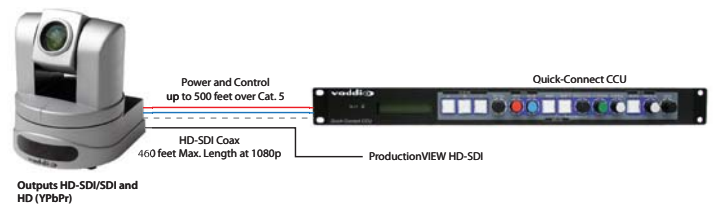
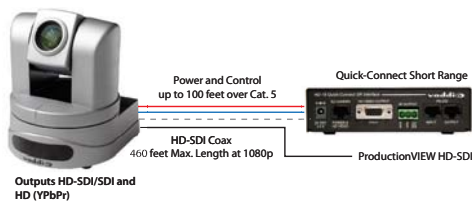
## Quick-Connect CCU

The Quick-Connect CCU enables the adjustment of color, gain, pedestal, gamma, chroma, knee and iris functions on the camera with the turn of a knob. These controls allow the camera to deliver a more accurate representation of the image that is being captured and color match and shade multiple cameras. User-defined adjustments may be stored using three Scene buttons. High Speed Differential Signaling (HSDS) is used to deliver high quality HD and SD video (SD on HD-19 and HD-18 only) over standard Cat. 5 cabling. Adjustments allow the video to be extended up to 500 feet from the Quick-Connect CCU with virtually no loss in video quality or additional latency.



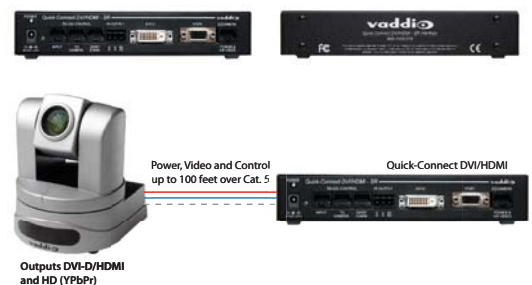
## SDI Slot Card

When inserted into the card slot of the ClearVIEW cameras, the EZIM HD-SDI Slot Card provides two HD-SDI or SDI outputs in addition to the video outputs on the back of the camera, with all signals available simultaneously. The SDI Slot Card is capable of HD-SDI or SDI video outputs, which transmits 3Gb/s single link HD-SDI digital video resolutions up to 1080p over a single coax cable.



## DVI/HDMI Quick-Connect

The Quick-Connect DVI/HDMI SR Interface provides power to the camera and video back to the Quick-Connect SR up to 100 feet over a single Cat.5 cable. Outputs include simultaneous analog component video (YPbPr) and digital video (DVI-D or HDMI) outputs on separate connectors, ideal for multiple monitoring and large projection systems. There is also Daisy Chain emulation for multiple videoconferencing codecs.



## Mounting Hardware

### IN-Wall Enclosure

The IN-Wall Enclosure for the ClearVIEW cameras is designed and sized to fit the entire PTZ camera system including the camera, EZIM and dongle to enable the use of Cat. 5 cabling.

Each system consists of an in-wall mounting box and face frame — both powder coated white, but can be painted to match any décor.



### Fusion Wall Mounting Bracket

The Fusion Wall Mounting Bracket provides a finished look for the ClearVIEW cameras by encasing the space between the back of the camera and the wall. The bottom plate cover completes the seamless, integrated appearance.



### Wall Mounting Bracket

The Wall Mounting Bracket for the ClearVIEW cameras is made of heavy gauge steel construction and mounts to drywall or 2-gang electrical box. Mounting hardware is included.



### Suspended Ceiling PTZ Camera Mount

The Suspended Ceiling PTZ Camera Mount is for mounting the HD 18, HD-19 or HD-20 to a tile ceiling and includes a custom cable grommet for mounting into a ceiling tile.



### Offset Drop Down Ceiling Mounting Bracket

The Drop Down Ceiling Mount for ClearVIEW cameras is made of heavy gauge steel construction and extends approximately 28 inches below the ceiling. The 1-inch NPT pipe thread connects to third-party mounting hardware.



## Camera Enclosures

### CeilingVIEW HD HideAway

Built for the Vaddio ClearVIEW family of cameras, the CeilingVIEW HD HideAway Lift System provides a quality high definition ceiling-mounted motorized lift solution for classrooms, training facilities and conference rooms.



### IN-Ceiling Half Recessed Enclosure

The IN-Ceiling Half Recessed Enclosure is a complete half-recessed ceiling-mounted PTZ camera system designed for the HD-18, HD-19 and HD-20 cameras. The PTZ camera is mounted into a recessed, metal ceiling camera enclosure with ceiling tile support and trim ring.



### Flush Mount Dome Kit

The 12-inch Flush Mount Dome Enclosures are formed with optical-grade polycarbonate and are available in clear (standard) or smoked tint (optional).



### Indoor Pendant Dome Kit

The 12-inch Indoor Pendant Dome Enclosures are formed with optical-grade polycarbonate and are available in clear (standard) or smoked tint (optional).



### Outdoor Pendant Dome Kit

The 12-inch weather-resistant Outdoor Pendant Dome Enclosures are formed with optical-grade polycarbonate and are available in smoked tint (standard) or clear (optional).



## CeilingVIEW HD-18 DocCAM



The CeilingVIEW HD-18 DocCAM is a high definition ceiling-mounted document camera system capable of 16:9 resolutions at 1080p, 1080i and 720p, and 4:3 resolutions at 480i and 576i. The 18x optical zoom lens and 1.3 megapixel 1/3-Type CCD image sensor provide precise color reproduction and edge focus, essential for displaying images on a large-format HD monitor or for transmitting critical images through an HD videoconferencing system.

### FEATURES

- 1/3-Type CCD Image Device
- 18x Optical zoom lens
- Component HD (1080p, 1080i or 720p) or RGBHV outputs
- 1.3 Megapixels
- Metal back box enclosure with tile support brace and trim ring
- Includes PowerRite power supply, IR Remote and AC cord set

## Quick-Connect Short Range [SR]

The Quick-Connect Short Range provides power to the camera, and component HD video back to the Quick-Connect SR up to 100 feet over a single Cat. 5 cable. The Quick-Connect SR utilizes the EZ-Port on the back of the camera, making installation even easier.



## DVI/HDMI Quick-Connect

The Quick-Connect HD-18 DVI/HDMI delivers simultaneous analog component video (YPbPr) and digital video (DVI-D or HDMI) outputs on separate connectors, up to 100 feet over a single Cat. 5 cable.



## CeilingVIEW HD-18 DocCAM CCU Image Controller

The CCU Image Controller enables the adjustment of color, gain, pedestal, gamma, chroma, knee and iris functions on the camera with the turn of a knob. These controls allow the camera to deliver a more accurate representation of the image that is being captured and color match and shade multiple cameras.



## CeilingVIEW SD DocCAM



The CeilingVIEW SD DocCAM is a standard definition ceiling-mounted document camera system equipped with a high-resolution 1/4-inch color CCD camera with a 36x optical zoom lens. The camera has VISCA camera control capabilities allowing control via codecs and other VISCA-based control systems.

### FEATURES

- 1/4-Type CCD Image Device
- 36x Optical zoom lens
- Y/C and Composite outputs
- Metal back box enclosure with tile support braces and trim ring
- Includes Quick-Connect CV HD/SD, PowerRite power supply, IR Remote and AC cord set

## CeilingVIEW SD DocCAM CCU Image Controller

The CeilingVIEW SD DocCAM CCU Image Controller works in conjunction with the Control I/O of both the SR and DVI/HDMI Interfaces allowing image control and preset scenes. Image adjustments include detail (sharpness), color (red and blue gain), white balance (auto/manual), iris (auto/manual), gain, pedestal, chroma, knee.



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Learn more about our complete line of cameras and camera control equipment at 800-572-2011 or [vaddio.com](http://vaddio.com)

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