

WALLVIEW™ CCU H700 WITH HSDS™

Featuring the Vaddio™ Quick-Connect™ CCU



The Vaddio WallVIEW CCU H700 is built around the Sony® BRC-H700 high definition pan/tilt/zoom camera. With three CCD mega-pixel sensors and a 12x optical zoom lens, the WallVIEW CCU H700 is an ideal choice for a wide range of high definition video applications. WallVIEW CCU H700 allows the user to adjust the color; gain and iris functions on the camera (see Figure 1). These controls allow the camera to deliver a more accurate representation of the image that is being captured. The other added advantages include the ability to color match multiple cameras and eliminate the need to use automatic exposure and color settings. User-defined adjustments may be stored using two Scene buttons. The WallVIEW CCU uses high speed differential signaling (HSDS), an active video transmission system, to deliver high quality HD video 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.



Figure 1: (top) Quick-Connect CCU 1 RU rack mount interface; (bottom) WallVIEW CCU H700 System with Camera, EZIM and Wall Mount

Overall, the WallVIEW CCU H700 is superb for a wide range of high definition shooting applications. It is also highly suitable for applications where adjusting the color and brightness levels of one or multiple cameras is critical, such as houses of worship, corporate boardrooms, live event production and distance-learning applications.

WHAT'S INCLUDED

- Sony BRC-H700 High Definition PTZ Camera (three 1/3 Type, megapixel CCDs with 12x zoom lens)
- EZCamera Interface Module CCU (EZIM)
- EZIM HD CCU Break-out Cable
- Quick-Connect CCU (QCCU) 1-RU Rack Mount Interface
- Sony IR Remote Control
- EZCamera Control Adapter (RJ-45 to DB-9)
- 36V PowerRite™ Power Supply
- Vaddio Thin Profile Wall Mount H700
- Mounting Hardware & Documentation

Tally

A tally out is located on the back of the 1 RU interface. When connected to an external switcher, the Quick-Connect CCU's tally light illuminates, as well as the camera's built-in tally light, when the camera is live.

Gen Lock Over CAT-5

The WallVIEW CCU H700 delivers Gen Lock signal over CAT-5 cabling, which eliminates the need to run an additional coax cable to the camera.

Distance Adjustments

Because WallVIEW CCU H700 uses active electronics, there are four cable length adjustments (<100', 200', 300' 400'+), which equalize the length of the Cat. 5 twisted pairs and vastly improves the HD video performance.

TECHNICAL FEATURES

CCU Controls

CCU controls on the product include: Red & Blue Gain; Detail; Color Hue & Color Gain; White Balance Shift; Auto & Manual Iris; Gain; Auto & One Push White Balance; and Scene Store A & B buttons.

TECHNICAL FEATURES (CONTINUED)

Luminance Gain Adjustment

A luminance gain control (Y-Gain) is also provided, which allows for enhanced control and fine tuning of the video signals when longer Cat. 5 cabling runs are required.

EZCamera Interface Module (EZIM) CCU

The EZIM CCU is a small camera interface module that is installed in the wall mount. The EZIM uses a multi-pin connector and cable assembly for maximum flexibility. A Gen Lock gain adjustment allows the user to adjust the level of black burst delivered to the camera.

Quick-Connect CCU

The 1-RU QCCU has (high definition) analog component video outputs (Y, Pb, Pr) for 1080i resolution.

Luminance Gain Adjustment

A luminance gain control (Y-Gain) is also provided which allows for enhanced control and fine tuning of the video signals when longer Cat. 5 cabling runs are required.

TECHNICAL DRAWINGS

Figure 2: Quick-Connect CCU (QCCU) interface front panel and rear panel diagrams with functional callouts.

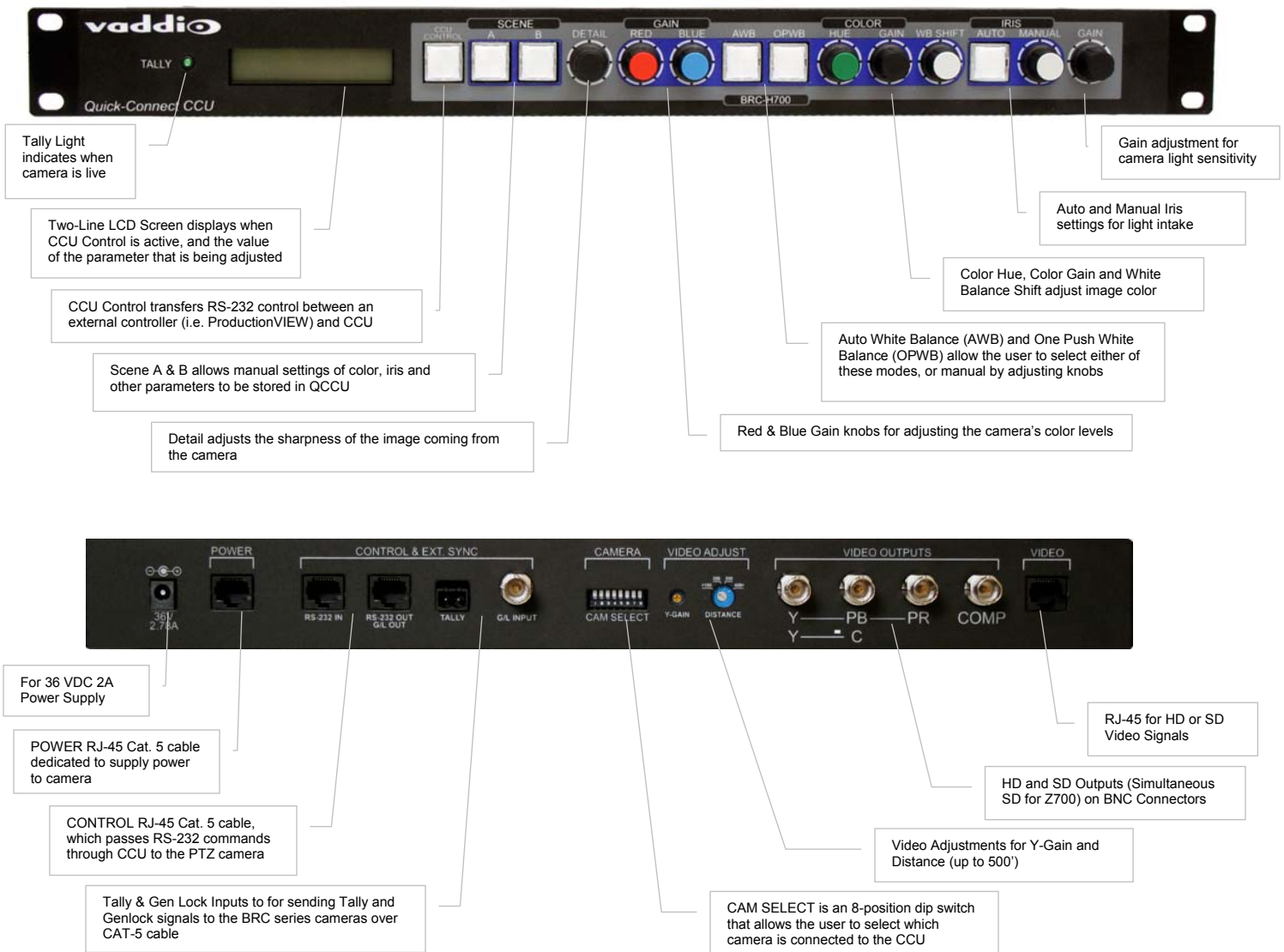
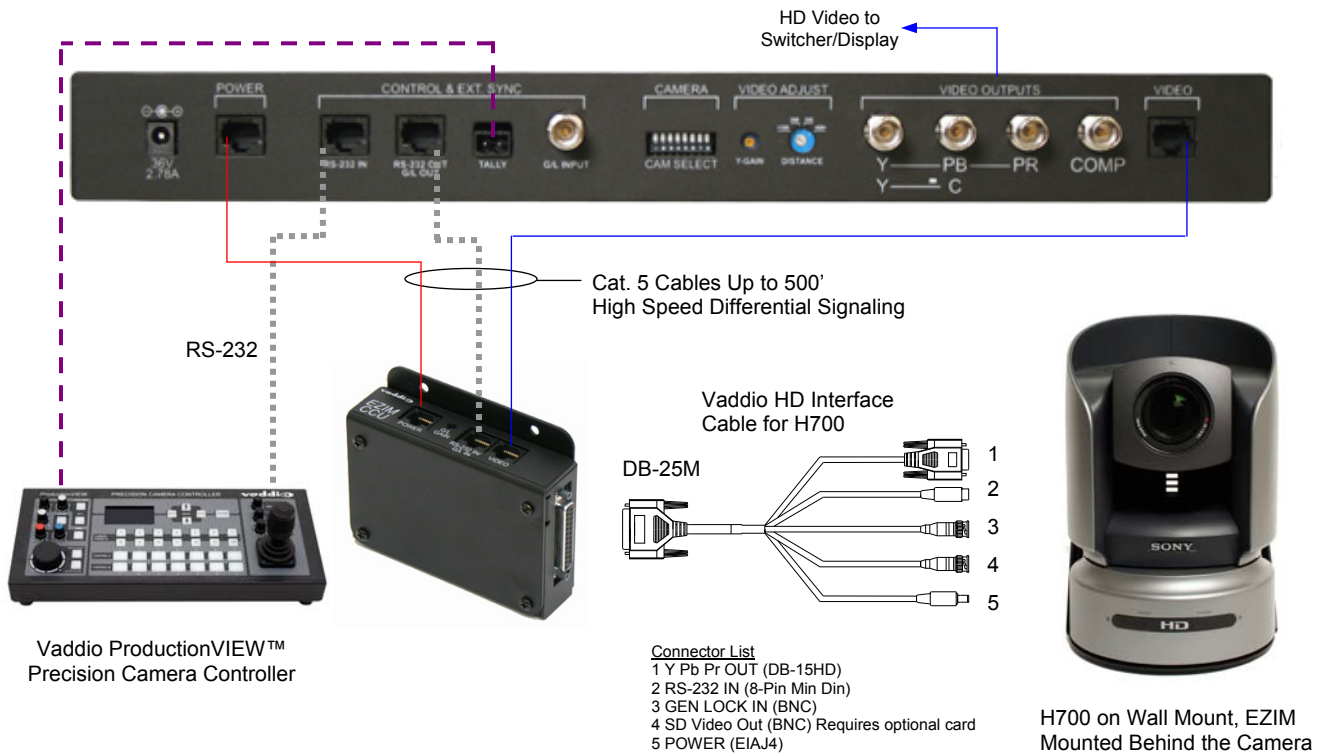


Figure 3: EZCamera Interface Module CCU (EZIM) with three (3) RJ-45 connectors for POWER, RS-232 IN / GEN LOCK and VIDEO (HD), Top View (left) and Isometric View (right)



SYSTEM CONNECTIVITY

Figure 4: Basic system connectivity of a WallVIEW CCU H700 System and ProductionVIEW Precision Camera Controller



TECHNICAL SPECIFICATIONS

WallVIEW CCU H700	
Part Numbers	WallVIEW CCU H700 999-6707-000 (NTSC) WallVIEW CCU H700 999-6707-001 (PAL)
• Sony BRC-H700	
Image Device	1/3 type IT CCD x 3
Signal System	1080/59.94i or 1080/50i (switchable)
Total Picture Elements	1.12 Megapixels (approximately)
Lens	12x Optical Zoom (48x with digital zoom)
Focal Length	f=4.5 to 54mm
Horizontal Viewing Angle	5.5 to 60.3 degrees
Video S/N Ratio	50 dB
Pan/Tilt Angle	-170 to +170 degrees (Pan), -30 to +90 degrees (Tilt)
• Quick-Connect CCU Interface (QCCU)	
Connectors	Power Connector: 5.5mm OD x 2.5mm ID Power RJ-45: Supplies 36V to EZCamera Interface Module Regulator Control In RJ-45: Accepts RS-232 from ProductionVIEW or other non-daisy-chain control systems Control Out RJ-45: Passes RS-232 and Sync video feed to camera EZIM Tally: 2-Pin Phoenix type spring cage connector Video Inputs: BNC Connector for Sync Video Outputs: BNC Connectors for HD Component (Y,PB,PR) / SD (optional SD card in camera required) Video RJ-45: Transports HD video from camera EZIM
Camera Select Switch	Selection switch for camera that will be operated with the CCU
Video Adjustments	Y-Gain (luminance gain) for fine tuning over longer cable distances Distance Compensation: 100', 200', 300', 400'+
Cat. 5 Cable Distance	Up to 500' (152.4m)
Power Supply	36 VDC, 2.78 Amp
Dimensions	1-RU Rack Mount - 1.75" H x 19" W x 6" D (4.45 cm x 4.26 cm x 15.24 cm)
• EZCamera Interface Module CCU (EZIM)	
Connectors	Three (3) RJ-45 Connectors One DB-25 for Power, Video, Control & Gen Lock (n/a for HD1 camera)
Cable Assembly	For Sony H700 Camera: DB-25M to DB-15HD/BNC x 2/8-Pin Mini Din/EIAJ4 Power Connector
Power Regulator	Supplies 12VDC to Cameras
Dimensions	3" H x 4.5" W x 1.2" D (7.6 cm x 11.4 cm x 3 cm)
• Thin Profile Wall Mount H700	
Materials	12-Gauge CRS with Black Powder Coat Paint
Dimensions	8" H x 8.5" W x 11.5" D (20.3 cm x 21.6 cm x 29.2 cm)
Weight	5.6 lbs. (2.5kg)