

WALLVIEW™ CCU HD1 WITH HSDS™

Featuring the Vaddio™ Quick-Connect™ CCU



The Vaddio WallVIEW CCU HD1 is built around the Sony® EVI-HD1 high definition pan/tilt/zoom camera. With a 2 mega-pixel CMOS sensor, the EVI-HD1 is an ideal choice for a wide range of high definition video applications. WallVIEW CCU HD1 allows the user to adjust color, gain and iris functions of 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 make necessary changes to iris and gain quickly and easily. Settings may be stored by using two Scene buttons, for various lighting conditions.

The WallVIEW CCU HD1 uses high speed differential signaling (HSDS), an active video transmission system, to deliver high quality HD or SD 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.

Overall, the WallVIEW CCU HD1 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.



Figure 1: (top) Quick-Connect CCU 1 RU rack mount interface; (bottom) WallVIEW Universal PRO HD1 System with Camera, EZIM and Wall Mount

WHAT'S INCLUDED

- Sony EVI-HD1 High Definition PTZ Camera (1/3 Type, 2 megapixel CMOS sensor with 10x zoom lens)
- EZCamera Interface Module CCU (EZIM)
- Vaddio EZIM HD Break-out Cable*
- Vaddio Quick-Connect CCU (QCCU) 1-RU Rack Mount Interface
- Sony IR Remote
- EZCamera Control Adapter (RJ-45 to DB-9)
- 36V PowerRite™ Power Supply
- Vaddio Thin Profile Wall Mount HD1
- Mounting Hardware & Documentation

* Optional EZIM SD Break-out Cable sold separately

EZCamera Interface Module (EZIM)

The EZCamera Interface Module CCU is a small camera interface module that mounts inside the wall mount and is a universal interface for several HD or SD PTZ cameras available today. The EZIM uses a multi-pin connector and cable assemblies for maximum flexibility.

Quick-Connect CCU

The 1-RU interface has (high definition) analog component video outputs (Y, Pb, Pr) for 1080i and 720p resolution signals or S-Video and Composite Video* outputs on BNC connectors.

* Optional SD cable sold separately

TECHNICAL FEATURES

CCU Controls

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

Distance Adjustments

Because WallVIEW CCU 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 (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.

Superior Power Regulation

The WallVIEW Universal PRO HD1 uses the PowerRite 36V power supply, which is the key to providing the electrical current that the larger

PTZ camera motors, like the BRC-H700 or EVI-HD1, require to operate properly.

Complete System

The WallVIEW CCU HD1 comes complete and includes everything the installer needs to accomplish a professional installation. Three Cat. 5 cable runs for Power, Video and Control are required to complete the installation. .

Optional SD Break-out Cable: Part # 440-6207-000 (provides Y-C and Composite video)

TECHNICAL DRAWINGS

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

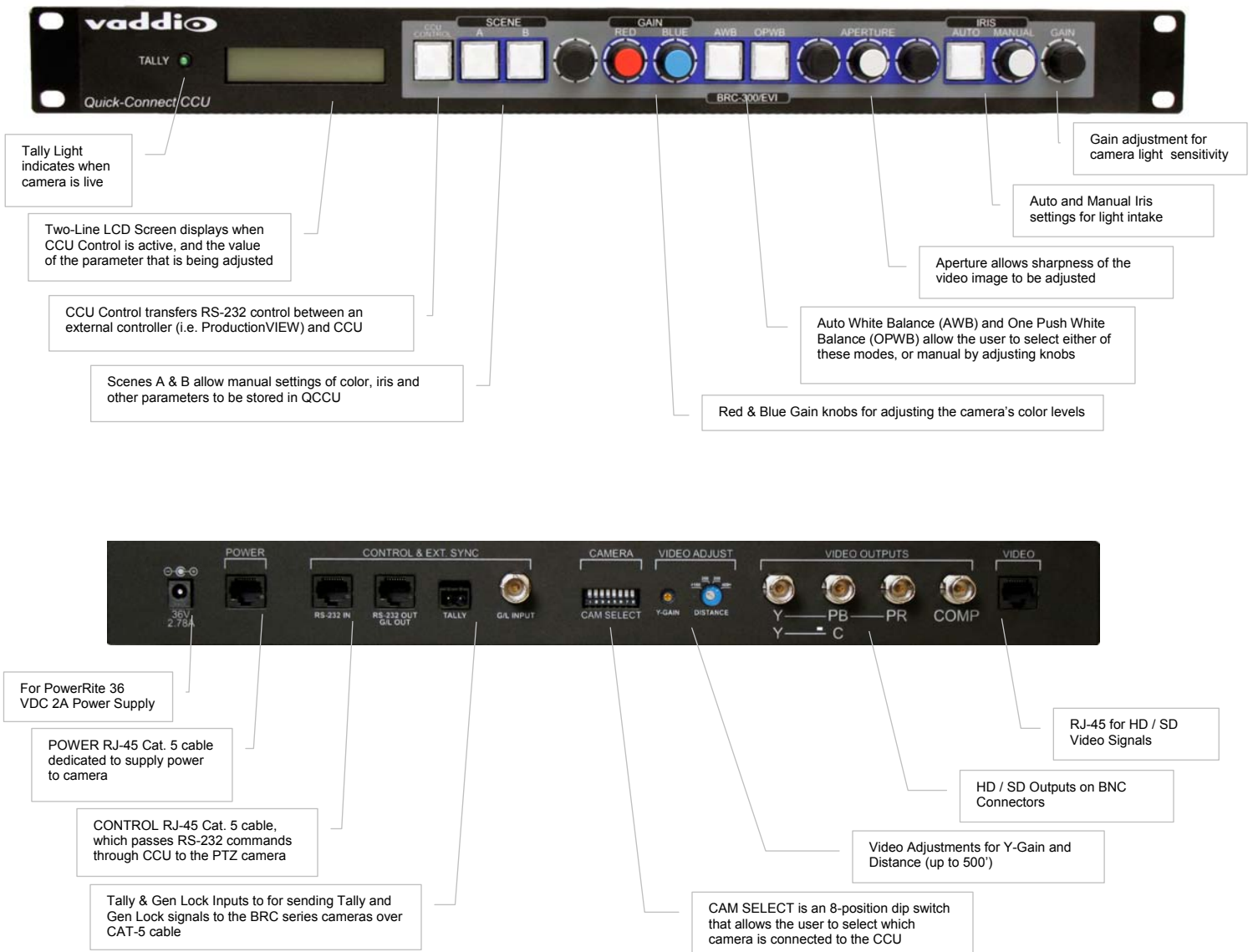
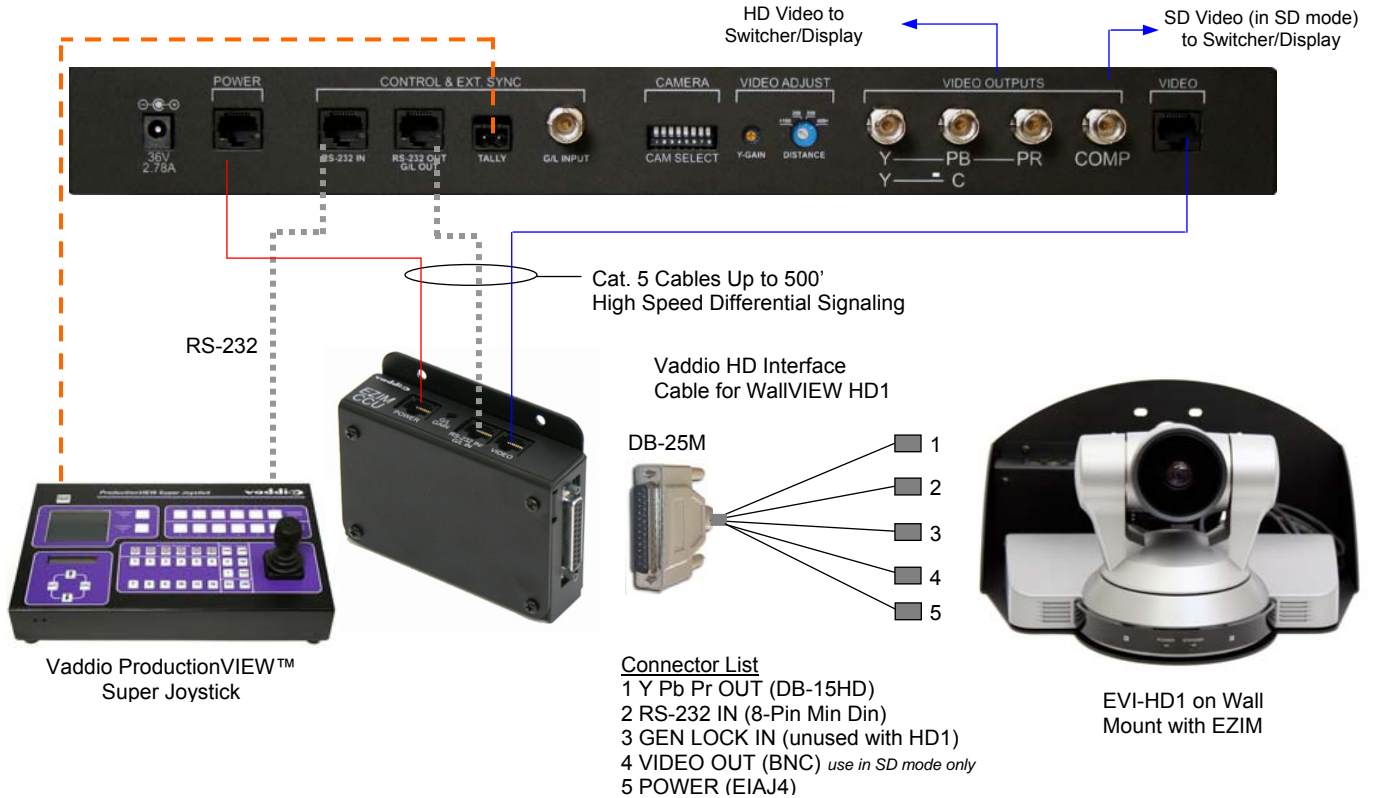


Figure 3: EZCamera Interface Module CCU (EZIM) with three (3) RJ-45 connectors for POWER, RS-232 IN / GEN LOCK and VIDEO (HD or SD), Top View (left) and Isometric View (right)



SYSTEM CONNECTIVITY

Figure 4: Basic system connectivity of a WallVIEW CCU HD1 System and ProductionVIEW Super Joystick Controller



TECHNICAL SPECIFICATIONS

WallVIEW CCU HD1	
Part Numbers	WallVIEW CCU HD1 999-6307-000 (NTSC) WallVIEW CCU HD1 999-6307-001 (PAL)
• Sony EVI-HD1	
Image Device	1/3 type CMOS
Video Signal	1080i/59.94, 1080i/50, 720p/59.94, 720p/50, NTSC (LB, CR, SQ) or PAL (LB, CR, SQ) (switchable)
Effective Picture Elements	2 Megapixels (approximately)
Lens	10x Optical Zoom (40x with digital zoom)
Focal Length	f=3.4 to 33.9mm
Horizontal Viewing Angle	8 to 70 degrees
Video S/N Ratio	50 dB
Pan/Tilt Angle	-100 to +100 degrees (Pan), -25 to +25 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 (not applicable with HD1) Video Outputs: BNC Connectors for HD Analog Component (Y,PB,PR) / SD (Y-C and Composite) 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 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 HD1 Camera: DB-25M to DB-15HD/8-Pin Mini Din/BNC x 2/EIAJ4 Power Connector * Optional SD Video Cable (with S-video and composite) Part # 440-6207-000
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 HD1	
Materials	12-Gauge CRS with Black Powder Coat Paint
Dimensions	6" H x 11.75" W x 11" D (15.2 cm x 29.85 cm x 27.9 cm)
Weight	5.4 lbs. (2.5 kg)