WALLVIEW™ PRO HD1 WITH HSDS™

Vaddio™ Quick-Connect™ PRO and EZCamera™ Interface Module

The Vaddio WallVIEW PRO HD1 is built around the Sony® EVI-HD1 high definition pan/tilt/zoom camera. With a 2 mega-pixel CMOS sensor, the WallVIEW PRO HD1 is an ideal choice for a wide range of high definition video applications. The WallVIEW PRO HD1's active electronics deliver high definition or standard definition video (using the optional SD Break-out cable) up to 500' (152.4m) over standard Cat. 5 cable. The WallVIEW PRO HD1 system includes the EZCamera Interface Module (EZIM) and Quick-Connect PRO (QCP) interface.

The WallVIEW PRO HD1 uses high speed differential signaling (HSDS) for the video signals which gives this system high definition video capability, superior video quality over longer Cat. 5 cabling distances and the ability to adjust the signal depending on the length of the cabling used.

Figure 1: WallVIEW PRO HD1 System with Camera, EZIM and Wall Mount

The WallVIEW PRO has many new features including a four position distance adjustment for Cat. 5 cabling, Y-Gain adjustment for cable length compensation, IR forwarding, 1-RU rack mount QCP interface and the small EZIM, which can be paired with several different HD or SD cameras available today.

Overall, the WallVIEW PRO HD1 is superb for a wide range of high definition shooting applications. It is also highly suitable for applications in which images are displayed on large-screen displays, such as in houses of worship, in auditoriums of teaching hospitals, in corporate boardrooms, and for distance-learning applications in which clear, high definition images are required.

WHAT'S INCLUDED

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

  * Optional EZIM SD Break-out Cable sold separately

TECHNICAL FEATURES

Distances up to 500' (152.4m) with HSDS
The WallVIEW PRO HD1 uses high speed differential signaling (HSDS), which allows higher definition video signals to be conveyed over longer Cat. 5 cabling distances.

EZCamera Interface Module (EZIM)
The EZCamera Interface Module is a small camera interface module that mounts to the back of the wall mount and is an 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 PRO (QCP)
The 1-RU QCP 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.

IR Forwarding Feature
The IR Forwarding feature allows IR signals from Polycom™ and TANDBERG remotes to be sent through the EZIM/QCP to the codec's IR interface or IR window allowing maximum design flexibility.

TECHNICAL FEATURES (CONTINUED)

Distance Adjustments

Because WallVIEW PRO HD1 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.

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 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.

Thin Profile Wall Mount Included

With each system, a Thin Profile Wall Mount Bracket is provided. The Wall Mount can be attached to the wall with anchors or can be mounted directly to a standard 2-gang wall box. There are pre-drilled and tapped mounting holes for the EZCamera Interface Module on the back of the Wall Mount to make installation easy.

Complete System

The WallVIEW PRO 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. A fourth Cat. 5 is only needed for daisy-chain control configurations.

Optional SD Break-out Cable: Part # 440-6204-000

TECHNICAL IMAGES

Figure 2: Quick-Connect PRO (QCP) interface front panel and rear panel images with functional callouts.

For PowerRite 36 VDC 2A Power Supply

POWER RJ-45 with 4-pair Cat. 5 cable dedicated to supply power to camera

Camera Select Switch sets up QCU for IR functions with third-party IR remote controls

IR Gain Adjust and Feed Through from Camera (Sony, Polycom® or TANDBERG® IR Remote codes are compatible)

Video Adjustments for Y-Gain and Distance (up to 500')

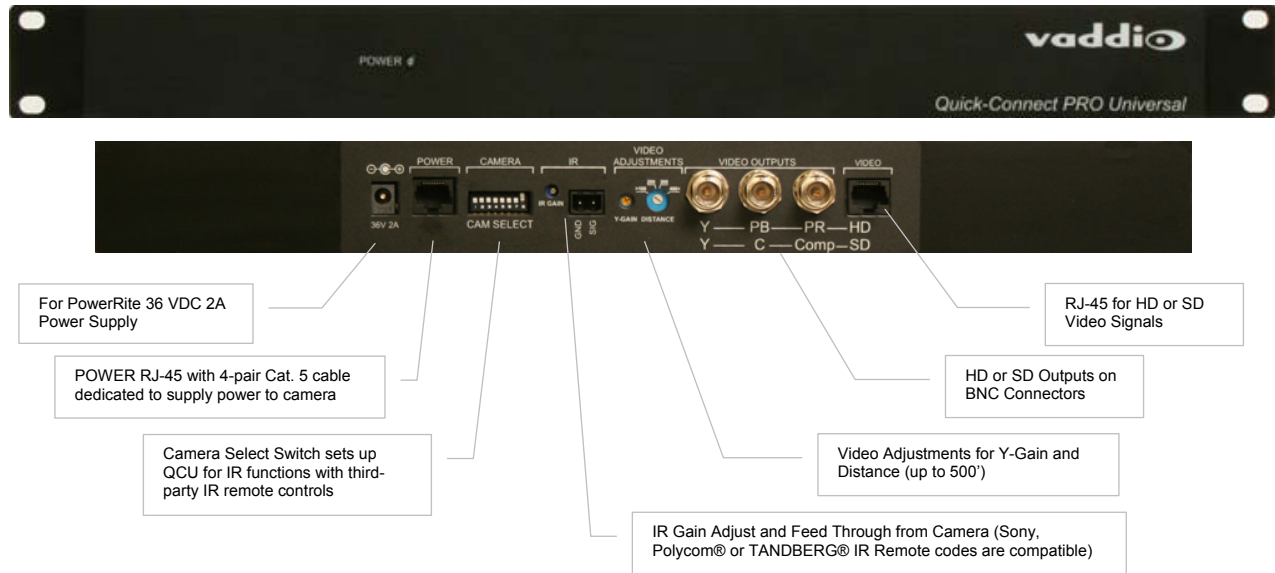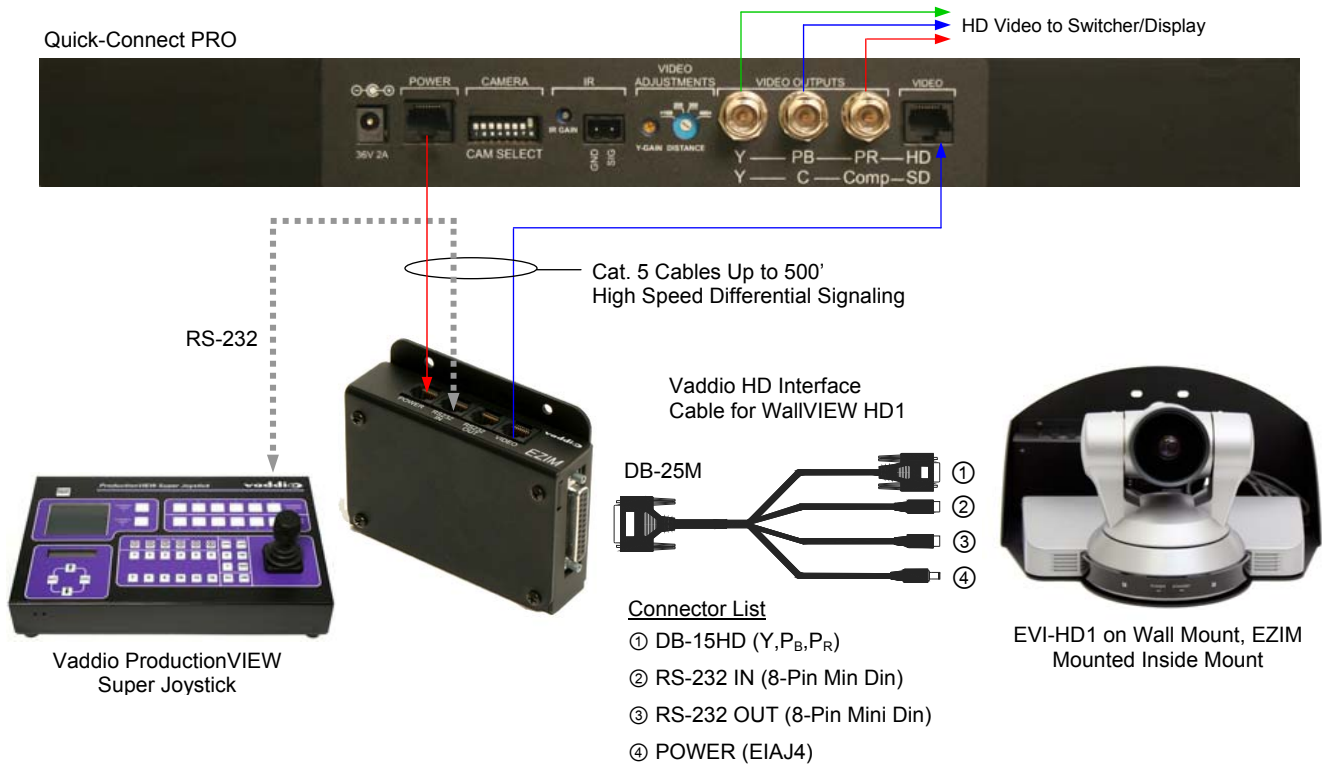HD or SD Outputs on BNC Connectors

RJ-45 for HD or SD Video Signals

Figure 3: EZCamera Interface Module (EZIM) with four (4) RJ-45 connectors for POWER, RS-232 IN & OUT and VIDEO (HD or SD with IR), Top View (left) and Isometric View (right)

EZIM Top View

EZIM ISO View

Mounting Flange for securing the EZIM to camera mounts

RJ-45 Connectors for Video, Power and Control

DB-25 Connector for Camera Break-out Cable

SYSTEM CONNECTIVITY

Figure 4:
Basic system connectivity of a WallVIEW PRO HD-Z700 System and ProductionVIEW™ Super Joystick Controller

Quick-Connect PRO

HD Video to Switcher/Display

Cat. 5 Cables Up to 500'
High Speed Differential Signaling

RS-232

Vaddio HD Interface
Cable for WallVIEW HD1

DB-25M

① ② ③ ④

Vaddio ProductionVIEW
Super Joystick

Connector List
① DB-15HD (Y,P$_B$,P$_R$)
② RS-232 IN (8-Pin Min Din)
③ RS-232 OUT (8-Pin Mini Din)
④ POWER (EIAJ4)

EVI-HD1 on Wall Mount, EZIM
Mounted Inside Mount

TECHNICAL SPECIFICATIONS

WallVIEW PRO HD1	
Part Numbers	WallVIEW PRO HD1 999-6305-000 (North America) WallVIEW PRO HD1 999-6305-001 (International)
• **Quick-Connect PRO Interface (QCP)**	
Connectors	Power Connector: 5.5mm OD x 2.5mm ID Power RJ-45: Supplies 36V to EZCamera Interface Module Regulator IR: 2-Pin Phoenix type spring cage connector Video Outputs: BNC Connectors for HD Analog Component (Y,PB,PR) Video RJ-45: Transports HD video from camera
Camera Select Switch	IR Modes: IR Forwarding for use with Polycom HDX Codec and Modulated for use with TANDBERG codec with attached IR probe to front panel IR Receiver (probe not included)
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) for Video, Power, Control and IR
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 (EZIM)**	
Connectors	Four (4) RJ-45 Connectors One DB-25 for Power, Video, Control & IR
Cable Assembly	For Sony HD1 Camera: DB-25M to DB-15HD/8-Pin Mini Din x 2/EIAJ4 Power Connector * Optional SD Video Cable (Part # 440-6204-000) sold separately (after June 2008)
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	6.25" H x 10.9" W x 7.25" D (15.9 cm x 27.7 cm x 18.4 cm)
Weight	4.6 lbs. (2.1 kg)