

ADD-A-CAM™ PRO

Vaddio™ Pro Series EZCamera™ Cable System for Professional Camcorders



The Vaddio Add-A-Cam PRO System was designed to seamlessly integrate with the Vaddio ProductionVIEW™ Series of camera control systems and high definition or standard definition professional camcorders. The Add-A-Cam Pro system is the heart of a truly flexible camera system that has many options which include the model of pro camcorder, pan/tilt head mechanism and mounting bracket for the pan/tilt (wall mount or pedestal mount).

The centerpiece of the Add-A-Cam PRO system is the EZCamera PRO Camcorder Shoe and the rack mountable Quick-Connect PRO cable breakout box. These active components use high speed differential signaling (HSDS) for the video signals as opposed to baluns which gives this system high definition video capability, superior video quality over longer Cat. 5 cabling distances and the ability to adjust the video signal for both distance and Y-Gain depending on the length of the cabling used. Because the electronics in the system are active, the Add-A-Cam PRO delivers either high definition or high resolution standard definition video up to 500' (152.4m) over standard Cat. 5 cable with little or no signal loss.

The Add-A-Cam Pro has many unique and professional features including support for LANC (lens control), tally contacts and lights on the Quick-Connect PRO and EZCamera PRO for camera selection notification, Genlock support for external switchers, component video outputs (Y, Pb, Pr) supporting HD video resolutions up to 1080p, automatic control LINK for auto-recognition of the Add-A-Cam PRO when used with the ProductionVIEW series of camera controllers and the EZCamera PRO shoe which has a small footprint and a universal tripod mount that fastens to both a tripod or pan/tilt bracket and the camcorder bottom with standard 1/4"-20. The Add-A-Cam PRO is an extremely flexible, professional camera system which leverages the popularity and the quality of the HD and SD pro camcorders on the market today.

Figure 1:
Add-A-Cam PRO
Components;

- EZCamera PRO (top)
- Quick Connect PRO (bottom)
- Optional Canon XL-2 and Pan/Tilt Head mounted on EZCamera PRO Shoe (right)



WHAT'S INCLUDED

Add-A-Cam PRO Base System Includes:

- EZCamera PRO Camcorder Shoe
- Quick-Connect PRO
- LANC Cable (Lens Control Cable)
- 36 VDC PowerRite Power Supply

200', 300' 400'+) which equalize the length of the Cat. 5 twisted pairs and vastly improves the SD and HD video performance.

TECHNICAL FEATURES

Distances up to 500' (152.4m) over Cat. 5 Cable

The active components in the Add-A-Cam PRO use high speed differential signaling (HSDS) which allows higher resolution (1080i and 720p) video signals to be conveyed over longer Cat. 5 cabling distances.

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.

Distance Adjustments

Because Add-A-Cam Pro System uses HSDS, there are four cable length adjustments (<100',

Many Available Options

The Add-A-Cam PRO Base System has several pro camcorder options, pan/tilt head option and pan/tilt head mounting options. The flexibility of the A-Cam PRO system is the one of the system's main strengths.

TECHNICAL FEATURES (CONTINUED)

Quick-Connect PRO

The 1-RU Quick-Connect PRO has HD (high definition) analog component video outputs (Y, Pb, Pr) for 1080i and 720p resolution signals. It is also switchable to SD outputs (S-Video and composite) for use with SD camcorders like the renowned Canon XL-2.

EZCamera PRO Shoe

The EZCamera PRO fastens to the 1/4"-20 connection on the camcorder base and also has a 1/4"-20 connection on its base for connection to a tripod or pan/tilt mechanism. The EZCamera PRO shoe is connected to the Quick-Connect PRO with two Cat. 5 cables which carry power and control on the 1st Cat. 5 and video on the 2nd Cat. 5. All the connections (HD or SD video, power, LANC, genlock) from the camcorder are on the EZCamera PRO shoe (Figure 3).

Compatible Pro Camcorders

At present, the list of compatible pro camcorders includes:

SD Camcorders

1-Canon XL-2 (3-CCD)

HD Camcorders

2-Canon XH-A1 (3-CCD)

3-Canon XH-G1 (3-CCD)

4-Canon XL-H1 (3-CCD)

Figure 2: Pro Camcorders



Optional Pan/Tilt Head

The Vaddio Add-A-Cam PRO Pan/Tilt head is an integrated broadcast-quality unit and is designed to effectively handle pro camcorders weighing up to 15lbs (6.8 kg). With resolution of more than 1 million steps, this pan/tilt offers responsive speed control and enables exceptional accuracy. Camcorder mounting brackets sold separately.

TECHNICAL IMAGES





Figure 3 - Technical Images:

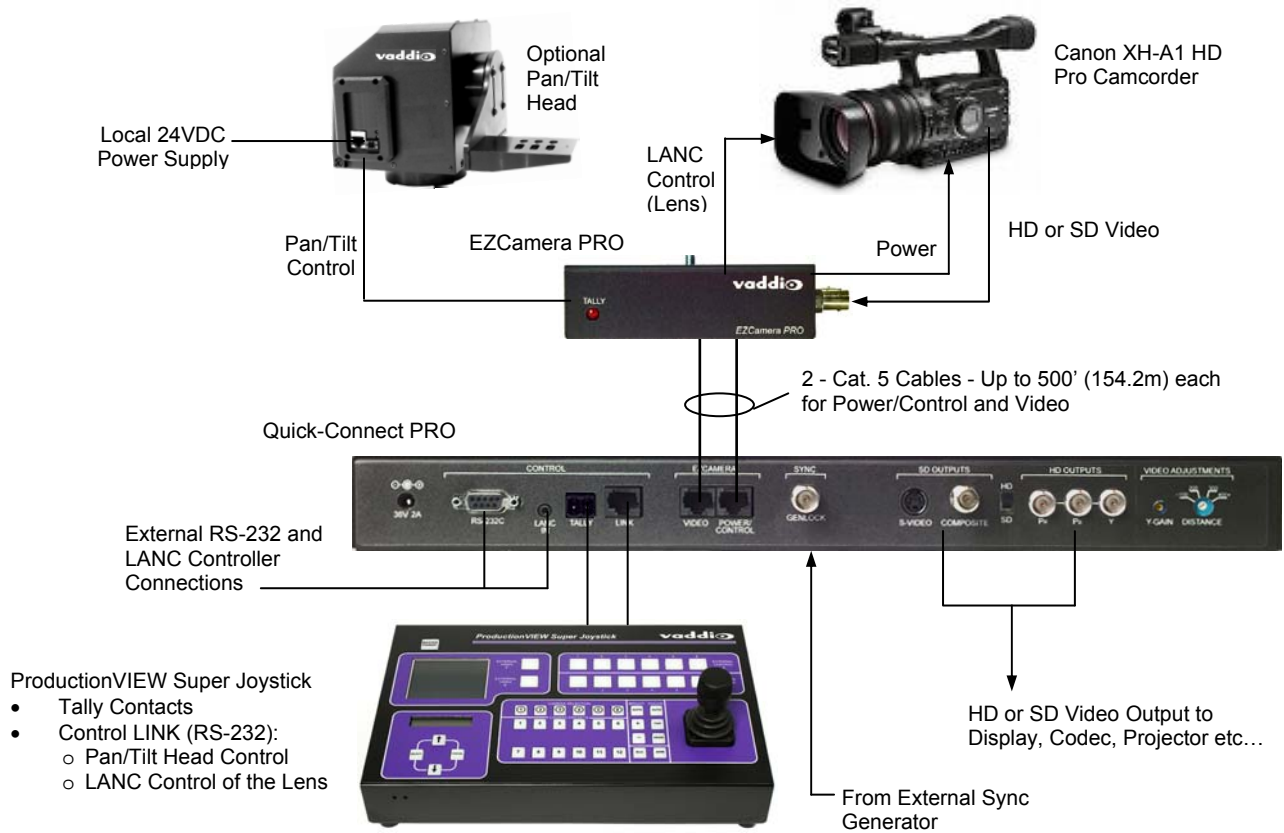
Top row left to right: The EZCamera PRO rear panel connections, EZCamera Pro side panel connections and Optional Pan/Tilt Head
Bottom: The 1-RU Quick-Connect PRO showing connections for control, EZCamera PRO, Sync, SD and HD outputs and Video Adjustments available for the active electronics to drive the signal up to 500' (152.4m).

ADD-A-CAM PRO PRODUCT DETAILS

ADD-A-Cam PRO - Part Numbers and Options

Add-A-Cam Pro Base System	999-6500-000 Add-A-Cam PRO Base System (North America) 999-6500-001 Add-A-Cam PRO Base System (Int'l) • Includes EZCamera Pro and Quick-Connect Pro, PowerRite Power Supply and LANC Cable
Add-A-Cam Pro with Canon Camcorder Options <i>North America Sales Only</i>	999-6501-000 Add-A-Cam PRO Base System with Canon XL-2 Pro Camcorder 999-6503-000 Add-A-Cam PRO Base System with Canon XH-A1 Pro Camcorder 999-6504-000 Add-A-Cam PRO Base System with Canon XH-G1 Pro Camcorder 999-6505-000 Add-A-Cam PRO Base System with Canon XL-H1 Pro Camcorder
Pan/Tilt Head Option 	999-6520-000 (North America) 999-6520-001 (Int'l) • Includes Pan/Tilt Head and 24VDC Power Supply and Universal Camcorder mounting bracket that fits Canon XH-A1, XH-G1, XL-2 and XL-H1 Pro Camcorders
Pan/Tilt PRO Mounting Options 	998-6521-001 Wall Mount Bracket for Pan/Tilt Head (1) 998-6521-002 Pedestal Mount for Pan/Tilt Head (2) 999-6521-003: Pipe Flange Mount (machined, fits 1-1/2" NPT Pipe) (3) 999-6521-004: Tripod Mount (fits tripods with 75mm bowls) (4)

SYSTEM CONNECTIVITY



TECHNICAL SPECIFICATIONS

Add-A-Cam PRO Specifications	
Base System	Includes EZCamera Pro and Quick-Connect PRO
EZCamera PRO I/O	RJ-45 for HD or SD Video, RJ-45 for Camera Power and Control (RS-232 and LANC), 2-pin Phoenix type for camera power output, 2.5mm TRS LANC Input, 2.5mm TRS LANC output, 4-pin mini din for S-Video in from camera, BNC for video in from camera, BNC for Genlock out to camera, 3-RCA-F colored connectors for component video (Y, Pb, Pr) inputs, RJ-45 for Pan/Tilt Control
Quick-Connect PRO I/O	Power, DB-9F for Controller input, 2.5mm TRS for LANC control in, 2-pin Phoenix type for Tally, RJ-45 for control LINK (RS-232 from ProductionVIEW controllers), EZCamera Connections on RJ-45 (2), BNC for Genlock in to camera, 4-pin mini din for S-Video out, BNC for video out, 3-BNC connectors for component video (Y, Pb, Pr) outputs
Max. Cat. 5 Cable Distance	Up to 500' (152.4m)
Power Supply	36 VDC, 2 Amp
Optional Pan/Tilt Head	
Angular Travel	Pan: + 179° (358° total), Tilt: + 90° (180° total)
Speed	Pan: 55°/sec., Tilt: 55°/sec
Repeatability	± 3 arc minutes
Weight Capacity	15 lbs. (6.80 kg) with balanced load
Connectors I/O	RJ-45 for RS-232 from EZCamera Pro shoe, Power Connector (5.5mm OD x 2.5mm ID positive center)
Power Supply	24VDC, 2.0 AMP
Dimensions (HWD)	6 7/16" x 5 5/8" x 5 3/8" (16.3 cm x 14.3 cm x 13.7 cm) not including camera
Weight	10.51 lbs (4.77 kg) not including camera or bracket
Environmental	32° F to 120° F (0° C to 48.8° C) ambient temperature range
Accessories	Camera Brackets and Mounting options sold separately