



Introduction

The Atlona AT-HDVS-CAM is an enterprise-grade PTZ camera designed for use in video conferencing and other applications such as lecture capture and distance education. It features a USB 2.0 interface for video and camera control. The HDVS-CAM seamlessly integrates with the Omega™ Series, HDVS-300 System, and OmniStream™ for a complete, automated conferencing system that includes AV and USB extension. The HDVS-CAM delivers high performance, professional-quality imaging with video resolutions up to 1080p @ 30 Hz, as well as fast and accurate auto-focusing, and a fast yet quiet pan and tilt mechanism. Also available is H.264 or H.265 streaming over IP with support for RTMP and RTSP protocols. This PTZ camera is ideal for a wide range of small to medium-sized meeting spaces, classrooms, and training rooms. The HDVS-CAM is available in black or white.

The HDVS-CAM is part of a family of PTZ cameras that includes the HDVS-CAM-HDBT with HDBaseT output, as well as the HDVS-CAM-HDMI, with HDMI output plus USB 2.0 interface. It includes a handheld IR remote control, plus mounting hardware for convenient on-wall installation. Available as an option is the AT-HDVS-CAM-CMNT for inverted ceiling mounting.

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Applications

- **Meeting spaces and conference rooms**
The HDVS-CAM works together with the USB extension capability of an Omega Series or OmniStream system to enable simple, clean connectivity from the front wall to PCs at the meeting table. The camera is universally compatible with any PC using the standard USB video driver.
- **Classrooms and other instructional spaces**
The HDVS-CAM is ideal for distance learning and collaboration, as well as recording lectures.

Key Features

- Designed for video conferencing with AV systems supporting USB interfacing and extension.
- USB 2.0 interface for video and camera control.
- Universal PC compatibility through standard UVC 1.1 (USB Video Class) driver.
- Works with popular soft codec and UC clients such as Microsoft® Teams, Zoom™, BlueJeans™, Slack™, WebEx®, and GoToMeeting®.
- Up to 255 camera presets available, 10 accessible from IR remote.
- Supports VISCA, Pelco-D, and Pelco-P camera control protocols.
- H.264 and H.265 video over IP network streaming available, with support for RTMP and RTSP protocols.
- Fast and accurate auto focus, plus auto white balance and auto exposure modes.
- Fast and quiet pan and tilt mechanism.
- Picture controls available for brightness, color, saturation, contrast, sharpness, and gamma.
- Easy, GUI-based configuration using integrated web server.
- TCP/IP, RS-232, USB, and IR control – convenient handheld IR remote control included.
- Available video resolutions from 176×144 up to 1080p @ 30 Hz.
- High performance imaging, fine detail, and color rendering with 1/2.8" low-noise, HD CMOS sensor.
- Multi-element zoom lens with 10x optical zoom and a 60.9° horizontal field of view.
- Camera can be mounted on a wall, or inverted for ceiling installation with the optional AT-HDVS-CAM-CMNT ceiling mount kit.
- Includes installation guide, wall mounting bracket, IR remote control, 2 meter (6.5 foot) USB Type-A male to male cable, VISCA to RS-232 DB-9 adapter, lens cap, and external universal power supply.
- Available in black or white.
- Award-winning 10 year limited product warranty.⁽¹⁾

Specifications

Video	
Signal	USB
HD	1920x1080p@60/59.97/50/30/29.97/25 Hz 1920x1080i@60/59.94/50 Hz 1280x720p@60/59.94/50 Hz
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0

Streaming	
Video Compression	H.264 / H.265
Protocol	TCP, UDP, RTMP, RTSP
Bitrate	46 kbps - 40960 kbps
Compression Profiles	BP, MP, HP
Bitrate Control	VBR
Multi-Stream	Main Stream / Sub Stream (simultaneous stream output) ⁽²⁾
Latency	175 ms

Camera	
Sensor	1/2.8" HD CMOS
Effective Pixels	16:9, 2.07 MP
Optical Zoom	$f = 4.7 \sim 47$ mm
View Angle	6.43° (telephoto), 60.9° (wide-angle)
Av	$f/1.6 - f/3.0$
Digital Zoom	10X
Minimum Illumination	0.5 lm ($f/1.8$ with AGC On)
DNR	2D / 3D
White Balance	Auto / Manual / One Push / 3000 K / 4000 K / 5000 K / 6500 K
Focus	Auto / Manual
Aperture	Auto / Manual
Electronic Shutter	Auto / Manual
BLC	ON / OFF
WDR	Off / Dynamic Level Adjustment

Camera	
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W Mode, Gamma Curve
SNR	> 55 dB

PTZ	
Pan Rotation	± 170°
Tilt Rotation	-30° ~ +90°
Pan Control Speed	0.1 - 180° / sec
Tilt Control Speed	0.1 - 80° / sec
Preset Speed	Pan: 60° / sec, Tilt: 30° / sec
Preset Number	255 (10 presets using the included IR remote control)

Connectors	
USB	1 x USB, Type A
LAN	1 x RJ45, 100Base-T
RS-232	2 x 9-pin DIN
12VDC	1 x HEC3800

Temperature	Fahrenheit	Celsius
Operating	14 to 122	-10 to 50
Storage	-14 to 140	-10 to 60
Operating Humidity (RH)	20% to 80%, non-condensing	
Storage Humidity (RH)	20% to 95%, non-condensing	

Power	
Consumption	12 W
Supply	Input: 110 - 220 V AC, 50/60 Hz Output: 12 V DC, 1 A

Dimensions (H x W x D)	Inches	Millimeters
Unit	6.59 x 5.90 x 5.90	167.5 x 150 x 150
Power Supply (AT-PS-122-NL)	1.26 x 1.97 x 3.7	32.05 x 50 x 94

Weight	Pounds	Kilograms
Device	3.08	1.4

Certification	
Device	CE, FCC

Accessories

SKU	Title
AT-HDVS-CAM-CMNT	Ceiling Mount Kit for AT-HDVS-CAM

Footnotes

- (1) PTZ motor is covered for 3 years.
- (2) Tested using VLC media player connected to the camera.

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