



Introduction

The Atлона **AT-HDVS-CAM-HDBT** is an enterprise-grade PTZ camera designed for use in video conferencing and other applications such as lecture capture and distance learning. It features an HDBaseT output for extending video, power, and camera control over distances up to 330 feet (100 meters). The HDVS-CAM-HDBT is ideal for remotely interfacing into HDBaseT equipped switchers and extenders, for use with a video conferencing codec, lecture capture appliance, or PC equipped for video capture. Camera control over HDBaseT or TCP/IP facilitates remote integration into AV control systems. The HDVS-CAM-HDBT delivers high performance, professional-quality imaging with video resolutions up to 1080p @ 60 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 large meeting spaces, classrooms, training rooms, and many other environments. The HDVS-CAM-HDBT is available in black or white.

Applications

- **Meeting spaces and conference rooms**
The HDVS-CAM-HDBT enables simple, clean connectivity over category network cable, from a wall or ceiling to AV equipment in a credenza or below the meeting table.
- **Classrooms and other instructional spaces**
The HDVS-CAM-HDBT is ideal for distance learning and collaboration, as well as recording lectures.
- **Legacy video conferencing systems**
This camera can provide an effective upgrade to existing codecs, by delivering high quality imaging performance and ease of installation over HDBaseT.

Key Features

- Designed for video conferencing and other applications such as lecture capture and distance education.
- HDBaseT output for extending video, power, and camera RS-232 control up to 330 feet (100 meters) @ 1080p with CAT5e/6 cable.
- Remote powering over HDBaseT – local powering available with included power supply.
- High performance imaging, fine detail, and color rendering with 1/2.8" low-noise, HD CMOS sensor.
- Delivers HD video resolutions including 1080p @ 60 Hz.
- Up to 255 camera presets available, 10 accessible from IR remote.
- Fast and accurate auto focus, plus auto white balance and auto exposure modes.
- Fast and quiet pan and tilt mechanism.
- Multi-element zoom lens with 10x optical zoom and a 60.9° horizontal field of view.
- Picture controls available for brightness, color, saturation, contrast, sharpness, and gamma.
- TCP/IP, RS-232, and IR control – convenient handheld IR remote control included.
- 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.
- Stereo 3.5 mm audio input available for AAC or MP3 streaming over IP.
- Easy, GUI-based configuration using integrated web server.
- 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, VISCA to RS-232 DB-9 adapter, lens cap, and external universal power supply.
- Available in black or white.
- Three-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

Audio	
Audio Compression	AAC, MP3
Sample Rate	16 kHz, 32 kHz, 44.1 kHz, 48 kHz
Sample Bits	16
Bit Rate	32 kbps - 128 kbps
Channels	Mono, Stereo

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	
HDBaseT OUT	1 x RJ45
LAN	1 x RJ45, 100Base-T
AUDIO IN	1 x 3.5 mm, stereo
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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