



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, audio, 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, audio, 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 for sending audio over the HDBaseT connection, and can be used 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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