PTZ Camera
with HDMI Output and USB

Introduction

The Atlona AT-HDVS-CAM-HDMI is an enterprise-grade PTZ camera designed for use in video conferencing and other applications such as lecture capture and distance education. It features HDMI output, as well as a USB 2.0 interface for video and camera control. Simultaneous video output is available through two interfaces. Through USB, the HDVS-CAM-HDMI seamlessly integrates with the Omega™ Series for a complete, automated conferencing system that includes AV and USB extension. The HDMI output is ideal for use with a video conferencing codec, lecture capture appliance, or PC equipped for video capture. The HDVS-CAM-HDMI delivers high performance, professional-quality imaging with video resolutions up to 1080p @ 60 Hz over HDMI and 1080p @ 30 Hz for USB 2.0, 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, training rooms, and many other environments. The HDVS-CAM-HDMI is available in black or white.

Applications

- **Meeting spaces and conference rooms**
  The HDVS-CAM-HDMI works together with the USB extension capability of the Omega Series devices to enable simple, clean connectivity from the front wall to the meeting table. At the same time, the HDMI output can be used for monitoring on a secondary display.
- **Classrooms and other instructional spaces**
  The HDVS-CAM-HDMI is ideal for distance learning and collaboration, as well as recording lectures. The HDMI and USB interfaces can be used simultaneously for conferencing and lecture capture applications.
- **Legacy video conferencing systems**
  This camera can provide an effective upgrade to existing codecs, by delivering high quality imaging performance over HDMI. The HDVS-CAM-HDMI also brings software video conferencing capability via USB.

Key Features

- Designed for video conferencing and other applications such as lecture capture and distance education.
- HDMI output.
- USB 2.0 interface for video and camera control.
- Simultaneous video output over HDMI and USB.
- 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.
- Delivers HD video resolutions including 1080p @ 60 Hz (176x144 up to 1080p @ 30 Hz over USB 2.0).
- 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.

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)[1]
Latency	175 ms

Camera	
Sensor	1/2.8” HD CMOS
Effective Pixels	16:9, 2.07 MP
Optical Zoom	*f* = 4.7 ~ 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	
HDMI OUT	1 - Type A, 19-pin, female
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	
BTU/h	40.9	
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	

Warranty	
Device	To view the product warranty, use the following link: https://atlona.com/warranty

Accessories

SKU	Description	
AT-HDVS-CAM-CMNT	Ceiling Mount Kit for AT-HDVS-CAM	
AT-LC-H2H-1M	LinkConnect 1 Meter HDMI to HDMI Cable	
AT-LC-H2H-2M	LinkConnect 2 Meter HDMI to HDMI Cable	
AT-LC-H2H-3M	LinkConnect 3 Meter HDMI to HDMI Cable	

Footnotes

(1) Tested using VLC media player connected to the camera.

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