

Tech Spec

RoboSHOT 12 USB

Enterprise-Class PTZ Conferencing Camera

999-9920-000 (North America), 999-9920-001 (Europe and UK), 999-9920-009 (Australia and New Zealand)

Features

- PTZ camera for huddle rooms and small to medium conference rooms
- 2.38 Megapixel (effective), full HD (native 1080p/60) image sensor
- 12x optical zoom, horizontal field of view of 73° in super-wide mode
- Simultaneous uncompressed USB 3.0 and IP (H.264) streaming outputs
- HDMI video output for local display
- Smooth, silent direct-drive motors for precise pan and tilt movements at up to 120° per second
- Tri-Synchronous Motion™ simultaneous-arrival pan/tilt/zoom movement
- Universal Video Class (UVC) drivers supported in Windows®, Mac® OS, and Linux operating systems, compatible with most UC conferencing applications
- Presenter-friendly IR remote control
- Integration-ready Telnet or serial RS-232 control
- Full administrative control via web interface; manage remotely while monitoring the stream separately.



Back of the Camera



- **12 VDC, 3.0 Amp power connector** – Connect only the power supply shipped with the camera.
- **Ethernet RJ-45** – Connect to the PoE+ (Power over Ethernet) Gigabit Ethernet port for power and network access for IP streaming and camera control via web interface or Telnet
- **USB 3.0 video device connector** – Streams uncompressed UVC standard video
- **HDMI video select switch** – Select the appropriate HDMI video output resolution for the near-end video display.
- **DIP switches** – Set IR frequency, IR on/off, image flip (camera is invertible), normal or Super-Wide mode, RS-232 baud rate, and color space for the HDMI output.
- **HDMI output** – Connect to the near-end video display.
- **RS-232 port** – Connect to a controller to manage the camera using a modified VISCA protocol.

What's Included

Each RoboSHOT 12 USB camera is shipped with these items:

- Vaddio IR Remote Commander
- 12 VDC, 3.0 A switching power supply and AC cord set (s)
- Thin Profile Wall Mount with mounting hardware
- EZCamera™ control adapter
- USB 3.0 type A to type B cable, 6 ft. (1.8m)
- Quick Start Guide

Basic Connection Diagram



Specifications

Camera and Image

Image device	1/2.8-type Exmor CMOS sensor	Pixels	2.14 million (effective)
IP (H.264) RTSP Video Resolutions	1080p down to 180p 1080p at 30/25/15; others 60/30/25/15	USB 3.0 (UVC) Video Resolutions	1080p down to 180p at 60/30/15
<i>IP and USB streams are simultaneous and can be at differing resolutions.</i>			
Pan angle and speed	± 170°, up to 120°/sec	Tilt angle and speed	+90° -30°, up to 120°/sec
Lens and horizontal FOV	10X optical zoom, 67.3° wide to 2.3° tele, f=3.8 mm to 38 mm, F1.8 to F3.4 Super-wide: 12X optical zoom, 73° wide to 6.6° tele, f=3.91 mm to 47 mm, F1.8 to F3.4		
Min. working distance	10mm (wide), 800 mm (tele)	Min. illumination	100+ lux recommended
Aperture/detail	16 steps	Gain	Auto or manual (28 steps)
Backlight compensation	On or off	White balance	Auto, ATW, indoor, outdoor, one-push, manual
Focusing system	Auto or manual	Noise reduction	On or off (6 steps)
Sync system	Internal	S/N ratio	Over 50 dB
Remote management	Web interface, Telnet, RS-232	Power	12 VDC, 3.0A or PoE+ (25 watts)

Physical and Environmental

Height	6.94" (176 mm)	Operating temperature	0°C to +40°C (32°F to 104°F)
Width	7.06" (179 mm)	Operating humidity (relative)	20% to 80% non-condensing
Depth	6.76" (172 mm)	Storage temperature	-20°C to +60°C (-4°F to 140°F)
Weight	4.85 lbs.(2.2 kg)	Storage humidity (relative)	20% to 95% non-condensing

Specifications are subject to change without notice.