#### Document Number 411-0000-10 Rev B - January 2017

# **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<sup>TM</sup> simultaneous-arrival pan/tilt/zoom movement
- Universal Video Class (UVC) drivers supported in Windows<sup>®</sup>, Mac<sup>®</sup> 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

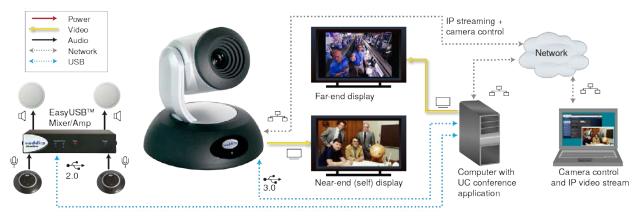
Each RoboSHOT 12 USB camera is shipped with these items:

- 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<sup>™</sup> control adapter
- USB 3.0 type A to type B cable, 6 ft. (1.8m)
- Quick Start Guide



# vaddio

## **Basic Connection Diagram**



## Specifications

#### Camera and Image

| Image device   | 1/2.8-type Exmor CMOS<br>sensor   | Pixels                             | 2.14 million (effective)                        |  |
|--|---|------------------------------------|---|--|
| IP (H.264) RTSP Video<br>Resolutions                                     | 1080p down to 180p<br>1080p at 30/25/15; others<br>60/30/25/15  | USB 3.0 (UVC) Video<br>Resolutions | 1080p down to 180p<br>at 60/30/15               |  |
| IP and USB streams are simultaneous and can be at differing resolutions. |   |                                    |   |  |
| 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<br>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,<br>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-<br>232   | Power                              | 12 VDC, 3.0A or PoE+ (25<br>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.

Vaddio is a brand of Milestone AV Technologies · www.vaddio.com · info@vaddio.com · 800.572.2011 / +1.763.971.4400 · Fax +1.763.971.4464 Visit us at support.vaddio.com for firmware updates, specifications, drawings, manuals, technical support information, and more. Vaddio, ConferenceSHOT, RoboSHOT, and EasyUSB are trademarks or registered trademarks of Milestone AV Technologies. All other brand names or marks are used for identification purposes and are trademarks of their respective owners. In British Columbia, Milestone AV Technologies ULC carries on business as MAVT Milestone AV Technologies ULC. © 2017 Milestone AV Technologies.