

A & E Specification

RoboSHOT 30 HD-SDI High-Definition PTZ Camera

999-9933-000 Black, North America/999-9933-001 Black, International
999-9933-000W White, North America/999-9933-001W White, International

Vaddio, LLC
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Description

The camera shall provide HD-SDI, HDMI, and IP streaming (H.264) outputs, and shall be designed for use in small to medium sized rooms such as conference rooms, training rooms, classrooms, houses of worship, presentation and entertainment venues, and other media applications.

The camera shall use a single control arm anchored with silent and smooth brushless DC direct drive motors for accurate and fast camera positioning and slow crawls suitable for on-air use.

The camera shall be capable of executing pan, tilt, and zoom movements simultaneously, handling motor speeds separately for each axis so that pan, tilt, and zoom movements are completed simultaneously.

The camera optics shall feature an optical zoom lens (12X in Super-Wide mode and 10X in normal mode) and an Exmor 1/2.8-Type, high-speed, low noise image sensor with a total of 2.38 megapixels.

The camera body shall incorporate an indicator to show camera status and IR sensors built into the front, to receive IR signals from a handheld remote control. The remote shall be included with the camera.

The camera shall be compatible with Vaddio camera controllers, mixers, and other equipment.

The camera and its wall mount bracket shall be available in black and white. The wall mount shall be included with the camera.

Configuration and control

It shall be possible to control the camera using a handheld IR remote control, a browser-based graphical user interface, or via command line using Telnet or a serial RS-232 connection.

- It shall be possible to program the remote to control up to three cameras.
- The web-based graphical user interface shall provide full physical and administrative control of the camera. It shall be accessed through commonly used web browsers including the current and next most recent versions of Chrome, Firefox, Safari, and Internet Explorer.
- The camera shall provide a command line API that can be accessed via RS-232 or Telnet session.

Installation requirements

The camera shall be designed to attach to a wall or ceiling mount in an indoor environment.

The camera shall support inverted operation with image flip and inversion of pan and tilt controls.

The camera shall use standard Cat-5e/Cat-6/Cat-7 cables made to the EIA/TIA 568B standard for network/PoE+ and RS-232 serial connections. Maximum cable length for Cat-5e cables shall be 328 ft (100m).

Specifications

The camera shall meet the following specifications:

Specification	Value
Switch-selectable video resolution/frequency	1080p60/59.94/50/30/25 1080i/60/59.94i/50 720p/60/59.94/50
Video aspect ratio	16:9 for all resolutions
Effective pixels	2.14 Million Effective pixels (2.38 Million Total Pixels)
Lens magnification and horizontal angles of view	30X Optical Zoom, 63.7° (wide mode) to 2.3° (tele) f=4.3mm (wide) to 129.0mm (tele); F1.6 to F4.7
Minimum illumination	1.0 lx (F1.8, 50IRE); recommended illumination 100 lux or more
Minimum working distance	10mm (wide), 1200mm (tele)
White balance	Auto, ATW, Indoor, Outdoor, One-push, Manual
Gain	Auto / Manual (0 to 28 steps - accessible through external control)
Focusing modes	Auto Focus / Manual Focus Mode / One Push Trigger Mode / Infinity Mode / Near Limit Mode
Noise reduction	6 Steps, Off through 5
Aperture/detail	16 Steps
Pan and tilt angle	Pan: ±160° Tilt: +90°, -30°
Pan and tilt speed	Minimum: 0.35°/sec Maximum: 120°/sec
Video outputs	<ul style="list-style-type: none"> ▪ HD-SDI ▪ HDMI
Streaming	Simultaneous IP (RTSP format with H.264 compression) up to 1080p/30
Network connection	PoE+ (IEEE 802.3at), Gigabit Ethernet