

A & E Specification

RoboSHOT 30 HDBT

High-Performance PTZ Camera

North America: 999-9963-000 (black), 999-9963-000W (white) Europe and UK: 999-9963-001 (black), 999-9963-001W (white) Australia and New Zealand: 999-9963-009 (black), 999-9963-009W (white)

Description

The camera shall be designed for use in medium to large venues such as houses of



worship, auditoriums, lecture theaters, and IMAG systems. It shall provide enterprise-

class features including IP streaming and network control via web interface. It shall also support remote automation via Telnet or RS-232 command line API.

The camera optics shall feature a 30x optical zoom lens. The camera shall use a 1/2.8-type, high-speed, low noise, backlit CMOS image sensor with 2.38 total megapixels (2.14 megapixels effective).

The camera shall provide HDMI[®] output plus IP (H.264) streaming.

The camera shall use silent, brushless DC direct drive motors for accurate camera positioning and smooth motion, providing pan and tilt speeds from 0.35° to 120° per second.

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 IR remote control.

The camera shall be designed for use with the Vaddio OneLINK HDMI camera extension module for HDBaseT cameras, and shall be compatible with Vaddio camera controllers, mixers, and other equipment.

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.

A handheld IR remote control shall be included with the camera. It shall be possible to use 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®.

Installation Requirements

Maximum cable length for Cat-5e cables shall be 328 ft (100m). The camera shall be designed for use with a Vaddio OneLINK HDMI camera extension module, which allows an additional 328 ft (100 m) cable length.

The camera shall be designed to attach to a wall or ceiling mount in an indoor environment. A wall mounting shelf shall be provided with the camera.

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 for network and control connections.

Specifications

Camera and image

RoboSHOT 30 HDBT: 1/2.8-Type Exmor R™ backlit CMOS sensorPixels2.14 million (effective), 2.38 million (total)Pan and tiltPan ± 160°, tilt +90° -30°; pan and tilt speed 0.35°/sec to 120°/secLens and horizontal FOVRoboSHOT 12 HDBT Normal (default): 10X optical zoom, 67.3° (wide) to 7.6° (tele), f=3.8mm to 38.0mm, F1.8 to F3.4 Super Wide: 12X optical zoom, 73.0° (wide) to 6.6° (tele), f=3.91mm to 47.0mm, F1.8 to F3.4 RoboSHOT 30 HDBT 30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7Min. working distanceRoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele)Min. illuminationRecommended: 100+ luxGainAuto / Manual (28 steps)Backlight compensationOn/offAperture/detail16 steps			â		
Pixels 2.14 million (effective), 2.38 million (total) Pan and tilt Pan ± 160°, tilt +90° -30°; pan and tilt speed 0.35°/sec to 120°/sec Lens and horizontal FOV RoboSHOT 12 HDBT Normal (default): 10X optical zoom, 67.3° (wide) to 7.6° (tele), f=3.8mm to 38.0mm, F1.8 to F3.4 Super Wide: 12X optical zoom, 73.0° (wide) to 6.6° (tele), f=3.91mm to 47.0mm, F1.8 to F3.4 RoboSHOT 30 HDBT 30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7 Min. working distance RoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele) Min. illumination Recommended: 100+ lux Gain Auto / Manual (28 steps) Backlight compensation On/off Aperture/detail 16 steps	Image device	RoboSHOT 12 HDBT: 1/2.8-Type Exmor [®] CMOS sensor			
Pan and tiltPan ± 160°, tilt +90° -30°; pan and tilt speed 0.35°/sec to 120°/secLens and horizontal FOVRoboSHOT 12 HDBT Normal (default): 10X optical zoom, 67.3° (wide) to 7.6° (tele), f=3.8mm to 38.0mm, F1.8 to F3.4 Super Wide: 12X optical zoom, 73.0° (wide) to 6.6° (tele), f=3.91mm to 47.0mm, F1.8 to F3.4 RoboSHOT 30 HDBT 30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7Min. working distanceRoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele)Min. illuminationRecommended: 100+ luxGainAuto / Manual (28 steps)Backlight compensationOn/offAperture/detail16 steps		RoboSHOT 30 HDBT: 1/2.8-Type Exmor R™ backlit CMOS sensor			
Lens and horizontal FOVRoboSHOT 12 HDBT Normal (default): 10X optical zoom, 67.3° (wide) to 7.6° (tele), f=3.8mm to 38.0mm, F1.8 to F3.4 Super Wide: 12X optical zoom, 73.0° (wide) to 6.6° (tele), f=3.91mm to 47.0mm, F1.8 to F3.4 RoboSHOT 30 HDBT 30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7Min. working distanceRoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele)Min. illuminationRecommended: 100+ luxGainAuto / Manual (28 steps)Backlight compensationOn/offAperture/detail16 steps	Pixels	2.14 million (effective), 2.38 million (total)			
Normal (default): 10X optical zoom, 67.3° (wide) to 7.6° (tele), f=3.8mm to 38.0mm, F1.8 to F3.4 Super Wide: 12X optical zoom, 73.0° (wide) to 6.6° (tele), f=3.91mm to 47.0mm, F1.8 to F3.4 RoboSHOT 30 HDBT 30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7Min. working distanceRoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele)Min. illuminationRecommended: 100+ luxGainAuto / Manual (28 steps)Backlight compensationOn/offAperture/detail16 steps	Pan and tilt	Pan ± 160°, tilt +90° -30°; pan and tilt speed 0.35°/sec to 120°/sec			
Super Wide: 12X optical zoom, 73.0° (wide) to 6.6° (tele), f=3.91mm to 47.0mm, F1.8 to F3.4 RoboSHOT 30 HDBT 30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7 Min. working distance RoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele) Min. illumination Recommended: 100+ lux Gain Auto / Manual (28 steps) Backlight compensation On/off	Lens and horizontal FOV	RoboSHOT 12 HDBT			
RoboSHOT 30 HDBT 30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7 Min. working distance RoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele) Min. illumination Recommended: 100+ lux Gain Auto / Manual (28 steps) Backlight compensation On/off		Normal (default): 10X optical zoom, 67.3° (wide) to 7.6° (tele), f=3.8mm to 38.0mm, F1.8 to F3.4			
30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7 Min. working distance RoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele) Min. illumination Recommended: 100+ lux Gain Auto / Manual (28 steps) Backlight compensation On/off Aperture/detail 16 steps		Super Wide: 12X optical zoom, 73.0° (wide) to 6.6° (tele), f=3.91mm to 47.0mm, F1.8 to F3.4			
Min. working distance RoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele) RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele) Min. illumination Recommended: 100+ lux Gain Auto / Manual (28 steps) Backlight compensation On/off Aperture/detail 16 steps		RoboSHOT 30 HDBT			
RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele) Min. illumination Recommended: 100+ lux Gain Auto / Manual (28 steps) Backlight compensation On/off Aperture/detail 16 steps		30X optical zoom, 65° (wide) to 2.3° (tele), F1.6 to F4.7			
Min. illuminationRecommended: 100+ luxGainAuto / Manual (28 steps)Backlight compensationOn/offAperture/detail16 steps	Min. working distance	RoboSHOT 12 HDBT: 10mm (wide), 0.8m (tele)			
Backlight compensation On/off Aperture/detail 16 steps		RoboSHOT 30 HDBT: 10mm (wide), 1.2m (tele)			
	Min. illumination	Recommended: 100+ lux	Gain	Auto / Manual (28 steps)	
Focusing system	Backlight compensation	On/off	Aperture/detail	16 steps	
Autor ocus / Manuar ocus Mode / One Push Thyger Mode / Mining Mode / Mear Linit Mode	Focusing system	Auto Focus / Manual Focus Mode / One Push Trigger Mode / Infinity Mode / Near Limit Mode			
White balance Auto, ATW, Indoor, Outdoor, One-push, Manual	White balance	Auto, ATW, Indoor, Outdoor, One-push, Manual			
Sync system Internal S/N ratio More than 50 dB	Sync system	Internal	S/N ratio	More than 50 dB	
Noise reduction On/Off, 6 Steps Power 12 VDC, 3.0 A or PoE+	Noise reduction	On/Off, 6 Steps	Power	12 VDC, 3.0 A or PoE+	
Remote management IR Remote Commander, web interface, Telnet and RS-232 command APIs	Remote management	IR Remote Commander, web interface, Telnet and RS-232 command APIs			

Physical and Environmental

Height	6.9 in. (176 mm)	Weight	4.85 lbs.(2.2 kg)
Width	7.1 in. (179 mm)	Operating/storage temperature	0°C to +40°C (32°F to 104°F)
Depth	6.8 in. (172 mm)	Operating/storage humidity	20% to 80% RH, 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, RoboSHOT, and OneLINK 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.