H4 Video Intercom



The H4 Video Intercom integrates a 3 MP fisheye camera with a high-performance intercom and features exceptional wide dynamic range, low-light, noise reduction, and echo-cancelling technologies for clear viewing and two-way communication with visitors. Combined with Avigilon Control Center (ACC) video management software, this secured entry system enables operators to quickly and easily identify and communicate with a visitor before remotely granting access. The H4 Video Intercom also supports Avigilon Appearance Search™ technology, which enables security operators to locate a specific person of interest quickly across all cameras on a site.

The H4 Video Intercom serves as a first line of defense for facilities where securing main entry points is critical. It can help schools verify campus access, provide parking entry to approved guests at hotels, and offer after-hours entry to retail staff. By providing and restricting access, the H4 Video Intercom helps enhance security while also maintaining convenience.

The innovative weather-, vandal-, and tamper-resistant, aluminum housing and adapter easily fit installations on walls and door frames, both indoors and outdoors. Its 3 MP wide-angle camera provides exceptional image quality even under challenging conditions with LightCatcher™ technology, triple exposure, true Wide Dynamic Range (WDR), and adaptive infrared (IR) technologies. The integrated, single-button intercom provides an easy way to communicate with your Avigilon Control Center™ client for entry control. Digital inputs and outputs can easily interface to any door locks. The camera uses HDSM SmartCodec™, Idle Scene Mode, and patented High Definition Stream Management (HDSM)™ technologies to reduce bandwidth and storage while maintaining high image quality.

KEY FEATURES

- 3 MP 170 degree wide-angle fisheye lens offers extended field of view to clearly capture individuals of different heights.
- Provides high quality clear bi-directional communication using noise reduction and echo-cancellation.
- Weather-, vandal-, and tamper-resistant, aluminum housing together with physical tamper detection offers reliable strength and durability.
- LightCatcher technology provides exceptional image quality in low light environments.
- Triple exposure Wide Dynamic Range for complex lighting environments.
- Integrated IR LEDs provide uniform illumination in the dark, even at 0 lux.
- Input and outputs for remote control of door locks and other equipment.
- Avigilon Appearance Search technology for fast video search across all cameras.
- Avigilon Facial Recognition technology to help with caller verification.
- Single network connection for video and audio using PoE.
- Easy door grant access via ACC™, ACC mobile 3 app, and ACM™ integration.
- HDSM SmartCodec technology reduces bandwidth and storage requirements.
- Session Initiation Protocol (SIP) support for peer to peer and PBX voice calls.

Specifications

			3.0 MP
IMAGE PERFORMANCE	Image Sensor		1/2.8" Progressive Scan CMOS
	Aspect Ratio		4:3
	Active Pixels (H x V)		2048 (H) x 1536 (V)
	Imaging Area (H x V)		3.7 mm x 3.0 mm, 0.145" x 0.118"
	Imaging Rate		30 fps
	Minimum Illumination	With IR	0 lux
		Without IR	0.14 lux (F2.4) in color mode; 0.03 lux (F2.4) in monochrome mode
	IR Illumination		5 m (15 ft) max. distance at 0 lux
	Dynamic Range		100 dB
	Dynamic Range (WDR enabled)		120 dB triple exposure (20 fps or less); 100 dB dual exposure (30 fps)
	Resolution Scaling		Down to 384 x 216
	3D Noise Reduction Filter		Yes
LENS	Lens		1.83mm, F2.4, IR Corrected
	Angle of View (H x V)		170° x 120°
IMAGE CONTROL	Image Compression Method		H.264 (MPEG-4 Part 10/AVC), Motion JPEG
	Streaming		Multi-stream H.264 and Motion JPEG
	Bandwidth Management		HDSM SmartCodec technology; Idle scene mode
	Video Compression		H.264/MJPEG/HDSM SmartCodec technology
	Motion Detection		Pixel
	Tamper Detection		Yes
	Electronic Shutter Control		Automatic, Manual (1/6 to 1/8000 sec)
	Iris Control		Fixed
	Day/Night Control		Automatic, Manual
	Flicker Control		50 Hz, 60 Hz
	White Balance		Automatic, Manual
	Backlight Compensation		Adjustable
	Privacy Zones		Up to 64 zones
AUDIO CONTROL	Audio Streaming		Two-way, Full Duplex
	Audio Compression Method		Opus, G.711
	Audio Output		90 dB at 1m (3.3")
	Audio Input/Output		Built-in microphone with hardware disable / Built-in speaker
	Echo Cancellation		Yes
	Noise Reduction		Yes
NETWORK	Network		100BASE-TX
	Cabling Type		CAT5
	Connector		RJ-45
	ONVIF®		ONVIF compliant with version 1.02, 2.00, Profile S, Profile G
	Security		Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication
	Protocols		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP, HSTS
	Streaming Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP
	Session Initiation Protocol (SIP)		Integration support for Peer to Peer and PBX voice only calls
	Device Management Protocols		SNMP v2c, SNMP v3
PERIPHERALS	External I/O Terminals		Alarm In (1), Alarm Out (2), Tamper Out (1)
	Onboard Storage		microSD/microSDHC/microSDXC slot – video speed class card required. Class V10 or better recommended.
	Tamper Detection Switch		Yes
			RECESSED MOUNT / **SURFACE MOUNT**
MECHANICAL	Dimensions (LxWxH)		227 mm x 120 mm x 75.9 mm (35.8mm proud of wall) 8.94" x 4.72" x 2.99" (1.41" proud of wall) / 227 mm x 120 mm x 99.6 mm 8.94" x 4.72" x 3.92"
	Weight		1,230 g; 2.71 lb / 2,450 g; 5.40 lb
	Body		Aluminum; Bubble: Polycarbonate
	Housing		Recessed Mount, Tamper Resistant / Surface Mount, Tamper Resistant
	Finish		Powder Coat, Silver
ELECTRICAL	Power Consumption		10W
	Power Source		PoE: IEEE802.3af Class 3 compliant VDC: 12V +/- 10%, 10W min
	RTC Backup Battery		3V manganese lithium
ENVIRONMENTAL	Operating Temperature		-40 °C to 60 °C (-40 °F to 140 °F)
	Storage Temperature		-10 °C to 70 °C (14 °F to 158 °F)
	Humidity		0-95% non-condensing
CERTIFICATIONS	Certifications/Directives		UL, cUL, CE, UKCA, ROHS, RCM, KC, BSMI
	Safety		UL 62368-1 / CSA 62368-1 / IEC/EN 62368-1 / IEC 62471
	Environmental		IK10 Impact Rating on enclosure and IK08 on bubble / IP66 Rating
	Electromagnetic Emissions		FCC Part 15 Subpart B Class B / IC ICES-003 Class B / EN 55032 Class B / EN 61000-6-3 / EN 61000-3-2 / EN 61000-3-3
	Electromagnetic Immunity		EN 55024 / EN 61000-6-1

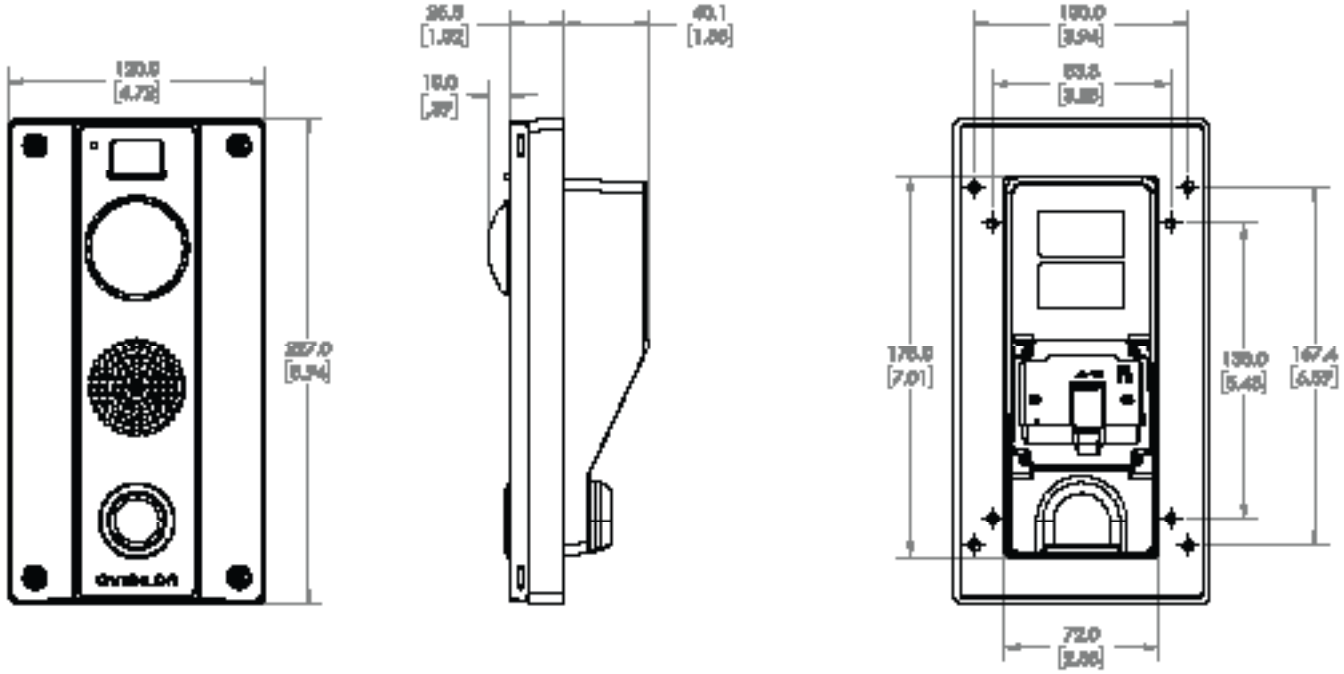
AVIGILON CONTROL CENTER VERSIONS SUPPORTED FEATURES*	Minimum: ACC Version 6.10.2.8 or higher ACC Version 7.0.0.28 or higher	Initial support for the intercom workflow and Opus codec. All supported analytic events with two types of classified objects: person or vehicle. Appearance search when paired with appropriate server hardware.
	Recommended: ACC Version 7.8.0.32 or higher	Adds the intercom call workflow support with ACC Mobile. All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. Appearance search when paired with appropriate server hardware.

* Standard or Enterprise edition is required.

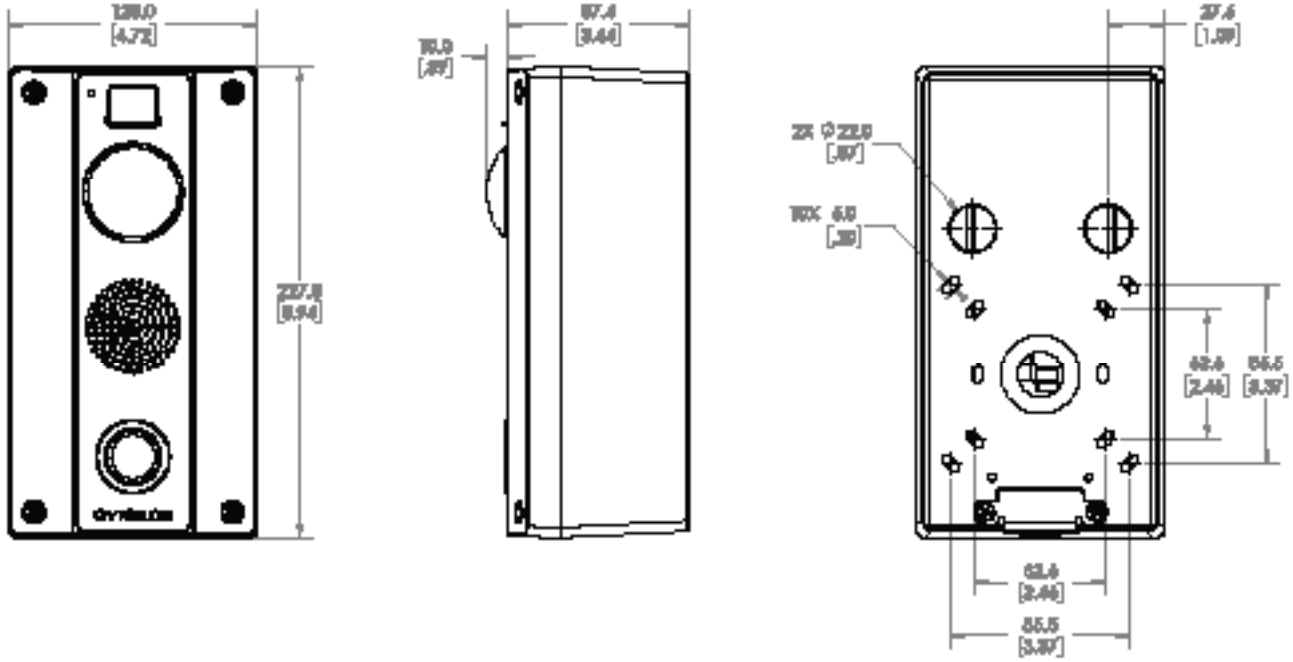
Outline Dimensions

[X.X]	INCHES
X	MM

Recessed Mount



Surface Mount



Ordering Information

	MP	WDR	LightCatcher Technology	IR	HDSM SmartCodec Technology
3.0C-H4VI-RO1-IR	3.0	✓	✓	✓	✓

Accessories Part Numbers

H4VI-AC-RELY1	Safety Relay for H4 Video Intercom
H4VI-MT-SURF1	Surface mount adapter for H4 Video Intercom
H4VI-RO-CVER1	Replacement dome cover for the H4VI camera, package of 5

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