

H4 Thermal Camera Line









Scenes captured with H4 Thermal VGA camera.

Features



SELF-LEARNING VIDEO ANALYTICS

Detect and classify objects in challenging lighting/ darkness or extreme environments such as weather, dust, debris, smoke or foliage.



HDSM SMARTCODEC[™] TECHNOLOGY Optimizes compression levels for regions in a scene to help maximize bandwidth savings, helping to keep internet connectivity costs down.



ONVIF® COMPLIANT

Built on an open platform to allow integration with other security solutions.



MULTIPLE LENS OPTIONS

Choose from three athermalized lens variants to optimize on-site coverage requirements.



RELAY I/O CONNECTIONS

Configure input/output actions and alarms for fast event response.



MADE IN NORTH AMERICA

Manufactured in North America* using globally-sourced materials and North American expertise, Avigilon stands behind the quality of its products.

* With manufacturing facilities in both the United States and Canada, our "Made In North America" claim only applies to products from our Plano, Texas and Richmond, British Columbia facilities.

Specifications

MAGE	Image Sensor		QVGA 320x256 Uncoole	d VOx Microbolomete	er		VGA 640x512 Uncooled VOx Microbolometer		
PERFORMANCE	Pixel Pitch		320x256 Uncooled VOx Microbolometer 640x512 Uncooled VOx Microbolometer 12μm						
	Spectral Range		12µm 8µm to 14µm						
	Aspect Ratio		5:4						
	Imaging Rate		8.6 fps						
	Dynamic Range		-40 °C to 225 °C (-40 °F to 437 °F) [may vary based on operating temperature]						
	Resolution Scaling		320x256, can be scaled up to 640x512 640x512, can be scaled down to 320x256						
	3D Noise Reduction Filter		Yes						
	Sensitivity		NETD <60mK						
	Image Uniformity Optimization		Automatic Flat Field Correction (FFC) - Thermal and Temporal						
LENS	Lens		4.3 mm, F1.0, Athermalized	9.1 mm, F1.0, Athermalized	18.0 mm, F1.0, Athermalized	8.7 mm, F1.0, Athermalized	18.0 mm, F1.0, Athermalized	36.0 mm, F1.0, Athermalized	
	Angle of View (H	Η x V)	45.9° x 36.5°	21.6° x 17.0°	10.8° x 8.4°	50.7° x 40.4°	24.3° x 19.3°	12.2° x 9.7°	
AGE CONTROL	Image Compression Method		H.264 (MPEG-4 Part 10/AVC), Motion JPEG						
	Streaming		Multi-stream H.264 & MJPEG						
	Bandwidth Management		Idle Scene Mode, HDSM SmartCodec Technology						
	Motion Detection		Pixel and Classified Objects						
	Tamper Detectio		Yes N/A						
	Privacy Zones		Up to 64 Zones						
	Audio Compression Method		G.711 PCM 8kHz						
ETWORK	Network		100BASE-TX						
			CAT5						
	Cabling Type		RJ-45						
	Connector ONVIF		RJ-45 ONVIF® compliant with Profile S and Profile T (www.onvif.org) ONVIF® compliant with Profile S (www.onvif.org)						
	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						
	Streaming Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP						
	Device Management Protocols		SNMP v2c, SNMP v3						
ERIPHERALS	USB Port		USB 2.0						
	Onboard Storage		SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended						
	External I/O Terr	ninals	Alarm In, Alarm Out						
	Audio Input/Output		Line level input and output						
ECHANICAL	Dimensions (LxV	VxH)	335 mm x 126 mm	x 91 mm; 13.18" x 4.97	" x 3.58" (including mo	unting bracket and fu	Ily extended sunshiel	d overhang)	
	Weight	Camera	1.72 kg (3.79 lbs)					1.92 kg (4.23 lb	
		Mounting Bracket	0.21 kg (0.46 lbs)						
	Body		Aluminium						
	Housing		Surface mount, tan	nper resistant					
	Finish		Powder coat, RAL 9003						
	Adjustment Range		±175° pan, ±90° tilt, ±175° azimuth						
ECTRICAL	Power Consumption		8W 9W						
	Power Source		VDC: 12V +/- 10%, 8W min. VAC: 24V +/- 10%, 15VA min. PoE: IEEE802.3af Class 3 compliant			VDC: 12V +/- 10%, 9W min. VAC: 24V +/- 10%, 15VA min. PoE: IEEE802.3af Class 3 compliant			
	RTC Backup Battery		3V manganese lith	ium					
ENVIRONMENTAL	Operating Temperature		-40 °C to +65 °C (-40 °F to 149 °F)						
	Storage Temperature		-10 °C to +70 °C (14 °F to 158 °F)						
	Humidity		0 - 93% non-conde	ensing					
ERTIFICATIONS	Certifications/Directives		UL, cUL, CE, ROHS, Reach (SVHC), WEEE, RCM, EAC UL, cUL, CE, ROHS, Reach (SVHC), WEEE, RCM						
	Safety		UL 62368-1, CSA 6	2368-1, IEC/EN 6236	8-1				
	Environmental		UL/CSA/IEC 60950-22, IEC 60529 IP66 Weather Rating, IK10 Impact Rating (including window) UL/CSA/IEC 60950-22, IEC 60529 IP66 and IP Rating, IK10 Impact Rating (enclosure only)						
	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	Emissions	FCC Part 15 Subpa	IT D Class D, IC ICLS-	000 Class D, EI (00002	Class B, EN Cloce C	5, EN 01000 5 2, EN	01000-3-3	

SUPPORTED VIDEO ANALYTIC EVENTS	Objects in Area The event is triggered when the selected object type moves into the region of interest.						
	Object Loitering The event is triggered when the selected object type stays within the region of interest for an extended amount of time.						
	Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.					
	Object Appears or Enters Area	The event is triggered by each object that enters the region of interest. This event can be used to count objects.					
	Object Not Present in Area The event is triggered when no objects are present in the region of interest						
	Objects Enter Area	Enter Area The event is triggered when the specified number of objects have entered the region of interest.					
	Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.					
	Object Stops in Area	The event is triggered when an object in a region of interest stops moving for the specified threshold time.					
	Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.					
	Tamper Detection	Detection The event is triggered when the scene unexpectedly changes.					
	FOCAL LENGTH	RESOLUTION	VIEWING ANGLE (H X V)	HUMAN	VEHICLE		
CLASSIFIED OBJECT DETECTION	4.3 mm	320 x 256	45.9° x 36.5°	68m (224')	80m (263')		
	9.1 mm	320 x 256	21.6° x 17.0°	150m (493')	160m (525')		
RANGE	18 mm	320 x 256	10.8° x 8.4°	220m (722')	225m (739')		
	8.7 mm	640 x 512	50.7° x 40.4°	120m (394')	142m (466')		

24.3° x 19.3°

12.2° x 9.7°

36 mm The detection ranges may vary in different weather conditions.

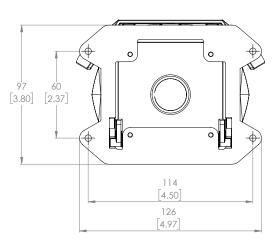
640 x 512

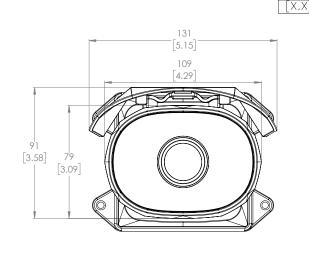
640 x 512

Outline Dimensions

18 mm

Camera





210m (689')

310m (1017')

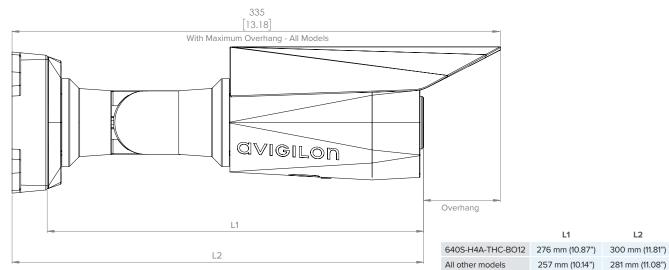
225m (739')

319m (1047')

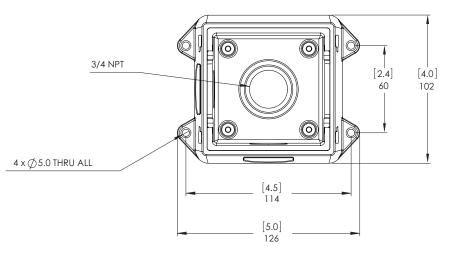
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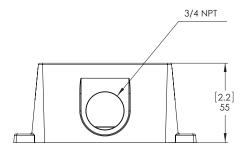
MM

INCHES



Junction Box





Ordering Information

	Resolution	NETD	Lens	HDSM SmartCodec
320S-H4A-THC-BO50	320 x 256	< 60 mK	4.3 mm	\checkmark
320S-H4A-THC-BO24	320 x 256	< 60 mK	9.1 mm	\checkmark
320S-H4A-THC-BO12	320 x 256	< 60 mK	18 mm	\checkmark
640S-H4A-THC-BO50	640 x 512	< 60 mK	8.7 mm	\checkmark
640S-H4A-THC-BO24	640 x 512	< 60 mK	18 mm	\checkmark
640S-H4A-THC-BO12	640 x 512	< 60 mK	36 mm	\checkmark

H4-BO-JBOX1	Junction box for H4 HD Bullet Cameras
H4-MT-POLE1	Aluminum pole mounting bracket
H4-MT-CRNR1	Aluminum corner mounting bracket
H4-AC-WIFI2-NA	USB Wifi Adapter
H4-AC-WIFI2-EU	USB Wifi Adapter