H4 HD Bullet Camera with Self-Learning Video Analytics



Avigilon offers a broad range of high definition cameras – from 1-5 MP and 4-7K (based on horizontal resolution) – and are available in a variety of formats, including dome, panoramic and fixed. Whether it's a small storefront that requires a few cameras or a large complex system requiring complete coverage of numerous areas, you can trust that you're getting an exceptional solution for your security needs.

The innovative H4 HD Bullet camera is just one way Avigilon can help provide effective monitoring and protection.





The H4 HD Bullet camera from Avigilon is ideal for seeing objects and activity in complete darkness. Embedded with self-learning video analytics, the H4 HD cameras seamlessly integrate with Avigilon Control Center (ACC)™, allowing security personnel to respond proactively and mitigate an incident before damage is done. With unique adaptive IR technology, this camera provides both wide and narrow illumination, enabling consistent illumination in complete darkness to enhance image quality regardless of scene conditions. Avigilon bullet cameras are equipped with new Triple Exposure Ultra-Wide Dynamic Range (WDR) and patented LightCatcher™ technology, ensuring you receive excellent image detail. Onboard storage capabilities let you manage storage directly on the camera using a standard SD memory card. The bullet camera is effective at monitoring a variety of environments that require discreet nighttime coverage, including parking lots, campuses and industrial yards.

KEY FEATURES

1-5 megapixel and 4K Ultra HD (8 MP) resolution

Patented Advanced Video Pattern Detection and Teach by Example Technology

Self-learning video analytics

Patented High Definition Stream Management (HDSM)™ Technology

Available with 3-9 mm F1.3, 4.3-8 mm F1.8, or 9-22 mm F1.6 P-Iris lens with remote focus and zoom

Wifi camera configuration support

Avigilon LightCatcher technology provides exceptional image quality in low light environments

Triple Exposure Ultra Wide Dynamic Range (1-3 MP models)

Integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to maximum of 70 m (230 ft) away

Zoom and content adaptive IR provides effective illumination throughout zoom positions, while maintaining the best scene illumination

Factory pre-configured image preset modes for maximum image performance in variety of lighting conditions

Idle Scene Mode lowers bandwidth and storage usage if there are no motion events detected in the scene

Vandal resistant construction and IP66 compliant

ONVIF compliant with version 2.2.0 of the Analytics Service Specification

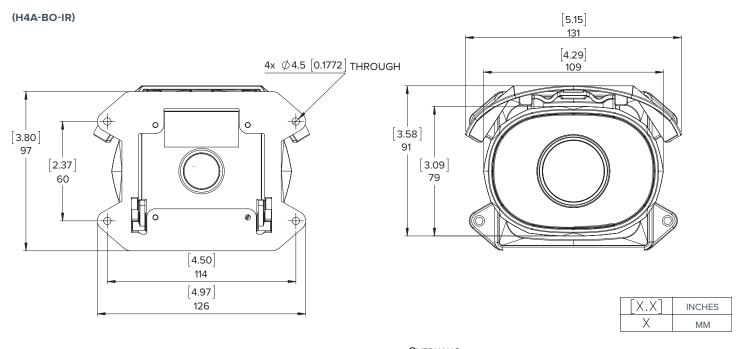
Specifications

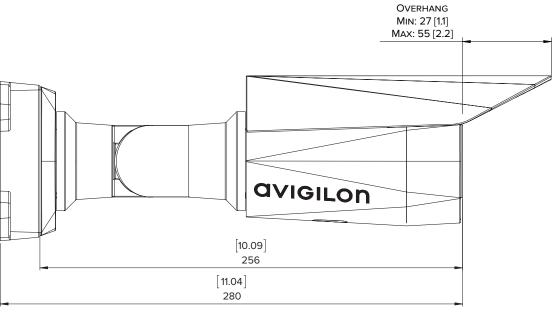
Оробии	0.0.0.		1.0 MP	2.0 MP	3.0 MP	5.0 MP	4K ULTRA HD (8.0 MP)		
IMAGE	Image Senso	or	1/2.8" progressive	scan CMOS		1/1.8" progressive scan CMC	OS 1/2.3" progressive scan CMOS		
PERFORMANCE	Aspect Ratio		16:9		4:3		16:9		
	Active Pixels	(H x V)	1280 x 720	1920 x 1080	2048 x 1536	2592 x 1944	3840 x 2160		
	Imaging Area		4.8 mm x 2.7mm;		5.12 mm x 3.84 mm; 0.202" x 0.151"	6.22 mm x 4.66 mm; 0.245"			
		n 3 - 9 mm lens:			30 m (98 ft) at -25 °C (-13 °F) or lower		N/A		
	(high power 850 nm LEDs	12 0			20 (50) at 20 0 (10 . 7 6) 10	50 m (164 ft) max. distance a 25 m (82 ft) at -25 °C (-13 °F)	at 0 lux; 30 m (98 ft) max. distance at 0 lux;		
		9 - 22 mm lens:	70 m (230 ft) max	distance at 0 lux;	N/A				
	Minimum	3 - 9 mm lens:	0.04 lux (F1.3) in c	olor mode; 0 lux (F	F1.3) in monochrome mode with IR	N/A	N/A		
	Illumination 4.3 - 8 mm lens:				,	0.033 lux (F1.8) in color mod 0 lux (F1.8) in monochrome	de; 0.29 lux (F1.8) in color mode;		
	9 - 22 mm lens:		0.08 lux (F1.6) in c	olor mode; 0 lux (F	F1.6) in monochrome mode with IR	with IR 0.026 lux (F1.6) in color mod 0 lux (F1.6) in monochrome r with IR	de; N/A mode		
	Image Rate (I	Full Resolution)	30 fps		30 fps (20 fps with WDR enabled)	30 fps	20 fps (30 fps in High Framerate mode)		
	Dynamic Ran	ige	67 dB			83 dB	91 dB		
	Dynamic Ran	ige (WDR enabled)	120 dB triple expo	sure (20 fps or les	ss); 100 dB dual exposure (30 fps)	N/A	N/A		
	Resolution So	caling	Down to 768 x 43	2		Down to 1792 x 1344	Down to 3072 x 1728		
	Camera Operating Mode		N/A		Full Feature or High Framerate mode (HDSM 2.0 and analytics disabled in High Framerate mode)				
							ramerate mode)		
LENS		3 - 9 mm lens:	F1.3, P-Iris, remote focus and zoom						
		4.3 - 8 mm lens:	F1.8, P-Iris, remote focus and zoom						
		9 - 22 mm lens:	F1.6, P-Iris, remote focus and zoom						
		3 - 9 mm lens:	30° – 91°		32° – 98°	N/A			
	View	4.3 - 8 mm lens:	N/A		N/A	46° – 86°	44° – 81°		
		9 - 22 mm lens:	14° – 29°		15° – 31°	18° – 41°	N/A		
IMAGE CONTROL	Image Compression Method		H.264 (MPEG-4 Pa	•					
	Streaming		Multi-stream H.264 and Motion JPEG						
	Bandwidth M		(1.0 - 3.0 MP) HDSM; (5.0 MP and 4K Ultra HD) HDSM 2.0; (ALL) Idle Scene Mode						
	Motion Dete		Pixel and classified objects						
	Camera Tampering Detection		Yes						
	Electronic Shutter Control		Automatic, Manual (1/6 to 1/8000 sec)						
	Iris Control		Automatic, Manual						
	Day/Night Control		Automatic, Manual						
	Flicker Control		50 Hz, 60 Hz						
	White Balance		Automatic, Manual						
	Backlight Compensation		Adjustable Up to 64 zenes						
	Privacy Zones		Up to 64 zones						
	Audio Compression Method		G.711 PCM 8 kHz						
	Audio Input/Output		Line level input and output						
	External I/O Terminals USB Port		Alarm In, Alarm Out USB 2.0						
	O3B FOIL		O3B 2.0						
NETWORK	Network		100BASE-TX						
	Cabling Type		CAT5						
	Connector		RJ-45						
	ONVIF		ONVIF compliant with version 1.02, 2.00, Profile S and 2.2.0 of the Analytics Service Specification ("bounding boxes and scene descriptions not available with third-party VMS)						
	Security		Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication						
	Protocol		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						
MECHANICA	Dimons's-	(I ~\\\\\\\\	126 mm v 200 :	v Q1 mm: 4 Q7"	11 04" v 2 50" (including	ackat)			
MECHANICAL	Dimensions (LxWxH)		126 mm x 280 mm x 91 mm; 4.97" x 11.04" x 3.58" (including mounting bracket)						
	Weight Camera: Mounting Bracket:		1.71 kg (3.77 lbs) 0.21 kg (0. 46 lbs)						
	Body Mounting Bracket:		Aluminum						
	Housing		Surface mount, tamper resistant						
	Finish		Powder coat, RAL 9003						
	Adjustment Range		±175° pan, ±90° tilt, ±175° azimuth						
	Onboard Storage		SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended						
ELECTRICAL	Power Consumption		13 W						
	Power Source		VDC: 12 V ± 10%, 13 W min VAC: 24 V ± 10%, 19 V/			A min PoE: IEEE802.3af Class 3 compliant			
	RTC Backup Battery		3V manganese lithium			,			
			3						
ENVIRONMENTAL	Operating Temperature		-40 °C to +55 °C (-		to 122 °E\				
			(8.0 MP only) -35 °C to +50 °C (-31 °F to 122 °F) IR illuminator will not turn on if temperature is 45 °C (113 °F) or higher						
	Storage Temperature		-10 °C to +70 °C (14 °F to 158 °F)						
	Humidity		0 - 95% non-cond	•					
			22.2.1.0.1.00110						

CERTIFICATIONS	Certifications/Directives	UL	cUL	CE	ROHS	WEEE	RCM			
	Safety	UL 60950-1		CSA 60950-1		IEC/EN 60950-1	IEC 62471			
	Environmental	IK10 Impact Rating		UL/CSA/IEC 60950-22		IEC 60529 IP66 Rating				
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B		IC ICES-003 Class B		EN 55022 Class E	Class B EN 61000-6-3 EN 61000-3-2 EN		EN 61000-3-3	
	Electromagnetic Immunity	EN 55024				EN 61000-6-1				
SUPPORTED VIDEO ANALYTICS	Objects in Area	The event is triggered when the selected object type moves into the region of interest.								
EVENTS	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 has 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	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	The event is triggered when the scene unexpectedly changes.								

Outline Dimensions

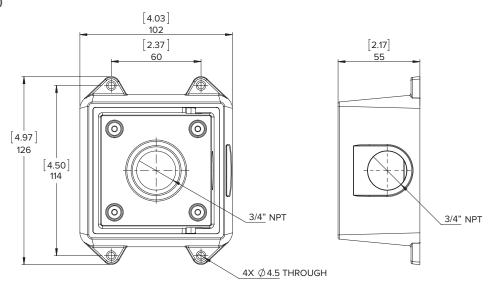
Bullet Camera





HD Bullet Camera Junction Box

(H4-BO-JBOX1)



Ordering Information

	MP	WDR	LIGHTCATCHER	ANALYTICS	LENS	IR
1.0C-H4A-BO1-IR	1.0	✓	✓	✓	3 - 9 mm	✓
1.0C-H4A-BO2-IR	1.0	✓	✓	✓	9 - 22 mm	✓
2.0C-H4A-BO1-IR	2.0	✓	✓	✓	3 - 9 mm	✓
2.0C-H4A-BO2-IR	2.0	✓	✓	✓	9 - 22 mm	✓
3.0C-H4A-BO1-IR	3.0	✓	✓	✓	3 - 9 mm	✓
3.0C-H4A-BO2-IR	3.0	✓	✓	✓	9 - 22 mm	✓
5.0L-H4A-BO1-IR	5.0		✓	✓	4.3 - 8 mm	✓
5.0L-H4A-BO2-IR	5.0		✓	✓	9 - 22mm	✓
8.0-H4A-BO1-IR	8.0			✓	4.3 - 8 mm	✓

H4-BO-JBOX1	Junction box for H4A-BO-IR H4 HD Bullet Cameras
H4-MT-POLE1	Aluminum pole mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras
H4-MT-CRNR1	Aluminum corner mounting bracket for H4 HD Pendant Dome Cameras and H4 HD Bullet Cameras
H4-AC-WIFI1-NA	USB Wifi Adapter