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

 $\label{lem:lightCatcher} \mbox{Avigilon LightCatcher technology provides exceptional image quality in low light environments}$

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

 ${\color{blue} \mathsf{ONVIF}}\ compliant\ with\ version\ 2.2.0\ of\ the\ Analytics\ Service\ Specification$

Full Feature or High Framerate camera operating modes (4K Ultra HD model)

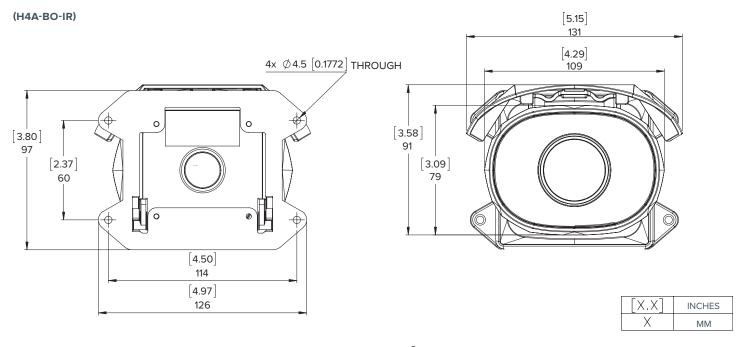
Specifications

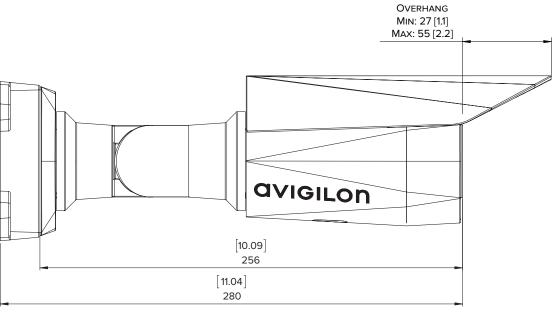
Specifi	Cati	5115	1.0 MP	2.0 MP	3.0 MP	5.0 MP	4K ULTRA HD (8.0 MP)			
IMAGE	Image Senso	or	1/2.8" progressive		3.0 1111	1/1.8" progressive scan CMOS	1/2.3" progressive scan CMOS			
	Aspect Ratio		16:9		4:3	p g	16:9			
	Active Pixels	(H x V)	1280 x 720	1920 x 1080	2048 x 1536	2592 x 1944	3840 x 2160			
	Imaging Area (H x V)		4.8 mm x 2.7mm;		5.12 mm x 3.84 mm; 0.202" x 0.151'					
	IR Illumination 3 - 9 mm lens:				30 m (98 ft) at -25 °C (-13 °F) or lower		N/A			
	(high power 850 nm LEDs	4.3 - 8 mm lens:		,		50 m (164 ft) max. distance at 0				
	030 IIII EEDS	?)				25 m (82 ft) at -25 °C (-13 °F) or				
		9 - 22 mm lens:	70 m (230 ft) max	. distance at 0 lux	; 50 m (164 ft) at -25 °C (-13 °F) or lowe	er	N/A			
	Minimum	3 - 9 mm lens:	0.04 lux (F1.3) in o	color mode; 0 lux (F1.3) in monochrome mode with IR	N/A	N/A			
	Illumination 4.3 - 8 mm lens:		N/A 0.033 lux (F1.8) in color mode; 0 lux (F1.8) in monochrome mode with IR 0.29 lux (F1.8) in monochrome mode witl							
	9 - 22 mm lens:					0.026 lux (F1.6) in color mode; 0 lux (F1.6) in monochrome mod with IR	N/A de			
	Image Rate (Full Resolution)		30 fps		30 fps (20 fps with WDR enabled)	30 fps	20 fps (30 fps in High Framerate mode)			
	Dynamic Ran	nge	67 dB			83 dB	91 dB			
	Dynamic Ran	nge (WDR enabled)	120 dB triple exp	osure (20 fps or le	ss); 100 dB dual exposure (30 fps)	N/A	N/A			
	Resolution S	caling	Down to 768 x 43	32		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)			
							,			
LENS	Lens	3 - 9 mm lens:	F1.3, P-Iris, remot	e 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							
	Angle of	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			
			11004 (14050 45		IDEO					
IMAGE CONTROL		pression Method		art 10/AVC), Motio						
	Streaming		Multi-stream H.264 and Motion JPEG							
	Bandwidth Management		(1.0 - 3.0 MP) HDSM; (5.0 MP and 4K Ultra HD) HDSM 2.0; (ALL) Idle Scene Mode							
	Motion Detection		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							
	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		Alarm In, Alarm Out							
	USB Port		USB 2.0							
NETWORK	Network		100DASE TV							
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 Pr	Streaming Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTP/TCP, HTTP						
	Device Management		SNMP v2c, SNMP v3							
MECHANICA	Protocols	(LVMVEN	126 mm v 200	n v 01 mm. 4 07"	11 04" v 2 E9" (including	ackath				
MECHANICAL	Dimensions (LxWxH)		126 mm x 280 mm x 91 mm; 4.97" x 11.04" x 3.58" (including mounting bracket)							
	_	amera: lounting Bracket:	1.71 kg (3.77 lbs)							
		lounting Bracket.	0.21 kg (0. 46 lbs) Aluminum							
	Body Housing		Surface mount, tamper resistant							
	Housing 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		42.W							
	Power Consumption		13 W			/A min				
	Power Source		VDC: 12 V ± 10%,		VAC: 24 V ± 10%, 19 V	A IIIII POE	E: IEEE802.3af Class 3 compliant			
	RTC Backup Battery		3V manganese li	mium						
ENVIRONMENTAL	L Operating Temperature		-40 °C to +55 °C (-40 °F to 131 °F) (8.0 MP only) -35 °C to +50 °C (-31 °F to 122 °F)							
	IR Illuminator Behavior		IR illuminator will not turn on if temperature is 45 °C (113 °F) or higher							
	Storage Temperature		IR illuminator will not turn on if temperature is 45 °C (113 °F) or higher -10 °C to +70 °C (14 °F to 158 °F)							
	Humidity		0 - 95% non-condensing							
				. 3						

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 B EN 61000-6-3 EN 61000-3-2 EN 6		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 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

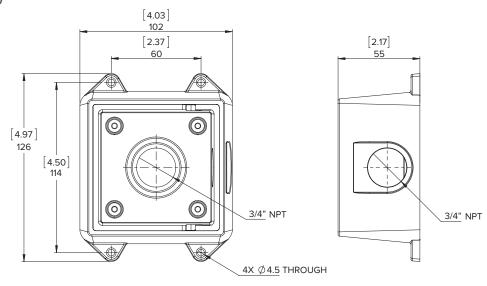
Bullet Camera





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