

HD Bullet Camera with Self-Learning Video Analytics

AVIGILON

Avigilon offers the broadest range of high definition cameras in the industry – 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 the best solution for your security needs.

The innovative HD Bullet camera is just one way Avigilon can help provide the very best monitoring and protection.



The HD Bullet camera with self-learning video analytics brings together Avigilon's world renowned camera technology with video analytics. The combination of instant and accurate object detection and classification alerts, with the identification performance of high-definition video, provides users with an unmatched level of perimeter protection to keep both personnel and assets safe. Equipped with built-in adaptive infrared (IR) illumination, our HD Bullet cameras increase in-the-dark detection and visibility without using a visible light source.

KEY FEATURES

Patented Advanced Video Pattern Detection and Teach by Example Technology
Self-Learning Video Analytics
Available with 3-9 mm or 9-22 mm P-Iris lens with remote focus and zoom
Up to 30 images per second
Triple Exposure Ultra Wide Dynamic Range (3 Megapixel)
Avigilon's LightCatcher™ technology provides unsurpassed image quality in low light environments
SD card slot for onboard storage support
Integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to maximum of 200 ft (60 m) away
Zoom and content adaptive IR provides the most effective illumination at all zoom positions, while maintaining optimum scene illumination
PoE (Power over Ethernet) enables operating temperatures of -40°C to 50°C (-40°F to 122°F) with no auxiliary power required.
Additional configuration Ethernet port for easy installation
Vandal resistant construction and IP66 compliant
ONVIF compliant with version 2.2.0 of the Analytics Service Specification

Specifications

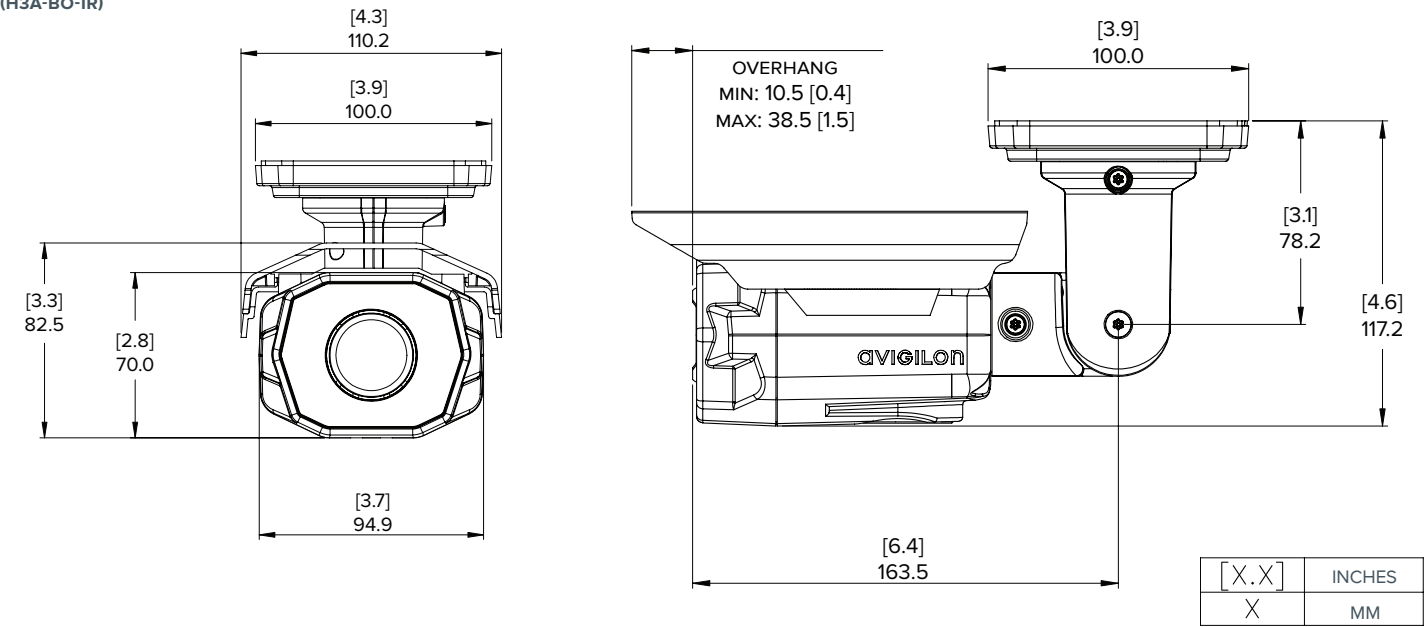
HD VIDEO ANALYTICS CAMERA

		1.0 MP		2.0 MP		3.0 MP				
IMAGE PERFORMANCE	Image Sensor		1/2.8" progressive scan CMOS							
	Active Pixels		1280 (H) x 720 (V)		1920 (H) x 1080 (V)		2048 (H) x 1536 (V)			
	Imaging Area		4.8 mm (H) x 2.7 mm (V); 0.189"(H) x 0.106"(V)					4.92 mm (H) x 3.69 mm (V); 0.194" (H) x 0.145" (V)		
	Illuminator Technology		High-power IR LEDs							
	IR Illumination	3-9 mm lens:	850 nm wavelength, 30 m (100 ft) max. distance of IR illumination at 0 lux with auxiliary power or PoE							
		9-22 mm lens:	850 nm wavelength, 60 m (200 ft) max. distance of IR illumination at 0 lux with auxiliary power or PoE							
	Minimum Illumination	3-9 mm lens:	0.1 lux (F1.2) in color mode; 0 lux in monochrome mode with IR							
		9-22 mm lens:	0.2 lux (F1.6) in color mode; 0 lux in monochrome mode with IR							
Dynamic Range		100 dB Dual Exposure True WDR				120 dB Triple Exposure Ultra WDR				
Image Rate		30 fps (all resolutions)				20 fps (at full resolution); 30 fps (at 1920 x 1080 or smaller)				
LENS	Lens		3-9 mm, F1.2, P-Iris, remote focus and zoom							
			9-22 mm, F1.6, P-Iris, remote focus and zoom							
	Angle of View	3-9 mm lens:	32° - 91°			33° - 94°				
		9-22 mm lens:	13° - 28°			15° - 31°				
IMAGE CONTROL	Image Compression Method		H.264 (MPEG-4 Part 10/AVC), Motion JPEG							
	Streaming		Multi-stream H.264 and Motion JPEG							
	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							
	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								
MECHANICAL	Dimensions (LxWxH)		241.7 mm x 94.9 mm x 70 mm; 9.5" x 3.7" x 2.8"							
	Weight		115 kg (2.5 lbs)							
	Body		Aluminum							
	Housing		Surface mount, tamper resistant							
	Finish		Powder coat, cool gray 2							
	Adjustment Range		±175° pan, -45° to +90° tilt, ±175° azimuth							
	Onboard Storage		SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended							
ELECTRICAL	Power Consumption		22 W with external power or IEEE802.3at Class 4 PoE Plus		12.95 W with IEEE 802.3af Class PoE					
	Power Source		VDC: 12 V +/- 10%, 22 W min		VAC: 24 V +/- 10%, 28 VA min		PoE: IEEE802.3af Class 3 compliant	PoE+: IEEE802.3at Class 4 PoE Plus		
	RTC Backup Battery		3V Manganese Lithium							
ENVIRONMENTAL	Operating Temperature		-40 °C to +50 °C (-40 °F to 122 °F)							
	Storage Temperature		-40 °C to +70 °C (-40 °F to 158 °F)							
	Humidity		0 - 95% non-condensing							
CERTIFICATIONS	Safety		UL 60950-1	CSA 60950-1	IEC/EN 60950-1	CE	ROHS	WEEE	RCM	
	Environmental		IK10 Impact Rating			Meets IEC 60529 IP66 Weather Rating		IEC/UL/CSA 60950-22		
	Electromagnetic Emissions		FCC Part 15 Subpart B Class B			IC ICES-003 Class B		EN 55022 Class B		EN 61000-6-3
	Electromagnetic Immunity		EN 55024	EN 61000-6-1	EN 61000-4-2	EN 61000-4-3	EN 61000-4-4	EN 61000-4-5	EN 61000-4-6	EN 61000-4-11
SUPPORTED VIDEO ANALYTICS EVENTS	Objects in Area		The event is triggered when the selected object type moves into the region of interest. If the number of objects is exceeded, a new event is not triggered until the number of objects falls below the defined value.							
	Object Loitering		The event is triggered when the selected object type stays within the region of interest for an extended amount of time. The event is reset when the object leaves the region of interest.							
	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. If the number of objects is exceeded, a new event is not triggered until the event timeout.							
	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

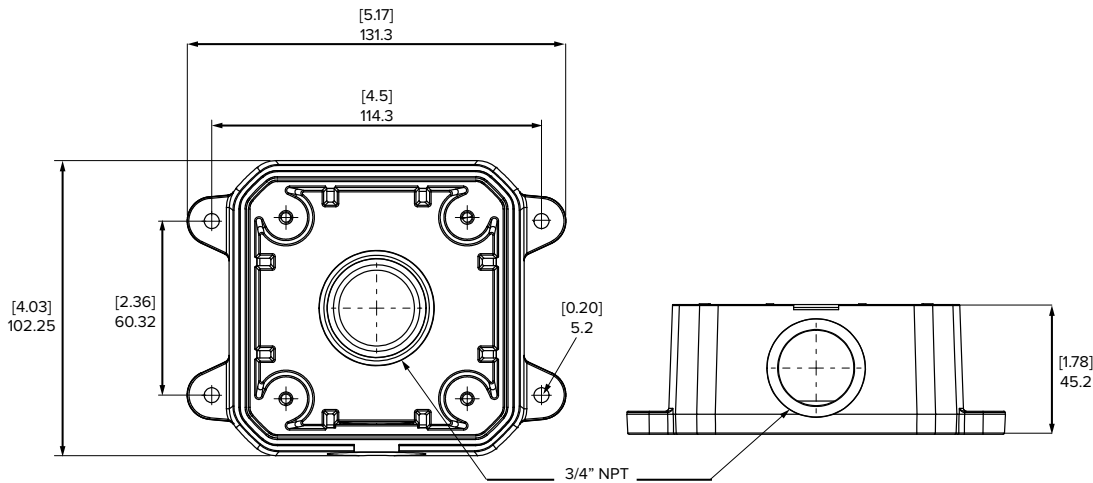
HD Bullet Camera

(H3A-BO-IR)



HD Bullet Camera Junction Box

(H3-BO-JB)



Ordering Information

1.0C-H3A-BO1-IR	1.0 Megapixel WDR 3-9 mm HD Bullet Camera with Self-Learning Video Analytics and Light Catcher Technology
1.0C-H3A-BO2-IR	1.0 Megapixel WDR 9-22 mm HD Bullet Camera with Self-Learning Video Analytics and Light Catcher Technology
2.0C-H3A-BO1-IR	2.0 Megapixel WDR 3-9mm HD Bullet Camera with Self-Learning Video Analytics and Light Catcher Technology
2.0C-H3A-BO2-IR	2.0 Megapixel WDR 9-22 mm HD Bullet Camera with Self-Learning Video Analytics and Light Catcher Technology
3.0C-H3A-BO1-IR	3.0 Megapixel WDR 3-9 mm HD Bullet Camera with Self-Learning Video Analytics and Light Catcher Technology
3.0C-H3A-BO2-IR	3.0 Megapixel WDR 9-22 mm HD Bullet Camera with Self-Learning Video Analytics and Light Catcher Technology
H3-BO-JB	Junction box for the H3-BO-IR HD Bullet Cameras
MNT-AD-POLE-B	Aluminum pole mounting bracket for Dome Cameras and HD Bullet Cameras using Pendant Mount Brackets
MNT-AD-CORNER	Aluminum corner mounting bracket for Dome Cameras and HD Bullet Cameras using Pendant Mount Brackets