## HD Bullet Camera with Self-Learning Video Analytics

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.





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<sup>™</sup> 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

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. HD VIDEO ANALYTICS CAMERA

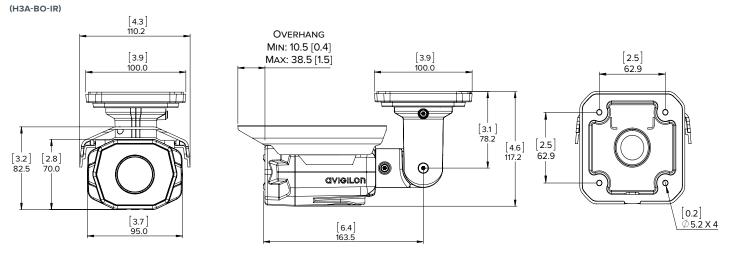
avigilon

# Specifications

Specific	auons	1.0 MP	2.0 MP	3.0 MP				
IMAGE	Image Sensor	1/2.8" progressive scan CMOS		5.0 101				
PERFORMANCE	Active Pixels	1280 (H) x 720 (V)	1920 (H) × 1080 (V)	2048 (H) × 1	536 (V)			
	Imaging Area	4.8 mm (H) × 2.7 mm (V); 0.189"(H) × 0.106"(V) 4.92 mm (H) × 3.69 mm (V); 0.194" (H) × 0.145" (V)			) x 3.69 mm (V); 0.194" (H) x 0.145" (V)			
	Illuminator Technology	High-power IR LEDs						
	IR 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 1111 101	850 nm wavelength, 60 m (200 ft) max. distance of IR illumination at 0 lux with auxiliary power or PoE						
	Minimum 3-9 mm lens Illumination 9-22 mm lens	0.1 lux (F1.2) in color mode; 0 lux in monochrome mode with IR 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 fu	ll resolution); 30 fps (at 1920 x 1080 or smaller)			
LENS	Lens	3-9 mm, F1.2, P-Iris, remote fo	cus and zoom					
LENS	Lens	9-22 mm, F1.6, P-Iris, remote f						
	Angle of 3-9 mm lens			33° - 94°				
	View 9-22 mm len			15° - 31°				
	5-22 minien							
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 Automatic Manual (//5 to 1/0000 coc)						
	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	Alarm In, Alarm Out					
NETWORK	Network	100BASE-TX						
	Cabling Type	CAT5	CAT5					
	Connector	RJ-45						
	ONVIF	ONVIF compliant with version 1.02, 2.00, Profile S and 2.2.0 of the Analytics Service Specification						
	Security	(*bounding boxes and scene descriptions not available with third-party VMS) 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 95.0 mm x 70 mm; 9.5" x 3.7" x 2.8"						
	Weight	1.15 kg (2.5 lbs)						
	Body	Aluminum Surface mount tamper resistant						
	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 I	EEE802.3at Class 4 PoE Plus	12.95 W with IEEE 802.3af Cla	ss PoE			
	Power Source	VDC: 12 V +/- 10%, 22 W min	VAC: 24 V +/- 10%, 28 VA min	PoE: IEEE802.3af Class 3 com	pliant 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/Directives	UL cUL	CE ROHS	WEEE RCM	EAC KC			
CERTIFICATIONS	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 61000-3-3			
	Electromagnetic Immunity	EN 55024		EN 61000-6-1				
SUPPORTED VIDEO ANALYTICS EVENTS	Objects in Area Object Loitering	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. 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						
	Objects Crossing Beam	leaves the region of interest. 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 If the number of objects is exc	beam can be unidirectional or bidirectional. If the number of objects is exceeded, a new event is not triggered until the event timesout. The event is triggered by each object that enters the region of interest. This event can be used to count objects.					
	Object Appears or Enters Are Object Not Present in Area				ini objects.			
	Objects Enter Area		The event is triggered when no objects are present in the region of interest. 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 Tamper Detection		an object moves in the prohibited di he scene unexpectedly changes.	rection of travel.				
	ramper Detection	the event is triggered when t	are scene unexpectedly changes.					

## **Outline Dimensions**

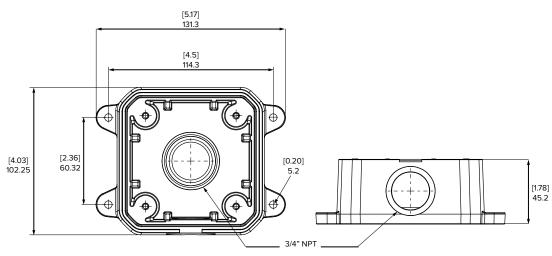
#### HD Bullet Camera



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HD VIDEO ANALYTICS CAMERA

HD Bullet Camera Junction Box (H3-B0-JB)



## Ordering Information

1.0C-H3A-BO1-IR	1.0 Megapixel WDR 3-9 mm HD Bullet Camera with Self-Learning Video Analytics and LightCatcher Technology			
1.0C-H3A-BO2-IR	1.0 Megapixel WDR 9-22 mm HD Bullet Camera with Self-Learning Video Analytics and LightCatcher Technology			
2.0C-H3A-BO1-IR	2.0 Megapixel WDR 3-9mm HD Bullet Camera with Self-Learning Video Analytics and LightCatcher Technology			
2.0C-H3A-BO2-IR	2.0 Megapixel WDR 9-22 mm HD Bullet Camera with Self-Learning Video Analytics and LightCatcher Technology			
3.0C-H3A-BO1-IR	3.0 Megapixel WDR 3-9 mm HD Bullet Camera with Self-Learning Video Analytics and LightCatcher Technology			
3.0C-H3A-BO2-IR	3.0 Megapixel WDR 9-22 mm HD Bullet Camera with Self-Learning Video Analytics and LightCatcher 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			