HD Bullet Camera

Avigilon's end-to-end surveillance solutions deliver image detail no other system can match. Avigilon™ Control Center software, featuring High Definition Stream Management (HDSM)™ technology combined with our broad range of megapixel cameras (from 1 MP to 29 MP) provide unprecedented clarity—while effectively managing storage and bandwidth requirements. Our components are scalable and can work together in an end-to-end system, or can be customized to create your own powerful and cost-effective solution.

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

Avigilon's HD Bullet camera is ideal for seeing objects and activity in complete darkness. With our unique adaptive IR technology, this camera is equipped to provide both wide and narrow illumination, enabling consistent illumination in complete darkness to maximize image quality regardless of scene conditions. Avigilon's HD Bullet camera also features wide dynamic range capabilities and is vandal resistant for maximum security. Onboard storage capabilities let you manage storage directly on the camera using a standard SD memory card. The Bullet camera is ideal for monitoring a variety of environments that require discreet nighttime coverage, including parking lots, campuses and industrial yards.
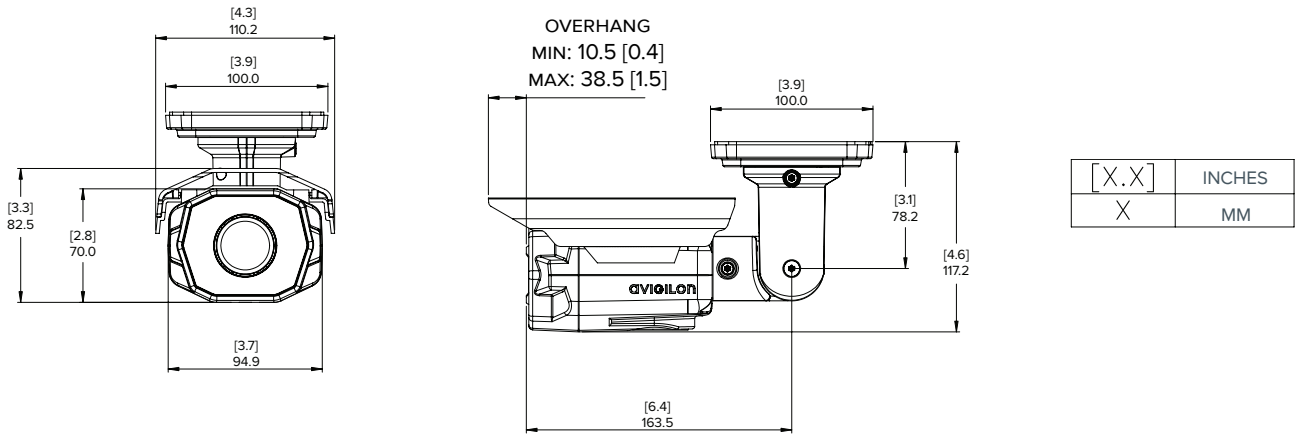
KEY FEATURES

Progressive scan CMOS sensor
Unsurpassed image quality in daytime and nighttime
Available with 3-9 mm F1.2 or 9-22 mm F1.6 P-Iris lens with remote focus and zoom
Up to 30 images per second
Wide Dynamic Range
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
Automatic Day/Night functionality with removable IR cut filter to switch to Day or Night mode depending on the light level
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
ONVIF compliant API with H.264 and Motion JPEG compression
Vandal resistant construction and IP66 compliant

Specifications

IMAGE PERFORMANCE

	1.0 MP	2.0 MP	3.0 MP	5.0 MP
Image Sensor	WDR 1/3" progressive scan CMOS			1/3.2" progressive scan CMOS
Active Pixels	1280 (H) x 720 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	2592 (H) x 1944 (V)
Imaging Area	4.2 mm (H) x 2.4 mm (V); 0.165"(H) x 0.094"(V)		4.5 mm (H) x 3.4 mm (V); 0.177" (H) x 0.133" (V)	4.6 mm (H) x 3.4 mm (V); 0.181" (H) x 0.133" (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			
9-22 mm lens:	850 nm wavelength, 60 m (200 ft) max. distance of IR illumination at 0 lux			
Minimum Illumination				
3-9 mm lens:	0.2 lux (F1.2) in color mode			0.3 lux (F1.2) in color mode
	0 lux in monochrome mode with IR			
9-22 mm lens:	0.4 lux (F1.6) in color mode			0.6 lux (F1.6) in color mode
	0 lux in monochrome mode with IR			
Dynamic Range	100 dB			69 dB
Image Rate	30 (all resolutions)		20 (at full resolution)	13 (at full resolution)
			30 (at 1920 x 1080 or smaller)	

LENS

	1.0 MP	2.0 MP	3.0 MP	5.0 MP
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:	26° - 79°		28° - 84°	
9-22 mm lens:	11° - 26°		11° - 28°	12° - 28°

IMAGE CONTROL

Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Motion JPEG
Streaming	Multi-stream H.264 and Motion JPEG
Motion Detection	Selectable sensitivity and threshold
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, A/V mini-jack (3.5 mm)
External I/O Terminals	Alarm In, Alarm Out

NETWORK

Network	100BASE-TX
Cabling Type	CAT5
Connector	RJ-45
API	ONVIF compliance version 1.02, 2.00, Profile S (www.onvif.org)
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, LLDP
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	1.15 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	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
RTC Backup Battery	3V Manganese Lithium		

ENVIRONMENTAL

Operating Temperature	-40 °C to +50 °C (-40 °F to 122 °F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)
Humidity	0 - 95% non-condensing

CERTIFICATIONS

Safety	UL 60950	CSA 60950	CB Scheme	UVV	CE	ROHS	WEEE	RCM
Environmental	IK10 Impact Rating		Meets IP66 Weather Rating				
Electromagnetic Emissions	FCC Part 15 Subpart B Class B		IC ICES-003 Class B		EN 55022 Class B		
Electromagnetic Immunity	EN 55024	EN 61000-4-2	EN 61000-4-3	EN 61000-4-4	EN 61000-4-5	EN 61000-4-6	EN 61000-4-11

Outline Dimensions

[4.3]
110.2

[3.9]
100.0

[3.3]
82.5

[2.8]
70.0

[3.7]
94.9

OVERHANG
MIN: 10.5 [0.4]
MAX: 38.5 [1.5]

[3.9]
100.0

[3.1]
78.2

[4.6]
117.2

[6.4]
163.5

avigilon

[X.X]	INCHES
X	MM

Ordering Information

1.0W-H3-BO1-IR	1.0 Megapixel WDR 3-9 mm HD Bullet Camera
1.0W-H3-BO2-IR	1.0 Megapixel WDR 9-22 mm HD Bullet Camera
2.0W-H3-BO1-IR	2.0 Megapixel WDR 3-9mm HD Bullet Camera
2.0W-H3-BO2-IR	2.0 Megapixel WDR 9-22 mm HD Bullet Camera
3.0W-H3-BO1-IR	3.0 Megapixel WDR 3-9 mm HD Bullet Camera
3.0W-H3-BO2-IR	3.0 Megapixel WDR 9-22 mm HD Bullet Camera
5.0-H3-BO1-IR	5.0 Megapixel 3-9 mm HD Bullet Camera
5.0-H3-BO2-IR	5.0 Megapixel 9-22 mm HD Bullet Camera
H3-BO-JB	Junction box for the H3-BO-IR HD Bullet Cameras
MNT-AD-POLE-B	Aluminum pole mounting bracket for dome cameras using Pendant Mount Brackets and HD Bullet Cameras
MNT-AD-CORNER	Aluminum corner mounting bracket for dome cameras using Pendant Mount Brackets and HD Bullet Cameras