

Day/Night H.264 HD Camera

AVIGILON

H.264 HD 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 H.264 HD camera is just one way Avigilon can help provide the very best monitoring and protection.



The H.264 HD camera features an integrated lens for remote focus and zoom control, and is ONVIF compliant for no-hassle integration. It operates on Avigilon's H3 platform, providing this model with improved low light performance with wide dynamic range support and enhanced HDSM™ software features. P-Iris control also allows the camera to automatically set its iris position to maximize image quality in all lighting conditions. Onboard storage capabilities let you manage storage directly on the camera using a standard SD memory card. This camera is extremely versatile and can work in almost any location, including banks, schools, retail outlets, municipal grounds and buildings, hotels, bars and restaurants.

KEY FEATURES

Progressive scan CMOS sensor
Unsurpassed image quality
Available with 3-9 mm F1.2, 9 - 22 mm F1.6, or 4.7-84.6mm 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
H.264 and Motion JPEG compression
ONVIF API Compliance with version 1.02, 2.00 and Profile S
Automatic exposure control and iris control
Automatic removable IR cut filter for IR sensitivity at night
Power over Ethernet, 24 VAC or 12 VDC power input
Analog Video Output

Specifications

H.264 HD CAMERA

	1.3 MP (LIGHTCATCHER)	1.0 MP	2.0 MP	3.0 MP	5.0 MP								
IMAGE PERFORMANCE	Image Sensor	1/3" progressive scan CMOS											
	4.7-84.6 mm lens:	1/3" progressive scan CMOS											
	3-9 mm lens:	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS		WDR 1/3" progressive scan CMOS	1/3.2" progressive scan CMOS							
	9-22 mm lens:												
	Active Pixels	1280 (H) x 1024 (V)	1280 (H) x 720 (V)	1920 (H) x 1080 (V)	2048 (H) x 1536 (V)	2592 (H) x 1944 (V)							
	Imaging Area												
	4.7-84.6 mm lens	4.2 mm (H) x 2.4 mm (V); 0.165" (H) x 0.094" (V)											
	3-9 mm lens:	4.8 mm (H) x 3.84 mm (V); 0.189" (H) x 0.151" (V)	5.9 mm (H) x 3.3 mm (V); 0.231" (H) x 0.129" (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)							
	9-22 mm lens:												
	Minimum Illumination												
	4.7-84.6 mm lens	0.4 lux (F1.6) in color mode; 0.04 lux (F1.6) in monochrome mode											
	3-9 mm lens:	0.02 lux (F1.2) in color mode; 0.002 lux (F1.2) in monochrome mode	0.2 lux (F1.2) in color mode; 0.02 lux (F1.2) in monochrome mode			0.3 lux (F1.2) in color mode; 0.03 lux (F1.2) in monochrome mode							
	9-22 mm lens:	0.04 lux (F1.6) in color mode; 0.004 lux (F1.6) in monochrome mode	0.4 lux (F1.6) in color mode; 0.04 lux (F1.6) in monochrome mode			0.6 lux (F1.6) in color mode; 0.06 lux (F1.6) in monochrome mode							
	Dynamic Range	71 dB	69 dB		100 dB	69 dB							
	Image Rate	30 (all resolutions)			20 (at full resolution)	13 (at full resolution)							
Resolution Scaling	Down to 768 x 432			Down to 480 x 360									
LENS	Lens	4.7-84.6 mm, F1.6, P-Iris, remote focus and zoom											
		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												
	4.7-84.6 mm lens:	3° - 52°											
3-9 mm lens:	30° - 88°	35° - 98°		28° - 84°									
9-22 mm lens:	13° - 30°	15° - 35°		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 1/2000 sec)	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/output, A/V mini-jack (3.5 mm)											
	Video Output	NTSC/PAL, 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, 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			4.7-84.6 MM LENS		3-9 MM LENS		9-22 MM LENS						
	Dimensions (LxWxH)	156 mm x 69 mm x 64 mm; 6.1" x 2.7" x 2.5"		115 mm x 67 mm x 53 mm; 4.5" x 2.6" x 2.1"									
	Weight	0.56 kg (1.2 lbs)		0.47 kg (1.0 lbs)									
	Camera Mount	1/4" UNC-20 (top and bottom)											
	Onboard Storage	SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended											
ELECTRICAL		1.3 MP		1.0 MP		2.0 MP		3.0 MP		5.0 MP			
	Power Consumption	6 W											
	Power Source	VDC: 12 V +/- 10%, 6 W min				VAC: 24 V +/- 10%, 8 VA min				PoE: IEEE802.3af Class 3 compliant			
	Power Connector	2-pin terminal block											

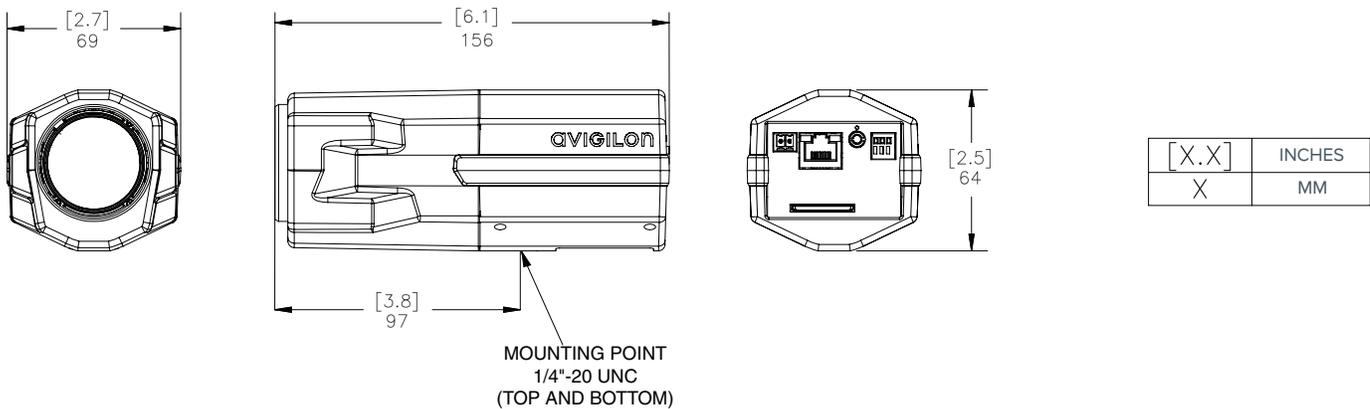
Specifications

ENVIRONMENTAL	
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)

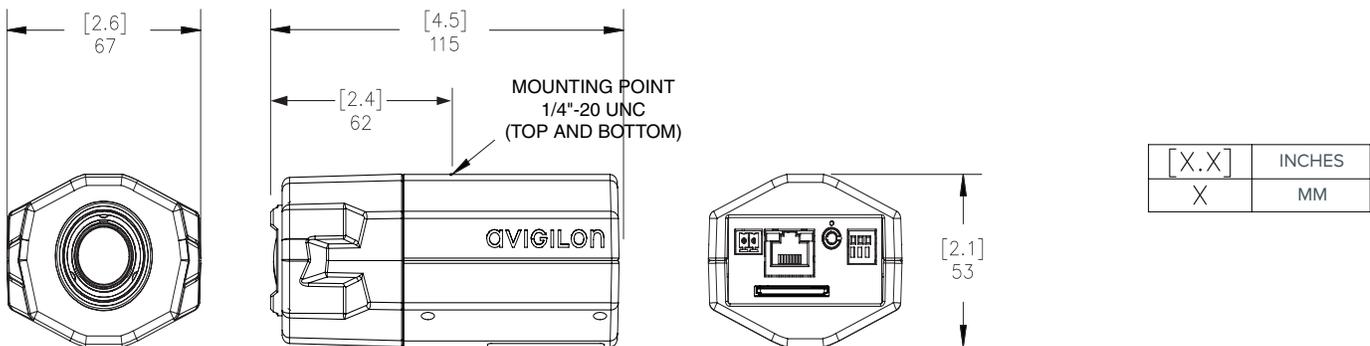
CERTIFICATIONS	
Safety	UL 60950 CSA 60950 EN 60950-1 CE ROHS WEEE
Electromagnetic Emissions	FCC Part 15 Subpart B Class B IC ICES-003 Class B EN 55022 Class B
Electromagnetic Immunity	EN 55024 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11

Outline Dimensions

4.7-84.6 mm lens



3-9 mm lens, 9-22 mm lens



Ordering Information

1.0-H3-B1	1.0 Megapixel Day/Night H.264 HD 4.7-84.6 mm Camera
1.0-H3-B2	1.0 Megapixel Day/Night H.264 HD 3-9 mm Camera
1.0-H3-B3	1.0 Megapixel Day/Night H.264 HD 9-22 mm Camera
1.3L-H3-B2	1.3 Megapixel H.264 HD 3-9 mm Camera with LightCatcher™ Technology
1.3L-H3-B3	1.3 Megapixel H.264 HD 9-22 mm Camera with LightCatcher™ Technology
2.0-H3-B1	2.0 Megapixel Day/Night H.264 HD 4.7-84.6 mm Camera
2.0-H3-B2	2.0 Megapixel Day/Night H.264 HD 3-9 mm Camera
2.0-H3-B3	2.0 Megapixel Day/Night H.264 HD 9-22 mm Camera
3.0W-H3-B2	3.0 Megapixel WDR Day/Night H.264 HD 3-9 mm Camera
3.0W-H3-B3	3.0 Megapixel WDR Day/Night H.264 HD 9-22 mm Camera
5.0-H3-B2	5.0 Megapixel Day/Night H.264 HD 3-9 mm Camera
5.0-H3-B3	5.0 Megapixel Day/Night H.264 HD 9-22 mm Camera