Day/Night 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

		1.3 MP (LIGHTCATCHER)	1.0 MP	2.0 MP	3.0 MP	5.0 MP
IMAGE PERFORMANCE	Image Sensor					
	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)
					30 (at 1920 x 1080 or smaller)	
	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, 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

		4.7-84.6 MM LENS	3-9 MM LENS	9-22 MM LENS
MECHANICAL	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		

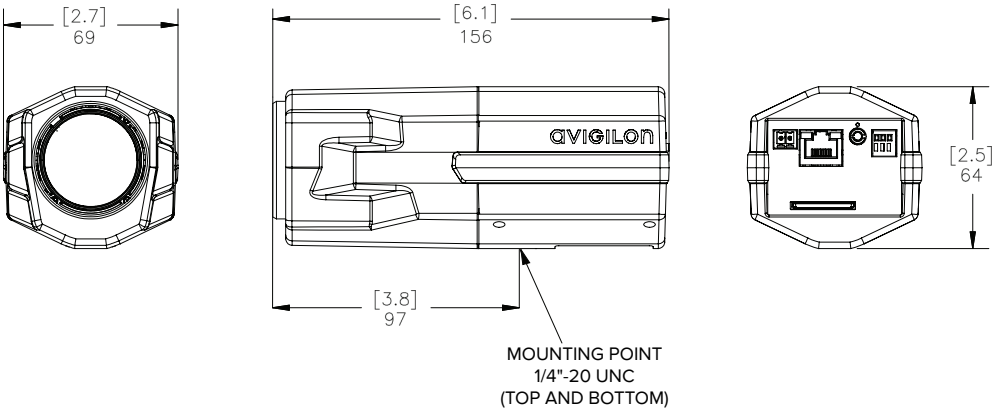
		1.3 MP	1.0 MP	2.0 MP	3.0 MP	5.0 MP
ELECTRICAL	Power Consumption	6 W				
	Power Source	VDC: 12 V +/- 10%, 6 W min		VAC: 24 V +/- 10%, 8 VA min		PoE: IEEE802.3af Class 3 compliant
	Power Connector	2-pin terminal block				
	RTC Backup Battery	3V Manganese Lithium				

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)						
	Humidity	0 - 95% non-condensing						
CERTIFICATIONS	Safety	UL 60950	CSA 60950	EN 60950-1	CE	ROHS	WEEE	RCM
	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

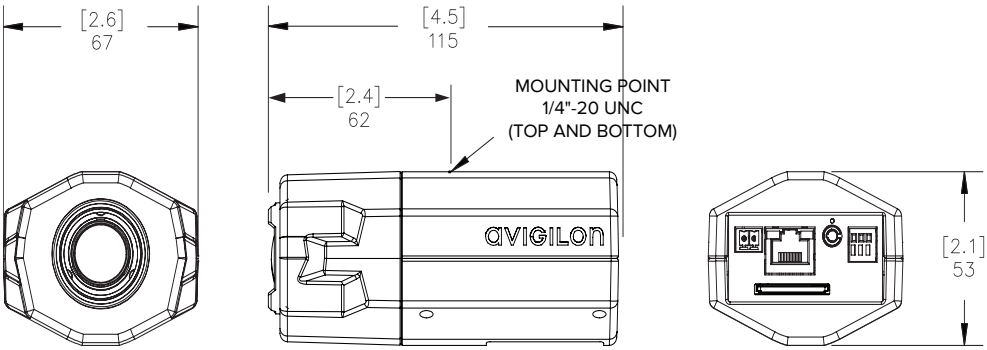
Outline Dimensions

4.7-84.6 mm lens



[X.X]	INCHES
X	MM

3-9 mm lens, 9-22 mm lens



[X.X]	INCHES
X	MM

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

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