

HD Pro Camera with Self-Learning Video Analytics

Avigilon offers a broad range of high definition cameras – 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 an exceptional solution for your security needs.

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





The HD Pro camera series with self-learning video analytics is available in 4K (8 MP) to 5K (16 MP) resolutions, which is the industry's highest singlesensor megapixel camera with self-learning video analytics. The series offers wide scene coverage, highly accurate object detection and the ability to zoom in for clear image detail. The image quality of the HD Pro camera series is made possible by Avigilon's H4 platform, which combines Avigilon's LightCatcher[™] technology for unmatched low-light performance, H.264 compression and the latest edition of its patented High Definition Stream Management (HDSM) technology, HDSM[™] 2.0. Avigilon HDSM SmartCodec[™] technology H4 platform optimizes the video stream in real time using automatic ROI encoding to save bandwidth and storage requirements while maintaining image quality.

KEY FEATURES

Self-learning video analytics

Patented advanced video pattern detection and teach by example technology

Avigilon's LightCatcher technology provides unsurpassed image quality in low light environments

Up to 12 images per second

Patented High Definition Stream Management (HDSM) Technology

H.264 and Motion JPEG compression

70 dB true dynamic range

SD card slot for onboard storage support

Compatible with a wide selection of EF and EF-S mount lenses

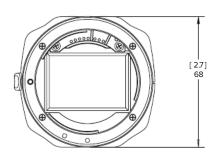
Power over Ethernet, 24 VAC or 12 VDC power input

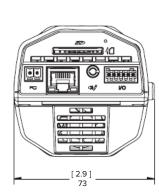
External I/O and RS-485 interface

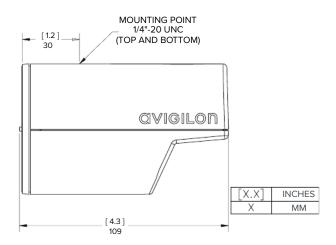
Avigilon HDSM SmartCodec technology for reduce bandwidth and storage requirements

		4K (8 MP)		4.5K (12 MP)		5	6K (16 MP)				
IMAGE	Image Sensor	27.2 mm (Type 1.8) progressive scan CMOS									
IMAGE PERFORMANCE	Active Pixels	3840 (H) × 2160 (V)		4608 (H) × 2592 (V)			4944 (H) × 3280 (V)				
	Imaging Area	23.6 mm (H) x 13.4 mm (V); 0									
	Minimum Illumination	0.005 lux (at F1.4)									
	Dynamic Range	70 dB									
	Resolution Scaling	Down to 3072 x 1728									
	Image Rate	12				10)				
	3D Noise Reduction Filter	Yes					-				
		100									
LENS	Lens Mount	EF and EF-S (SLR-style bayo	onet)								
IMAGE CONTROL	Video Compression	H.264 (MPEG-4 Part 10/AVC HDSM SmartCodec Technol						6K (24 MP) HD Pro 6016 × 4008	7K (30 MP) HD Pro 7360 X 4128		
	Streaming	Multi-stream H.264 and Mot	tion JPEG				5K (16 MP) HD Pro	1 I			
	Motion Detection	Pixel and classified objects					4944 X 3280				
	Electronic Shutter Control	Automatic, Manual (1 to 1/80	00 sec)			4.5	K (12 MP) HD Pro				
	Iris Control	* Automatic, Manual				4.5	4608 X 2592				
	Day/Night Control	* Automatic, Manual			5 MP	4K (8 MP) HD Pro 3840 × 2160					
	Flicker Control	50 Hz, 60 Hz			2592 × 1944						
	White Balance	Automatic, Manual			3 MP 2048 × 1536						
	Privacy Zones	Up to 64 zones		1.3							
	Audio Compression Method	G.711 PCM 8 kHz		1280 X 10 1 (72 1280 X	1920 X 1080						
	Audio Input/Output	Line level input and output, (3.5 mm)	A/V mini-jack								
	External I/O Terminals	Alarm In, Alarm Out			High Definition Resolution		4K (8 MP), 4.5	Avigilon HD Pro Came 5K (12 MP), 5K (16 MP), 6K (24	MP) and 7K (30 MP)		
	* dependent on selected ler	ns capability									
NETWORK	Network	100BASE-TX									
	Cabling Type	CAT5									
	Connector	RJ-45									
	Security										
	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/HTTP/TCP, HTTP										
	ONVIF® ONVIF compliance version 1.02, 2.00, Profile S, Profile T, Profile G ⁺ (www.onvif.org). ⁺ ONVIF Profile G is only supported by H.264 compression										
MECHANICAL	Dimensions (L x W x H)	109 mm x 73 mm 68 mm; 4.3	3" x 2.9" x 2.7"								
MEGHANIGAE	Weight	0.37 kg (0.8 lb)									
	Camera Mount	1/4"-20 UNC (top and bottom	n)								
	Onboard Storage			10 & 64 GB or be	etter recommended						
	onboard storage		SD/SDHC/SDXC slot - minimum class 6; class 10 & 64 GB or better recommended								
ELECTRICAL	Power Consumption	13 W									
	Power Source	VDC: 12 V +/- 10%, 13 W	VAC: 24 V +/- 10%, 18.4 VA			PoE: IEEE802.3af Class 3 compliant					
	RTC Backup Battery	3V Manganese Lithium									
ENVIRONMENTAL	Operating Temperature	-10 °C to +50 °C (14 °F to 122									
	Storage Temperature	-10 °C to +70 °C (14 °F to 158	· F)								
	Humidity	0 - 95% non-condensing									
CEDTIEICATIONS	Certifications	UL cUL	CE RC	OHS WEEE	RCM	EAC	KC	BIS			
CERTIFICATIONS	Safety	UL 60950-1			50950-1		IEC 60950-1				
	Electromagnetic Emissions	FCC Part 15 Subpart B	IC ICES-003 Clas		50950-1 5032 Class B		EN 61000-	EN 61000-	EN 61000-		
		Class B	IC ICL3-003 Cid:				6-3	3-2	3-3		
	Electromagnetic Immunity	EN 55024 EN 61000-6-1									
SUPPORTED VIDEO ANALYTICS	Objects in Area	The event is triggered when t									
EVENTS	Object Loitering	The event is triggered when t									
	Objects Crossing Beam	The event is triggered when t The beam can be unidirection	nal or bidirectional.					er the camera's	field of view.		
	Object Appears or Enters Area	The event is triggered by each	h object that enters	the region of inte	rest. This event can b	e used to cour	nt objects.				
	Object Not Present in Area	The event is triggered when r	no objects are pres	ent in the region o	f 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	ection The event is triggered when the scene unexpectedly changes.									
	ONVIF is a trademark of Onvif, Inc.										

Outline Dimensions







Ordering Information

8L-H4PRO-	R	4K (8 MP) H.264 Pro Color Camera with Self-Learning Video Analytics and HDSM SmartCodec
12L-H4PRO-B		4.5K (12 MP) H.264 Pro Color Camera with Self-Learning Video Analytics and HDSM SmartCodec
16L-H4PRO-B		5K (16 MP) H.264 Pro Color Camera with Self-Learning Video Analytics and HDSM SmartCodec
	/-D	ok (10 MP) H.204 Pro Color Camera with Sen-Learning Video Analytics and HDSM SmattCodec
Lens:	LEF2414CA	Canon 24mm f1.4L, Auto-Iris
Lens.	LEF2818CA	Canon 28mm f1.8, Auto-Iris
	*LEFS3014SI	Sigma 30mm f1.4, Auto-Iris
	LEF3514CA	Canon 35mm fl.4L, Auto-Iris
	LEF4028CA	Canon 40mm f2.8, Auto-Iris
	*LEF5012CA	Canon 50mm fl.2L, Auto-Iris
	LEF5014CA	Canon 50mm fl.4, Auto-Iris
	LEF5018CA2	Canon 50mm fl.8, Auto-Iris
	LEF8512CA	Canon 85mm fl.2L, Auto-Iris
	LEF8518CA	Canon 85mm fl.8, Auto-Iris
	LEF10020CA	Canon 100mm f2.0, Auto-Iris
	LEF20028CA	Canon 200mm f2.8L, Auto-Iris
	LEFS111628TO	Tokina 11-16mm f2.8, Auto-Iris, Vari Focal
	LEFS183518SI	Sigma 18-35mm f1.8, Auto-Iris, Vari Focal
	LEF247028TA	Tamron 24-70mm f2.8, Auto-Iris, Vari Focal, with Vibration Control
	LEF7020028CA	Canon 70-200mm f2.8L, Auto-Iris, Vari Focal
	LEF7030040CA	Canon 70-300mm f4-5.6 IS, Auto-Iris, Vari Focal, with image stabilization
	LEF7030040CA2	Canon 70-300mm f/4-5.6L IS Auto-Iris, Vari Focal, with image stabilization
	*LEF163528CA2	Canon 16-35mm f2.8L III, Auto-Iris, Vari Focal
	*LEF10040045CA2	Canon 100-400mm f4.5-5.6L IS II, Auto-Iris, Vari Focal, with image stabilization

*Lenses require AUX power.

ES-HD-HWS-SM	Outdoor HD Small Enclosure with Heater
ES-HD-HWS	Outdoor HD Enclosure with Heater
ES-HD-CWS	Outdoor HD Enclosure with Cooling Fan
ES-HD-HWS-LG	Outdoor HD Large Enclosure with Heater
ES-HD-CWS-LG	Outdoor HD Large Enclosure with Cooling Fan
ES-HD-HS-XL	Outdoor HD X-Large Enclosure
ES-HD-IPM	Outdoor HD Enclosure PoE Module