

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 new 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 single-sensor megapixel camera with self-learning video analytics. The new 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	2 MP)		51	K (16 MP)				
IMAGE	Image Sensor	27.2 mm (Type 1.8) progress	sive scan CMOS									
PERFORMANCE	Active Pixels	3840 (H) x 2160 (V)		4608 (H)	x 2592 (V)		49	44 (H) x 3280	(V)			
	Imaging Area	23.6 mm (H) x 13.4 mm (V);	0.93" (H) x 0.53"									
	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										
LENS	Lens Mount	EF and EF-S (SLR-style baye	onet)							7K (30 MP) HD Pro 7360 X 4128		
IMAGE CONTROL	Image Compression Method	H.264 (MPEG-4 Part 10/AVC	C), Motion JPEG	L					6K (24 MP) HD Pro 6016 x 4008	7360 X 4126		
	Streaming	Multi-stream H.264 and Mo					5K (16 MP) HD Pro 4944 X 3280					
	Motion Detection	Pixel and classified objects										
	Electronic Shutter Control	Automatic, Manual (1 to 1/80	000 sec)				(12 MP) HD Pro 4608 X 2592					
	Iris Control	* Automatic, Manual	·		4K (8 MP) HD Pro 3840 X 2160							
	Day/Night Control	* Automatic, Manual			5 MP 2592 X 1944	5 MP 2592 X 1944						
	Flicker Control	50 Hz, 60 Hz Automatic, Manual 1.3 MP 2048 X 1536 2.0 MP (2009) (2009										
	White Balance											
	Privacy Zones											
	Audio Compression Method	G.711 PCM 8 kHz			1 MP (720p) 1280 X720							
	Audio Input/Output	Line level input and output, (3.5 mm)	A/V mini-jack		High De Resoli	finition		4K (8 MP), 4.5#	Avigilon HD Pro Came (12 MP), 5K (16 MP), 6K (24	ras I MP) and 7K (30 MP)		
	External I/O Terminals Alarm In, Alarm Out											
	* dependent on selected lens 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 multica										
	Sacaning Protocols	KIT/ODI, KIT/ODI Malaca	3, 1117111317101	, 1011 /10101	7111117101,1		11 3/101,1111	•				
MECHANICAL	Dimensions (L x W x H)	109 mm x 73 mm 68 mm; 4	.3" x 2.9" x 2.7"									
	Weight	0.37 kg (0.8 lb)										
	Camera Mount	1/4"-20 UNC (top and bottom)										
	Onboard Storage	SD/SDHC/SDXC slot - minir	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 co					of Class 3 com	ınliant				
	RTC Backup Battery	3V Manganese Lithium	Z-T	VAC. 21 V 17 1070, 10.1 VA				. 52222502.5dr 5id55 5 compilant				
	KTO Backap Battery	3 V Manganese Ennam										
ENVIRONMENTAL	Operating Temperature	-10 °C to +50 °C (14 °F to 122	2 °F)									
	Storage Temperature	-10 °C to +70 °C (14 °F to 158	3 °F)									
	Humidity	0 - 95% non-condensing										
CERTIFICATIONS	Certifications	UL cUL	CE RO	SHC	WEEE	RCM	EAC	KC				
	Safety	UL 60950-1			CSA 60950-	-1		IEC/EN 6095	0-1			
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B	IC ICES-003 Cla	ss B	EN 55032 C			EN 61000- 6-3	EN 61000- 3-2	EN 61000- 3-3		
	Electromagnetic Immunity	EN 55024			EN 61000-6	-1						
SUPPORTED	Objects in Area	in Area The event is triggered when the selected object type moves into the region of interest.										
VIDEO ANALYTICS EVENTS	Object Loitering	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.										
LVERIS	Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.										
	Object Appears or Enters Area	The event is triggered by each object that enters the region of interest. This event can be used to count objects.										
	Object Not Present in Area	The event is triggered when no objects are present in the region of 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 numb	er of object	s have left the	region of inter	est.					
	Object Stops in Area	The event is triggered when	an object in a regio	n of interes	t stone movine	for the enecifi	ad thrachald tir					

The event is triggered when an object in a region of interest stops moving for the specified threshold time.

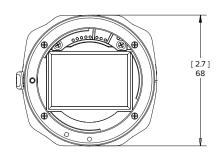
The event is triggered when an object moves in the prohibited direction of travel.

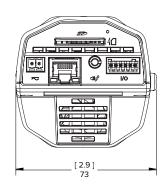
The event is triggered when the scene unexpectedly changes.

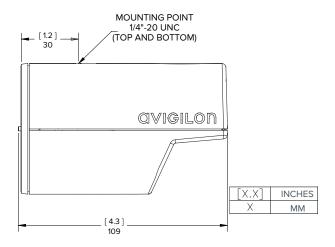
Object Stops in Area

Direction Violated

Tamper Detection







Ordering Information

8L-H4PRO-	-В	4K (8 MP) H.264 Pro Color Camera with Self-Learning Video Analytics and HDSM SmartCodec
12L-H4PRC)-B	4.5K (12 MP) H.264 Pro Color Camera with Self-Learning Video Analytics and HDSM SmartCodec
16L-H4PRC)-B	5K (16 MP) H.264 Pro Color Camera with Self-Learning Video Analytics and HDSM SmartCodec
Lens:	LEF2414CA	Canon 24mm f1.4L, Auto-Iris
	I EE2010CA	Canon 20mm fl 9. Auto Iric

Lens:	LEF2414CA	Canon 24mm fl.4L, Auto-Iris
	LEF2818CA	Canon 28mm f1.8, Auto-Iris
	*LEFS3014SI	Sigma 30mm fl.4, Auto-Iris
	LEF3514CA	Canon 35mm f1.4L, Auto-Iris
	LEF4028CA	Canon 40mm f2.8, Auto-Iris
	*LEF5012CA	Canon 50mm f1.2L, Auto-Iris
	LEF5014CA	Canon 50mm fl.4, Auto-Iris
	LEF5018CA2	Canon 50mm f1.8, Auto-Iris
	LEF8512CA	Canon 85mm fl.2L, Auto-Iris
	LEF8518CA	Canon 85mm f1.8, 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, A	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