PRODUCT CATALOG

FIXED & MOBILE VIDEO SOLUTIONS | Q2 2020

MOTOROLA SOLUTIONS

avigilon™

CONTENTS

Avigilon, a Motorola Solutions company, designs, develops and manufactures solutions in video analytics, cloud, security cameras, video management software and hardware, and access control. Avigilon is an industry leader and, together with Motorola Solutions, provides integrated solutions for video security, access control and critical communications.

FIXED CAMERAS & SENSORS

BODY-WORN CAMERAS

VIDEO INFRASTRUCTURE

VIDEO MANAGEMENT SOFTWARE

ACCESS CONTROL

FIXED CAMERAS & SENSORS

Avigilon offers a complete video security solution, from cutting-edge camera and sensor technologies that are embedded with features such as smart analytics to help focus your attention on the events that matter most, IR and LightCatcher™ technology to help you see more in dark environments, and a 360-degree view for broad coverage with fewer cameras.

H5A

Features next-generation video analytics to provide a smarter and more powerful video security solution from the moment you set it up.

Model Name Part Number with Optional IR Illuminators	H5A Dome (Indoor Surface) R.0C-H5A-DL R.0C-H5A-DL-IR				H5A Dome (In-Ceiling) R.0C-H5A-DCL R.0C-H5A-DCL-IR				H5A Dome (Outdoor Surface) R.0C-H5A-DOL R.0C-H5A-DOL-IR					H5A Dome (Pendant) R.0C-H5A-DPL R.0C-H5A-DPL-IR				
Resolution R	2 MP	4 MP	6 MP	8 MP	2 MP	4 MP	6 MP	8 MP	2 MP	4 MP	5 MP	6 MP	8 MP	2 MP	4 MP	5 MP	6 MP	8 MP
Image Sensor (progressive scan CMOS)	1/2.8"	1/2.8"	1/1.8"	1/1.8"	1/2.8"	1/2.8"	1/1.8"	1/1.8"	1/2.8"	1/2.8"	1/2.8"	1/1.8"	1/1.8"	1/2.8"	1/2.8"	1/2.8"	1/1.8"	1/1.8"
Max. Dynamic Range	132 dB	126 dB	120 dB	120 dB	132 dB	126 dB	120 dB	120 dB	132 dB	126 dB	126 dB	120 dB	120 dB	132 dB	126 dB	126 dB	120 dB	120 dB
Wide Dynamic Range	Yes																	
Max. Image Rate	30 fps																	
LightCatcher Technology	Yes																	
Max. IR Illumination Distance (at 0 lux)	35 m (115 ft)	35 m (115 ft)	30 m (98 ft)	30 m (98 ft)	35 m (115 ft)	35 m (115 ft)	30 m (98 ft)	30 m (98 ft)	35 m (115 ft)	35 m (115 ft)	–	30 m (98 ft)	30 m (98 ft)	35 m (115 ft)	35 m (115 ft)	–	30 m (98 ft)	30 m (98 ft)
Environmental	–								IP66 / IP67 weather rating, IK10 impact rating									
Image Compression Technologies	H.265 HDSM SmartCodec, H.264 HDSM SmartCodec, MJPEG																	
Analytics Technologies	Next-Generation Video Analyitcs																	
Audio Compression Method	Opus, G.711 PCM 8 kHz																	
Audio Input/Output	Line level input/output																	
External I/O Terminals	Alarm in, alarm out																	
Power Source — External Power	VDC: 12V, VAC: 24V																	
Power Source — PoE	IEEE802.3af Class3 compliant																	
ONVIF® Compliance	Profile S and Profile T																	
Onboard Storage	microSD/microSDHC/microSDXC slot – class 10/UHS-1 or better recommended																	

LENS OPTIONS L (Remote Zoom and Focus)

		Indoor 2MP	Indoor 4MP	Indoor 6MP	Indoor 8MP	In-Ceiling 2MP	In-Ceiling 4MP	In-Ceiling 6MP	In-Ceiling 8MP	Outdoor 2MP	Outdoor 4MP	Outdoor 5MP	Outdoor 6MP	Outdoor 8MP	Pendant 2MP	Pendant 4MP	Pendant 5MP	Pendant 6MP	Pendant 8MP
❶ 3.3-9 mm F1.3, P-Iris	Angle of View	34° – 99°	34° – 92°	–		34° – 99°	34° – 92°	–		34° – 99°	34° – 92°	–			34° – 99°	34° – 92°	–		
	Minimum Illumination (color / monochrome)	0.027 lux / 0.014 lux	0.03 lux / 0.015 lux	–		0.027 lux / 0.014 lux	0.03 lux / 0.015 lux	–		0.027 lux / 0.014 lux	0.03 lux / 0.015 lux	–			0.027 lux / 0.014 lux	0.03 lux / 0.015 lux	–		
❶ 4.9-8 mm F1.8, P-Iris	Angle of View	–	52° – 92°			–	52° – 92°				52° – 92°					52° – 92°			
	Minimum Illumination (color / monochrome)	–	0.055 lux / 0.028 lux			–	0.055 lux / 0.028 lux				0.055 lux / 0.028 lux					0.055 lux / 0.028 lux			
❷ 9-22mm F1.6, P-Iris	Angle of View	14° – 31°		–		14° – 31°		–		14° – 31°		–			14° – 31°		–		
	Minimum Illumination (color / monochrome)	0.052 lux / 0.026 lux	0.058 lux / 0.029 lux	–		0.052 lux / 0.026 lux	0.058 lux / 0.029 lux	–		0.052 lux / 0.026 lux	0.058 lux / 0.029 lux	–			0.052 lux / 0.026 lux	0.058 lux / 0.029 lux	–		

Part number varies based on camera resolution (R) and lens option number (L).

H5A

Features next-generation video analytics to provide a smarter and more powerful video security solution from the moment you set it up.

Model Name Part Number with Optional IR Illuminators		H5A Box Ⓡ.0C-H5A-BⓁ –				H5A Bullet – Ⓡ.0C-H5A-BOⓁ-IR				
Resolution Ⓡ		❷ MP	❹ MP	❻ MP	❽ MP	❷ MP	❹ MP	❺ MP	❻ MP	❽ MP
Image Sensor (progressive scan CMOS)		1/2.8"		1/1.8"		1/2.8"			1/1.8"	
Dynamic Range		132 dB	126 dB	120 dB		132 dB	126 dB		120 dB	
Wide Dynamic Range		Yes								
Max. Image Rate		30 fps								
LightCatcher Technology		Yes								
Max. IR Illumination Distance (at 0 lux)		–				90m (295 ft)[1]			50m (164 ft)	
Environmental		–				IP66 / IP67 weather rating, IK10 impact rating				
Image Compression Technologies		H.265 HDSM SmartCodec, H.264 HDSM SmartCodec, MJPEG								
Analytics Technologies		Next-Generation Video Analyitcs								
Audio Compression Method		Opus, G.711 PCM 8 kHz								
Audio Input/Output		Line level input/output								
External I/O Terminals		Alarm in, alarm out								
Power Source	External Power	VDC: 12V, VAC: 24V								
	PoE	IEEE802.3af Class 3 compliant								
ONVIF Compliance		Profile S and Profile T								
Onboard Storage		SD/SDHC/SDXC slot – class 10/UHS-1 or better recommended								

LENS OPTIONS[3] Ⓛ (Remote Zoom and Focus)

		2MP (Box)	4MP (Box)	6MP (Box)	8MP (Box)	2MP (Bullet)	4MP (Bullet)	5MP (Bullet)	6MP (Bullet)	8MP (Bullet)
❷ 3.3-9 mm F1.3, P-Iris	Angle of View	34° – 99°	34° – 92°	–		34° – 99°	34° – 92°		–	
	Minimum Illumination (color / monochrome)	0.027 lux / 0.014 lux	0.03 lux / 0.015 lux	–		0.027 lux / 0 lux[2]	0.03 lux / 0 lux[2]		–	
❷ 4.9-8 mm F1.8, P-Iris	Angle of View	–		52° – 92°		–			52° – 92°	
	Minimum Illumination (color / monochrome)	–		0.055 lux / 0.028 lux		–			0.055 lux / 0 lux[2]	
❸ 9-22 mm F1.6, P-Iris	Angle of View	–	14° – 31°	–		14° – 31°			–	
	Minimum Illumination (color / monochrome)	–	0.058 lux / 0.029 lux	–		0.052 lux / 0 lux[2]	0.058 lux / 0 lux[2]		–	
❶ 4.7-84.6 mm F1.6, P-iris	Angle of View	4.1° – 60°	–							
	Minimum Illumination (color / monochrome)	0.039 lux / 0.02 lux	–							

[1] With 9-22 mm lens. Max IR illumination distances varies based on lens and temperature - please refer to camera datasheet.
[2] With optional IR.
[3] Not all resolutions and lens combinations are valid. Please see product datasheet for details.
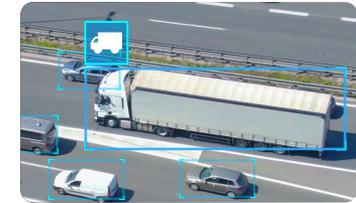
Expanded object classifications and more accurate detection in crowded scenes will help focus your attention on the most important information needed to help you detect, verify and act faster.

Part number varies based on camera resolution (Ⓡ) and lens option number (Ⓛ).

H5SL

Features wide and long-range lens variants that are available in a variety of resolutions to provide you with a simple, flexible and cost-effective security solution.

Model Name Part Number with Optional IR Illuminators	H5SL Bullet – (R)C-H5SL-BO(L)-IR				H5SL Dome (Outdoor) (R)C-H5SL-DO1 (R)C-H5SL-DO1-IR				H5SL Dome (Indoor) (R)C-H5SL-D1 (R)C-H5SL-D1-IR			
Resolution per Sensor (R)	1.3 MP	2.0 MP	3.0 MP	5.0 MP	1.3 MP	3.0 MP	5.0 MP	5.0 MP	1.3 MP	2.0 MP	3.0 MP	5.0 MP
Image Sensor (progressive scan CMOS)	1/2.8"											
Max. Dynamic Range	120 dB											
Wide Dynamic Range	Yes											
Max. Image Rate	30 fps			25 fps	30 fps			25 fps	30 fps			25 fps
LightCatcher Technology	Yes											
Max. IR Illumination Distance	70 m (230 ft)[1]				30 m (100 ft)[1]							
Environmental	IK10 impact rating, IP66 and IP67 weather rating								–			
Image Compression Technologies	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG											
Analytics Technologies	Unusual Motion Detection											
Audio Compression Method	Opus, G.711 PCM 8 kHz											
Audio Input/Output	Line level input/output											
External I/O Terminals	Alarm in, alarm out											
Power Source	PoE: IEEE802.3af Class 3 compliant											
ONVIF Compliance	Profile S and Profile T											
Onboard Storage	microSD/microSDHC/microSDXC slot											

LENS OPTIONS (L) (Remote Zoom and Focus)

		H5SL Bullet				H5SL Dome (Outdoor)				H5SL Dome (Indoor)			
(1) 3–9 mm, F1.4	Max. Angle of View[3]	–								35° − 90°			–
	Minimum Illumination (color / monochrome)	–								0 lux[2]			–
(1) 3.1–8.4 mm, F1.6	Max. Angle of View[3]	34° − 91°		35° − 90°		35° − 90°				–			35° − 90°
	Minimum Illumination (color / monochrome)	0 lux[2]											
(2) 9.5–31 mm, F1.4	Max. Angle of View[3]	–		10° − 32°	9.5° − 30°	–							
	Minimum Illumination (color / monochrome)	–		0 lux[2]		–							

[1] Varies based on camera settings and lens option — refer to datasheet.
[2] With optional IR.
[3] Based on aspect ratio — refer to datasheet.

Part number varies based on camera resolution ((R)) and lens option number ((L)).

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H5M

Small and mighty, the H5M camera can handle tough environmental conditions while offering advanced AI technology for faster responses times and simple installation.

Model Name Part Number	H5M Ⓡ.0C-H5M-DO1-IR	
Resolution Ⓡ	❷ MP	❺ MP
Image Sensor (progressive scan CMOS)	1/2.8"	
Max. Dynamic Range (dual exposure)	110 dB	
Wide Dynamic Range	Yes	
Max. Image Rate	30 fps	24 fps
LightCatcher Technology	Yes	
Max. IR Illumination Distance (at 0 lux)	15 m (50 ft)	
Environmental	-30 °C to +55 °C (-22 °F to 131 °F)	
Image Compression Technologies	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG	
Analytics Technologies	Unusual Motion Detection	
External I/O Terminals	No	
Power Source	PoE: IEEE802.3af Class 0 compliant	
ONVIF Compliance	Profile S and Profile T	
Onboard Storage	No	

LENS

2.8mm, F1.2, IR Corrected	Angle of View	(16:9) 1920 × 1080	(4:3) 2592 × 1944
	Minimum Illumination (color / monochrome)	0.04 lux / 0.02 lux	0.02 lux / 0.01 lux

H4 MINI DOME

Our smallest and most discreet camera, providing exceptional image quality for your indoor security needs at an entry-level price point.

Model Name Part Number with Optional IR Illuminators	H4 Mini Dome ⒷC-H4M-D1 ⒷC-H4M-D1-IR		
Resolution Ⓡ	❶.❸ MP	❷ MP	❸ MP
Image Sensor (progressive scan CMOS)	1/2.8"		
Max. Dynamic Range	100 dB		
Wide Dynamic Range	No		
Max. Image Rate	30 fps		20 fps
LightCatcher Technology	Yes		
Max. IR Illumination Distance (at 0 lux)	10 m (33 ft)		
Environmental	Indoor applications		
Image Compression Technologies	H.264 HDSM SmartCodec, Motion JPEG		
Analytics Technologies	Unusual Motion Detection		
External I/O Terminals	No		
Power Source	PoE: IEEE802.3af Class 2 compliant		
ONVIF Compliance	Profile S and Profile T		
Onboard Storage	–		

LENS

2.8mm, F1.2, IR Corrected	Angle of View (5:4 / 16:9 / 4:3)	74º / 110º	94º / 100º / 100º
	Minimum Illumination (color / monochrome)	0.01 lux / 0 lux*	0.02 lux / 0 lux*

* With optional IR.

H4 MULTISENSOR

Combines self-learning video analytics with exceptional coverage, featuring three or four individually-adjustable camera sensors that can be positioned to monitor virtually any area.

Model Name / Part Number[1]	3-Sensor ⓇC-H4A-3MH-Ⓒ			4-Sensor ⓇC-H4A-4MH-Ⓒ		
Resolution Ⓡ (total / per sensor)	⑨ MP / 3 MP	⑮ MP / 5 MP	㉔ MP / 8 MP	⑫ MP / 3 MP	⑳ MP / 5 MP	㉜ MP / 8 MP
Image Sensor (progressive scan CMOS)	1/2.8″	1/2.8″	1/2.5″	1/2.8″	1/2.8″	1/2.5″
Max. Dynamic Range	100 dB					
Wide Dynamic Range	Yes					
Max. Image Rate[2]	25 fps			20 fps		
LightCatcher Technology	Yes					
Max. IR Illumination Distance (at 0 lux)	30 m (98 ft)					
Environmental	IP66 weather rating, IK10 impact rating. Surface Mount and Pendant only.					
Image Compression Technologies	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG					
Analytics Technologies	Self-learning video analytics					
Audio Compression Method	G.711 PCM 8 kHz					
Audio Input/Output	Line level input/output					
External I/O Terminals	Alarm in, alarm out					
Power Source[3] — External Power	24 VDC ± 10%; 24 VAC rms ± 10%, 50 or 60Hz					
Power Source[3] — PoE	25.5W PoE+, IEEE 802.3at Type 2 PoE Plus — With IR: 51W PoE++[2] Without IR: 25.5W PoE+, IEEE 802.3at Type 2 PoE Plus					
ONVIF Compliance	Profile S and Profile T					
Onboard Storage	MicroSD/microSDHC/microSDXC slot (class 10/UHS-1 or better recommended)					

LENS OPTIONS (Remote Zoom and Focus)

		3-Sensor (9/15 MP)	3-Sensor (24 MP)	4-Sensor (12/20 MP)	4-Sensor (32 MP)
2.8 mm, F1.2	Total Coverage Ⓒ	270°	–	360°	–
	Minimum Illumination (color / monochrome)	0.025 lux / 0.005 lux[4]	–	0.025 lux / 0.005 lux	–
4 mm, F1.6	Total Coverage Ⓒ	180°	–	–	–
	Minimum Illumination (color / monochrome)	0.05 lux / 0.010 lux[4]	–	–	–
4 mm, F1.8	Total Coverage Ⓒ	–	270°	–	360°
	Minimum Illumination (color / monochrome)	–	0.2 lux / 0.04 lux[4]	–	0.2 lux / 0.04 lux[4]
5.2 mm, F1.8	Total Coverage Ⓒ	–	180°	–	–
	Minimum Illumination (color / monochrome)	–	0.2 lux / 0.04 lux[4]	–	–

[1] This is the part number for the camera module only. Please see accessories page for mounting adapters.
[2] Using High Frame Rate Mode. Image rate is affected by analytics settings — refer to camera datasheet.
[3] Compatible with matching Avigilon 60W Injector.
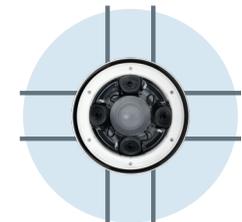[4] 0 lux with optional IR illuminator.

Part number varies based on camera resolution (Ⓡ) and total coverage value (Ⓒ).

180° Coverage

270° Coverage

360° Coverage

Wide Sensor Angle

H4 PTZ

Combines powerful, high-speed tracking with 360-degree coverage and up to 30x zoom for high-quality, detailed images.

Model Name Part Number	Indoor In-Ceiling **R**.0C-H4PTZ-DC-**Z**		Indoor/Outdoor Pendant **R**.0C-H4PTZ-DP-**Z**	
Resolution **R**	**1** MP	**2** MP	**1** MP	**2** MP
Image Sensor (progressive scan CMOS)	1/2.8"			
Optical Zoom **Z**	**45**x	**30**x	**45**x	**30**x
Pan	360°, endless, 450°/second			
Tilt	-10° to 90°, e-Flip, 360°/second			
Max. Dynamic Range	120+ dB			
Wide Dynamic Range	Yes			
Max. Image Rate	60 fps			
LightCatcher Technology	Yes			
Max. IR Illumination Distance (at 0 lux)	–			
Environmental	Indoor applications		IP66/IP67 weather rating, IK10 impact rating	
Image Compression Technologies	H.264 HDSM SmartCodec, Motion JPEG			
Analytics Technologies	Self-learning video analytics			
Audio Compression Method	G.711 PCM 8 kHz			
Audio Input/Output	Line level input/output			
External I/O Terminals	Alarm in, alarm out			
Power Source — External Power	VDC: 24 V VAC: 24 V			
Power Source — PoE	IEEE 802.3at Class 4 PoE+		IEEE 802.3at Class 4 PoE+; 60W PoE++[1]	
ONVIF Compliance	Profile S			
Onboard Storage	SD/SDHC/SDXC slot (minimum class 4, class 6 or better recommended)			

LENS (Remote Zoom and Focus)

4.3–129 mm, F1.6–F4.7, Autofocus	Angle of View	1.5° – 63.7°	2.3° – 63.7°	1.5° – 63.7°	2.3° – 63.7°
	Minimum Illumination (color / monochrome)	0.01 lux / 0.03 lux			

[1] Compatible with matching Avigilon 60W Injector.

H4 IR PTZ

Offers powerful zoom and IR technology to provide broad coverage and allow you to see up to 250 m (820 ft) in complete darkness.

Model Name Part Number with optional wiper	H4 IR PTZ **R**.0C-H4IRPTZ-DP**Z** **R**.0C-H4IRPTZ-DP**Z**-WP	
Resolution **R**	**1** MP	**2** MP
Image Sensor (progressive scan CMOS)	1/2.8"	
Optical Zoom **Z**	**45**x	**30**x
Pan	360°, endless, 300°/second	
Tilt	-20° to 90°, Auto-Flip, 300°/second max	
Max. Dynamic Range	120+ dB	
Wide Dynamic Range	Yes	
Max. Image Rate	60 fps	
LightCatcher Technology	Yes	
Max. IR Illumination Distance (at 0 lux)	250 m (820 ft)	
Environmental	IP66 weather rating, IK10 impact rating	
Image Compression Technologies	H.264 HDSM SmartCodec, Motion JPEG	
Analytics Technologies	Self-learning video analytics	
Audio Compression Method	G.711 PCM 8 kHz	
Audio Input/Output	Line level input/output	
External I/O Terminals	4 alarm in, 2 alarm out	
Power Source — External Power	VDC: 24 V VAC: 24 V	
Power Source — PoE	60W PoE++ or 90W PoE++[1]	
ONVIF Compliance	Profile S	
Onboard Storage	microSD/microSDHC/microSDXC slot	

LENS (Remote Zoom and Focus)

4.3–129 mm, F1.6–F4.7, Autofocus	Angle of View	1.5° – 63.7°	2.3° – 63.7°
	Minimum Illumination	0 lux	

[1] Power consumption depends on temperature requirements. Compatible with matching Avigilon 60W or 95W Injector.

Part number varies based on camera resolution (**R**) and optical zoom (**Z**).

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H4ES CAMERA LINE

Combines HD imaging, self-learning video analytics, network video recorder functionality and embedded ACC™ software to create an all-in-one video security solution.

Model Name Part Number	128 GB Onboard Storage or 256 GB Onboard Storage	Outdoor Dome – Surface 1.0C-H4A-12G-DO1-IR Ⓡ.0C-H4A-25G-DO1-IR			Outdoor Dome – Pendant 1.0C-H4A-12G-DP1-IR Ⓡ.0C-H4A-25G-DP1-IR			Indoor/Outdoor Bullet Ⓡ.0C-H4A-12G-BOⓁ-IR Ⓡ.0C-H4A-25G-BOⓁ-IR			Box 1.0C-H4A-12G-B1 Ⓡ.0C-H4A-25G-B1		
Resolution per Sensor Ⓡ		❶ MP	❷ MP	❸ MP	❶ MP	❷ MP	❸ MP	❶ MP	❷ MP	❸ MP	❶ MP	❷ MP	❸ MP
Image Sensor (progressive scan CMOS)		1/2.8"											
Max. Dynamic Range		120 dB											
Wide Dynamic Range		Yes											
Max. Image Rate		30 fps[1]											
LightCatcher Technology		Yes											
Max. IR Illumination Distance (at 0 lux)		30 m (98 ft)						70 m (230 ft)[2]			–		
Environmental		IK10 impact rating, IP66 weather rating									–		
Image Compression Technologies		H.264 HDSM SmartCodec, Motion JPEG											
Analytics Technologies		Self-learning video analytics, Unusual Motion Detection											
Audio Compression Method		G.711 PCM 8 kHz											
Audio Input/Output		Line level input/output											
External I/O Terminals		Alarm In, Alarm Out											
Power Source	External Power	VDC: 12 V VAC: 24 V						VDC: 12 V VAC: 24 V			VDC: 12 V VAC: 24 V		
	PoE	PoE: IEEE802.3af Class 3 compliant											
ONVIF Compliance		Profile S and Profile T											
Onboard Storage (Solid-State Drive)		128 GB	256 GB	256 GB	128 GB	256 GB	256 GB	128 GB	256 GB	256 GB	128 GB	256 GB	256 GB

LENS OPTIONS Ⓛ (Remote Zoom and Focus)

❶ 3–9 mm, F1.3, P-Iris	Max. Angle of View	30° – 91°		32° – 98°	30° – 91°		32° – 98°	30° – 91°		32° – 98°	–		
	Minimum Illumination (color / monochrome)	0.04 lux / 0.008 lux			0.04 lux / 0.008 lux			0.04 lux / 0 lux			–		
❷ 9–22 mm, F1.6, P-Iris	Max. Angle of View	–						14° – 29°		15° – 31°	–		
	Minimum Illumination (color / monochrome)	–						0.08 lux / 0 lux			–		
4.7–84.6 mm, F1.6, P-Iris	Max. Angle of View	–									3.3° – 55°		3.5° – 59°
	Minimum Illumination (color / monochrome)	–									0.08 lux / 0.016 lux		

[1] High frame rate mode.
[2] With 9–22 mm lens. Max. IR illumination distance varies based on lens and temperature — please refer to camera datasheet.

Part number varies based on camera resolution (Ⓡ) and lens option number (Ⓛ).

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H4 FISHEYE

Offers a high-resolution, 360-degree panoramic view with no blind spots. Easy to install and designed to provide broad coverage with fewer cameras.

Model Name Part Number	H4 Fisheye **R**.0L-H4F-DO1-IR	
Resolution **R**	**6** MP	**12** MP
Image Sensor (progressive scan CMOS)	1/1.8"	1/2.3"
Max. Dynamic Range	93 dB	81 dB
Wide Dynamic Range	No	
Max. Image Rate[1]	30 fps	20 fps
LightCatcher Technology	Yes	No
Max. IR Illumination Distance (at 0 lux)	10 m (32.8 ft)	
Environmental	IK10 impact rating[2]	
Image Compression Technologies	H.264 HDSM SmartCodec, Motion JPEG	
Analytics Technologies	No	
Audio Compression Method	G.711 8kHZ	
Audio Input/Output	Line level input/output and internal microphone (can be enabled)	
External I/O Terminals	Alarm in, alarm out	
Power Source — External Power	VDC: 12 V	
Power Source — PoE	PoE: IEEE 802.3af Class 3; PoE+: IEEE 802.3at Class 4	
ONVIF Compliance	Profile S and Profile T	
Onboard Storage	microSDHC/microSDXC/UHS-1 (minimum class 10 or better recommended)	

LENS

Fisheye, 1.45 mm, F2.2	Angle of View	180º hemisphere	
	Minimum Illumination (color / monochrome)	0.13 lux / 0 lux	0.49 lux / 0 lux

[1] Varies based on image compression — please refer to camera datasheet.
[2] Camera housing only.

H4 LICENSE PLATE CAPTURE (LPC)

Uses IR illumination, visible light filtering and license plate recognition analytics to capture license plates at typical vehicle speeds in varying lighting conditions.

Model Name Part Number[1]	H4 LPC 3.0C-HD-LP-B1
Resolution	3 MP
Image Sensor (progressive scan CMOS)	1/2.8"
Max. Dynamic Range	–
Wide Dynamic Range	No
Max. Image Rate	30 fps
Maximum Capture Speed	100 km/h (62 mph)
LightCatcher Technology	No
Max. IR Illumination Distance (single lane / dual lane)	30 m (100 ft) / 14 m (46 ft)
Environmental	IP66 weather rating[2]
Image Compression Technologies	H.264 HDSM SmartCodec, Motion JPEG
Analytics Technologies	No
Audio Compression Method	G.711 PCM 8 kHz
Audio Input/Output	Line level input/output
External I/O Terminals	Alarm in, alarm out
Power Source — External Power	VDC: 12V VAC: 24V
Power Source — PoE	IEEE802.3af Class 3 compliant
ONVIF Compliance	Profile S
Onboard Storage	SD/SDHC/SDXC slot (minimum class 4, class 6 or better recommended)

LENS (Remote Zoom and Focus)

4.7–84.6 mm, F1.6, P-Iris	Angle of View	3.5º – 59º
	Minimum Illumination (monochrome)	0 lux

[1] This is the part number for the camera module only. Please see accessories page for enclosure and IR illuminator.
[2] This is outdoor rated - the kit includes enclosure.

H4 THERMAL

Combines patented self-learning video analytics with thermal technology to provide you with long-range perimeter protection, even under the most challenging conditions.

Model Name Part Number		H4 Thermal QVGA 320S-H4A-THC-BO50	320S-H4A-THC-BO24	320S-H4A-THC-BO12	640S-H4A-THC-BO50	H4 Thermal VGA 640S-H4A-THC-BO24	640S-H4A-THC-BO12[1]
Resolution		320x256[2]			640x512[3]		
Sensitivity		NETD <60mK					
Image Sensor		Uncooled VOx Microbolometer					
Dynamic Range		-40 °C to 225 °C (-40 °F to 437 °F)[4]					
Max. Image Rate		8.6 fps					
Operating Temperature Range		-40 ºC to +65 ºC (-40 ºF to 149 ºF)					
Environmental		IP66 weather rating, IK10 impact rating			IP66 and IP67 weather rating, IK10 impact rating[5]		
Image Compression Technologies		H.264 HDSM SmartCodec, Motion JPEG					
Analytics Technologies		Self-learning video analytics					
Audio Compression Method		G.711 PCM 8kHz					
Audio Input/Output		Line level input/output					
External I/O Terminals		Alarm in, alarm out					
Power Source	External Power	VDC: 12V VAC: 24V			VDC: 12V VAC: 24V		
	PoE	IEEE802.3af Class 3 compliant					
ONVIF Compliance		Profile S and Profile T			Profile S		
Onboard Storage		SD/SDHC/SDXC slot (minimum class 4, class 6 or better recommended)					

LENS OPTIONS

4.3 mm, F1.0, Athermalized	Angle of View	45.9°			–		
	Classified Object Detection Range	Human: 68 m (224 ft) Vehicle: 80 m (263 ft)[6]			–		
9.1 mm, F1.0, Athermalized	Angle of View	–	21.6°		–		
	Classified Object Detection Range	Human: 150 m (493 ft) Vehicle: 160 m (525 ft)[6]			–		
8.7 mm, F1.0, Athermalized	Angle of View	–			50.7º	–	
	Classified Object Detection Range	–			Human: 120 m (394 ft) Vehicle: 142 m (466 ft)[6]		
18.0 mm, F1.0, Athermalized	Angle of View	–	10.8º		–	24.3º	–
	Classified Object Detection Range	Human: 220 m (722 ft) Vehicle: 225 m (739 ft)[6]			Human: 210 m (689 ft) Vehicle: 225 m (739 ft)[6]		
36.0 mm, F1.0, Athermalized	Angle of View	–					12.2º
	Classified Object Detection Range	–			Human: 310 m (1017 ft) Vehicle: 319 m (1047 ft)[6]		

[1] Image shows this model.
[2] Can be scaled up to 640x512.
[3] Can be scaled down to 320x256.
[4] May vary based on operating temperature.
[5] Enclosure only.
[6] Detection ranges may vary in different weather conditions.

H4 VIDEO INTERCOM

Integrates a fisheye camera with a high-performance intercom,
featuring echo-canceling and noise reduction technologies,
for clear two-way communication

Model Name Part Number	H4 Video Intercom 3.0C-H4VI-RO1-IR
Resolution	3 MP
Image Sensor (progressive scan CMOS)	1/2.8"
Max. Dynamic Range	120 dB
Wide Dynamic Range	Yes
Max. Image Rate	30 fps
LightCatcher Technology	Yes
Max. IR Illumination Distance (at 0 lux)	5 m (15 ft)
Environmental	IP66 weather rating, IK10 impact rating[1]
Image Compression Technologies	H.264 HDSM SmartCodec, Motion JPEG
Analytics Technologies	Appearance Search™ technology
Audio Compression Method	Opus, G.711
Audio Input/Output	Built-in microphone with hardware disable / built-in speaker
External I/O Terminals	1 alarm in, 2 alarm out, 1 tamper out
Power Source — External Power	VDC: 12V
Power Source — PoE	IEEE802.3af Class 3 compliant
ONVIF Compliance	Profile S
Onboard Storage	microSD/microSDHC/microSDXC slot

LENS

Fisheye, 1.83 mm, F2.4, IR Corrected — Angle of View	170°
Fisheye, 1.83 mm, F2.4, IR Corrected — Minimum Illumination	0 lux

[1] IK08 Impact Rating on bubble.
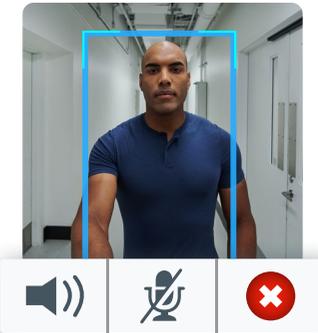
Enables operators to monitor and control access at entry points through two-way audio communication, video verification, and the ability to send a door grant through Avigilon Control Center™ software.

H4 PRO

Features ultra-high resolution, wide area coverage and powerful zoom to enhance situational awareness and provide superior evidentiary detail during investigations.

Model Name Part Number		4K H4 Pro 8L-H4PRO-B	4.5K H4 Pro 12L-H4PRO-B	5K H4 Pro 16L-H4PRO-B	6K H4 Pro 24L-H4PRO-B	7K H4 Pro 30L-H4PRO-B
Resolution		8 MP (4K)	12 MP (4.5K)	16 MP (5K)	24 MP (6K)	30 MP (7K)
Image Sensor (progressive scan CMOS)		27.2 mm (Type 1.8)			43.3 mm (Type 2.7)	
Max. Dynamic Range		70 dB				
Wide Dynamic Range		No				
Max. Image Rate		12 fps		10 fps	8 fps	6 fps
LightCatcher Technology		Yes				
Max. IR Illumination Distance		–				
Minimum Illumination		0.005 lux*				
Environmental		Refer to available enclosure options.				
Image Compression Technologies		H.264 HDSM SmartCodec, Motion JPEG				
Analytics Technologies		Self-learning video analytics			No	
Audio Compression Method		G.711 PCM 8 kHz				
Audio Input/Output		Line level input/output				
External I/O Terminals		Alarm in, alarm out				
Power Source	External Power	VDC: 12 V VAC: 24 V				
	PoE	IEEE802.3af Class 3 compliant				
ONVIF Compliance		Profile S			No	
Onboard Storage		SD/SDHC/SDXC slot				

* At F1.4.

H4 PRO CAMERA LINE LENS OPTIONS

4K, 4.5K AND 5K MODELS

Part Number	Description
LEF2414CA	Canon 24mm F1.4L, Auto-Iris
LEF2818CA	Canon 28mm F1.8, Auto-Iris
LEFS3014SI*	Sigma 30mm F1.4, 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 F1.4, Auto-Iris
LEF5018CA2	Canon 50mm F1.8, Auto-Iris
LEF8512CA	Canon 85mm F1.2L, 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, Auto-Iris, Vari Focal
LEF7030040CA	Canon 70-300mm F4-5.6 IS, Auto-Iris, Vari Focal, with image stabilization
LEF7030040CA2	Canon 70-300mm F4-5.6L 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.

6K AND 7K MODELS

Part Number	Description
LEF2414CA	Canon 24mm F1.4L, Auto-Iris
LEF2818CA	Canon 28mm F1.8, 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 F1.4, Auto-Iris
LEF5018CA2	Canon 50mm F1.8, Auto-Iris
LEF8512CA	Canon 85mm F1.2L, Auto-Iris
LEF8518CA	Canon 85mm F1.8, Auto-Iris
LEF10020CA	Canon 100mm F2.0, Auto-Iris
LEF20028CA	Canon 200mm F2.8L, Auto-Iris
LEF163528CA2*	Canon 16-35mm F2.8L III, 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 F4-5.6L IS Auto-Iris, Vari Focal, with image stabilization
LEF10040045CA2*	Canon 100-400mm F4.5-5.6L IS II, Auto-Iris, Vari Focal, with image stabilization

* Lenses require AUX power.

ACCESSORIES

H5A DOME CAMERAS

Type	Part Number
Clear dome bubble	H4A-DD-CLER1
	H4A-DC-CLER1
	H4A-DO-CLER1
	H4A-DP-CLER1
	H4A-DD-CLER1-BL*
	H4A-DC-CLER1-BL*
Smoke dome bubble	H4A-DD-SMOK1
	H4A-DC-SMOK1
	H4A-DO-SMOK1
	H4A-DP-SMOK1
	H4A-DD-SMOK1-BL*
Metal ceiling panel	H4A-DC-CPNL1
Indoor dome camera sidewall knockout plug, pack of 5	H4A-DD-SDWL1
Pendant NPT mount	H4A-MT-NPTA1
Pendant wall arm mount	H4A-MT-WALL1
Corner mount adapter	H4-MT-CRNR1
Pole mount adapter	H4-MT-POLE1
PoE injector	POE-INJ2-STD
USB WiFi adapter	H4-AC-WIFI1-NA
	H4-AC-WIFI2-EU

* Black variant.

H4 VIDEO INTERCOM

Type	Part Number
Surface mount adapter	H4VI-MT-SURF1
Safety relay	H4VI-AC-RELY1
PoE injector	POE-INJ2-STD

H5A BULLET & H4 THERMAL CAMERAS

Type	Part Number
Junction box	H4-BO-JBOX1
Corner mount adapter	H4-MT-CRNR1
Pole mount adapter	H4-MT-POLE1
PoE injector	POE-INJ2-STD
USB WiFi adapter	H4-AC-WIFI1-NA
	H4-AC-WIFI2-EU

H5A BOX CAMERAS

Type	Part Number
Small Format Enclosure	ES-HD-HWS-SM
Standard Format Enclosure	ES-HD-HWS
Standard Format Enclosure for cameras with vented cooler	ES-HD-CWS
Optional PoE+ power module1	ES-HD-IPM
Large pole mount for pole diameter 210mm (8.2 in) to 225mm (8.85 in)	ES-HD-MNT-POLE-LG
Medium pole mount for pole diameter 80mm (3 in) to 150mm (5.9 in)	ES-HD-MNT-POLE-MD
Ceiling arm mount2	ES-HD-MNT-ARM

[1] Compatible with ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG.
[2] Compatible with ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG and ES-HD-CWS-LG.

H4 FISHEYE CAMERA

Type	Part Number
NPT adapter	H4F-MT-NPTA1
Pendant wall arm	CM-MT-WALL1
Corner mount adapter	H4-MT-CRNR1
Pole mount adapter	H4-MT-POLE1
PoE injector	POE-INJ2-STD

H5M CAMERA

Type	Part Number
In-ceiling mount	H5M-MT-DCIL1
Package of 4 camera shroud replacement parts	H5M-DO-BZL1

H4 MINI DOME CAMERA

Type	Part Number
Package of 5 black surface mount bezels	H4M-BZL-BL1
Grey in-ceiling mount adapter	H4M-MT-DCIL1
Black in-ceiling mount adapter	H4M-MT-DCIL1-BL
Grey pendant mount adapter	H4M-MT-NPTA1
Black pendant mount adapter	H4M-MT-NPTA1-BL
PoE injector	POE-INJ2-STD

H4SL & H5SL DOME CAMERAS

Type	Part Number
In-ceiling mount	H4SL-MT-DCIL1
NPT adapter	H4SL-MT-NPTA1
Pendant wall arm	CM-MT-WALL1
USB WiFi adapter	H4-AC-WIFI1-NA
	H4-AC-WIFI2-EU
Corner amount adapter	H4-MT-CRNR1
Pole mount adapter	H4-MT-POLE1
Junction box	H4-BO-JBOX1
PoE injector	POE-INJ2-STD

ACCESSORIES

H4 MULTISENSOR CAMERA

Type	Part Number
Pendant wall mount (Order one of each of)	H4AMH-AD-PEND1
	H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE
	IRPTZ-MNT-WALL1
	Optional, H4AMH-AD-IRIL1
NPT mount (Order one of each of)	H4AMH-AD-PEND1
	H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE
	IRPTZ-MNT-NPTA1
	Optional, H4AMH-AD-IRIL1
In-ceiling mount (Order one of each of)	H4AMH-AD-CEIL1
	H4AMH-DC-COVR1 or H4AMH-DC-COVR1-SMOKE
	Optional, H4AMH-DC-CPNL1 if ceiling panel needed
Surface mount (Order one of each of)	H4AMH-AD-DOME1
	H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE
	Optional, H4AMH-AD-IRIL1
Camera modules	9C-H4A-3MH-270
	9C-H4A-3MH-180
	15C-H4A-3MH-270
	15C-H4A-3MH-180
	24C-H4A-3MH-270
	24C-H4A-3MH-180
	12C-H4A-4MH-360
	20C-H4A-4MH-360
	32C-H4A-4MH-360
Pole mount adapter	H4-MT-POLE1
Corner mount adapter	H4-MT-CRNR1
Optional injectors and switches	ES-PS-S4
	ES-PS-MNT-POLE1
	POE-INJ2-60W
	POE-INJ2-PLUS

H4 LPC CAMERA

Type	Part Number
Pedestal and ceiling mount	ES-HD-MNT-PAR
Large pole mount	ES-HD-MNT-POLE-LG
Medium pole mount	ES-HD-MNT-POLE-MD
Small pole mount	ES-HD-MNT-POLE-SM
Wall reinforcing plate	ES-HD-MNT-PLATE
Corner mount adapter	ES-HD-MNT-CORNER

H4 PTZ CAMERA

Type	Part Number
Clear dome bubble	PTZMH-DC-CLER1
	PTZMH-DP-CLER1
Smoked dome bubble	PTZMH-DC-SMOK1
	PTZMH-DP-SMOK1
Metal ceiling panel	PTZMH-DC-CPNL1
Pendant wall mount	CM-MT-WALL1
Corner mount adapter	H4-MT-CRNR1
Pole mount adapter	H4-MT-POLE1
60 W PoE injector	POE-INJ2-60W

H4 IR PTZ CAMERA

Type	Part Number
Pendant wall mount	IRPTZMH-MT-WALL1
NPT adapter	IRPTZ-MNT-NPTA1
	H4-MT-CRNR1
	H4MT-POLE1

H4 PRO CAMERAS

Type	Part Number
Large format enclosure	ES-HD-HWS-LG
Large format enclosure with vented cooler	ES-HD-CWS-LG
Extra large format enclosure	ES-HD-HS-XL
Optional PoE+ power module1	ES-HD-IPM
Large pole mount for pole diameter 210mm (8.2 in) to 225mm (8.85 in)	ES-HD-MNT-POLE-LG
Medium pole mount for pole diameter 80mm (3 in) to 150mm (5.9 in)	ES-HD-MNT-POLE-MD
Ceiling arm mount[2]	ES-HD-MNT-ARM
Ball joint mount[3]	ES-HD-MNT-WBLA

[1] Compatible with ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG and ES-HD-CWS-LG.
[2] Compatible with ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG and ES-HD-CWS-LG.
[3] Compatible with ES-HD-HS-XL.

BODY-WORN CAMERAS

Commercial organizations need a mobile video security solution that protects people and proves professionalism. Next-generation body-worn cameras from Motorola Solutions capture high-quality audio and video from the wearer's perspective. Seamless integration with existing video management infrastructure via WiFi enhances situational awareness in the control room, delivering a powerful new narrative and enabling a smarter response.

VT100

Designed to complement your current security function, providing additional body-worn protection to staff throughout any organization.

Model Name Part Number		VT100 VT-100-N
Features	Dimensions	80mm x 51mm x 22mm
	Weight	72g, plus mounting
	Charging	Up to five hours from fully flat battery
	GPS	No
	Bluetooth	No
	RFID Assignment	Yes
Video	Recording Storage	16GB
	Recording Time	Up to three hours
	Battery On Standby	Six months
	Battery Type	Lithium-Ion
	Horizontal Field of View	130 degrees
	Pre-Record	No
	Peer-Assisted Recording	No
	Holster Sensor	No
Security	Storage Media	Internal solid state
	Access	Sealed unit, no user access to storage media or battery
WiFi	WiFi Specification	802.11 ac/a/b/g/n (2.4GHz &5GHz)
	WiFi Security	WPA2-PSK, WPA2-EAP-PEAP (user pass), WPA2-EAP-TLS (certificate)
	WiFi Streaming	RTSP, 640x268p (SD) 700kbps, 64kps audio with digest or open authentication
Certification	EMC	Yes
	FCC	Yes
	CE	Yes
	Environmental	IP65 weather rating

VB400

Ruggedized camera with advanced recording and communications features enabling security professionals in commercial organizations to perform their best when it matters most.

Model Name Part Number		VB400 VB-400-64-Ⓕ-N
Features	Dimensions	68mm x 89mm x 25mm
	Weight	160g, plus mounting
	Charging	Up to eight hours from fully flat battery
	GPS	Internal GPS receiver
	Bluetooth	BT 2.1 + EDR, BLE 4.2
	RFID Assignment	Yes
Video	Recording Storage	64GB
	Recording Time	Up to 12 hours
	Battery On Standby	48 hours
	Battery Type	Lithium-Polymer
	Horizontal Field of View	120 degrees
	Pre-Record	Configurable up to 2 minutes
	Peer-Assisted Recording	Within 32.8ft (10m) of another device
	Holster Sensor	Yes
Security	Storage Media	Internal solid state
	Access	Sealed unit, no user access to storage media or battery
WiFi	WiFi Specification	802.11 ac/a/b/g/n (2.4GHz &5GHz)
	WiFi Security	WPA2-PSK, WPA2-EAP-PEAP (user pass), WPA2-EAP-TLS (certificate)
	WiFi Streaming	RTSP, 640x268p (SD) 700kbps, 64kps audio with digest or open authentication
Certification	EMC	Yes
	FCC	Yes
	CE	Yes
	Environmental	IP67 weather rating

FIXING AND MOUNT OPTIONS Ⓕ

QR	Quick Release Fixing	Suitable for attaching to the quick release fixing options
KF	Klick Fast Harness	Suitable for directly attaching to the klick fast fixing options
VF	Close-Fit Mount	Suitable for attaching to the close fit mount options
ALIG	Alligator Clip	Comes with a factory fitted alligator clip

CAMERA DOCKS

For downloading of video and rapid charging of body-worn cameras.

Model Name Part Number	VT100 1-Port Dock VT-100-SOLO	VT100 14-Port Dock VT-100-DOCK14[1]	VB400 1-Port Dock VB-400-DOCK-SOLO	VB400 14-Port Dock VB-400-DOCK14[2]
Dimensions	90mm (W) x 75mm (H) x 40mm (D)	200mm (W) x 38mm (H) x 436mm (D)	90mm (W) x 75mm (H) x 40mm (D)	200mm (W) x 38mm (H) x 436mm (D)
Weight	244g	2.2kg	244g	2.2kg
Scalability	Up to four 1-Port Docks can be connected to a DockController	Multiple docking stations can be connected to a single PC or DockController	Up to four 1-Port Docks can be connected to a DockController	Multiple docking stations can be connected to a single PC or DockController
Charging	Up to five hours from a fully flat battery	Up to five hours from a fully flat battery	Up to eight hours from a fully flat battery	Up to eight hours from a fully flat battery
Connection	Single USB to PC	Single USB to PC or DockController, and a mains adaptor for power	Single USB to PC	Single USB to PC or DockController, and a mains adaptor for power
Power Requirement	5V USB	12V/5A PSU, input 100-240V (PSU supplied)	5V USB	12V/5A PSU, input 100-240V (PSU supplied)

[1] Part number varies based on power outlets: VT-100-DOCK14/US, VT-100-DOCK14/UK, VT-100-DOCK14/EU, VT-100-DOCK14/ROW.
[2] Part number varies based on power outlets: VB-400-DOCK14/US, VB-400-DOCK14/UK, VB-400-DOCK14/EU, VB-400-DOCK14/ROW.

VIDEO INFRASTRUCTURE

Whether you need a couple of cameras to monitor a storefront or thousands of cameras to secure a large campus, using a complete Avigilon solution helps take the risk out of deployment and maintenance. Avigilon Network Video Recorders and appliances are pre-configured for enhanced system performance and to save you time during deployment.

NETWORK VIDEO RECORDERS (NVRS)

All models come with high-performance recording technology, a three-year Avigilon warranty with dedicated support and added features for your security needs.

Model Name / Part Number		NVR Workstation NVR4-WKS-○TB		NVR Value NVR4-VAL-○TB				NVR Standard HD-NVR4-STD-○TB				NVR Premium HD-NVR4-PRM-○TB				
Storage	Total Capacity ○	4 TB	8 TB	6 TB	12 TB	16 TB	24 TB	16 TB	24 TB	32 TB	48 TB	64 TB	96 TB	128 TB	157 TB	192 TB
	Configuration	1 x 3.5" HDD		4 x 3.5" HDD		3 x 3.5" HDD	4 x 3.5" HDD	6 x 3.5" HDD	8 x 3.5" HDD	6 x 3.5" HDD	8 x 3.5" HDD	18 x 3.5" HDD	14 x 3.5" HDD	18 x 3.5" HDD		
	Redundancy	–		RAID 5				RAID 6								RAID 60
	Video Data (number of hot-swappable HDDs)	1		4		3	4	6	8	6	8	18	14	18		
OS Volume	Configuration	1 x M.2 SSD		1 x Virtual Disk				2 x M.2 SSD								
	Redundancy	–		RAID 5				RAID 1								
Network Interface		2 x 1 GbE		2 x 1 GbE, 2 x 10 GbE (optional)				4 x 1 GbE, 2 x 10 GbE (optional)				2 x 1 GbE, 2 x 10 GbE				
Max. Recording Rate	1 GbE	120 Mbps		300 Mbps				Up to 700 Mbps (max. 250 Mbps per connection)				600 Mbps				
	10 GbE [1]	–		–				–				Up to 1500 Mbps (max. 1250 Mbps per connection)				
Avigilon Appearance Search™ Technology	Requirements	–		ACC™ Enterprise license, Analytics Kit				ACC Enterprise license								
	Number of Supported Avigilon Analytics-Enabled Cameras	–		35				80				100				
Form Factor		Small Form Factor		1U rack mount				2U rack mount								
Redundant Power Supply		–		Optional								Included				
Local Viewing		mDP/DP/HDMI		No												

[1] Optional for the NVR Value and NVR Standard.

ACC ES RECORDERS AND APPLIANCES

Designed to keep video analytics and storage at the edge of the network to help lower bandwidth requirements for monitoring remote sites and decrease your system's total cost of ownership.

Model Name Part Number	ACC ES HD Recorder VMA-RPO-4P ©		ACC ES Analytics Appliance VMA-RPA-4P ©		ACC ES 8-Port Appliance VMA-ENVR1-8P ©	
Storage Capacity ©	❷ TB	❹ TB	❷ TB	❹ TB	❹ TB	❽ TB
Number of Channels Included[1]	4		6		8	
Max. Recording Rate	80 Mbps				120 Mbps	
Analytics Support	No		Yes[2]		No	
Form Factor	Small form factor, optional rack mount					
Embedded Network Switch	4 ports				8 ports	

[1] More channels can be added.
[2] Supports Avigilon cameras with built-in video analytics.

HD VIDEO APPLIANCES

All-in-one solutions designed to reduce the cost and complexity of video security by simplifying deployment and maintenance.

Model Name Part Number		HD Video Appliance VMA-AS3-8P ©			HD Video Appliance Pro VMA-AS3-16P ©			VMA-AS3-24P ©		
Storage	Total Capacity ©	❷ TB	❹ TB	❽ TB	❻ TB	❾ TB	⑫ TB	⑫ TB	⑱ TB	㉔ TB
	Configuration	1 x 3.5" HDD			4 x 3.5" HDD					
	Redundancy	None			RAID 5					
OS Drive		1 x SSD								
Max. Recording Rate		Up to 100 Mbps			Up to 300 Mbps					
Local Monitor Output Support		2								
Embedded Network Switch		8 ports			16 ports			24 ports		

AVIGILON AI APPLIANCE

Adds patented self-learning video analytics and Avigilon Appearance Search™ technology to almost any IP camera, when connected to ACC software.

Model Name Part Number	AI Appliance VMA-AIA1-CG1	VMA-AIA1-CG2
Number of Channels Included	30	60
Form Factor	2U rack mount	
Redundancy	Optional redundant PSU	
Local Monitor Output Support	No	
Embedded Network Switch	No	

REMOTE MONITORING WORKSTATIONS

An easy way to add high-resolution monitoring stations to existing systems. Select either a two- or four-monitor workstation, pre-loaded with ACC software.

Model Name Part Number	2-Monitor RM5-WKS-2MN	4-Monitor RM5-WKS-4MN
Max. Resolution	8 MP (4K)	
Number of Supported Streams	72	144
Form Factor	Small Form Factor	
Number of Supported Displays	2 x mDP/DP/HMDI	4 x mDP/DP/HMDI
Storage for Exports	500 GB	

AVIGILON VIDEO ARCHIVE

Cost-effective storage option that provides a path for expanding video archives incrementally over time, delivering exceptional reliability with near-zero downtime.

Model Name Part Number	AVA-HED1-●TB[1]			Avigilon Video Archive	AVA-EXP1-●TB[1]	
Storage Capacity ●	225 TB	488 TB	751 TB	263 TB	526 TB	789 TB
Form Factor	5U					
Max. Recording Rate	Can support up to 4 Avigilon NVRs					
Redundancy	Erasure coding					
Connectivity	iSCSI					

[1] Head units house the controllers that connect directly with up to 4 NVRs. Expansion units need to be installed in the same rack and connected to Head units to expand the capacity to 1.5PB.

VIDEO MANAGEMENT SOFTWARE

Whether you're monitoring video from fixed cameras or your suite of body-worn cameras, our video management solutions provide the control and AI-enabled tools to help ensure critical events do not go unnoticed.

ACC 7 SOFTWARE

Powerful software doesn't have to be complicated. ACC software leverages AI technology to give you control over your video security and focus your attention on what matters most.

Model Name	Core	Standard	Enterprise
Cameras/Server	24	75	>300*
Servers/Site	1	1	>100*
Client Connections per Server	2	10	Unlimited
Rule Triggers	0	51	Unlimited
Avigilon Presence Detector™ Event Trigger	No	Yes	
Self-Learning Video Analytics Event Configuration	No	Yes	
ACM™ Identity Verification	No	Yes	
ACM Identity Search	No	Yes	
ACM Remote Door Access Grants	No	Yes	
Focus of Attention Interface	No		Yes
AI Appliance Support	No		Yes
H4 Pro Camera Support	No		Yes
Alarm Search	No		Yes
Avigilon Appearance Search Technology	No		Yes
License Plate Event Search	No		Yes
Blurred Export	No		Yes
Failover Connections	No		Yes

Supports Avigilon fixed cameras and sensors as well as other ONVIF-compliant devices.

STANDARD FEATURES

- Automatic device discovery
- Support for third-party ONVIF® compliant cameras and encoders
- Support for H.265, H.264, MPEG4, MJPEG and JPEG2000 video compression
- ACC Mobile application
- Recording schedules
- Light and dark user interface themes to suit different viewing environments
- Video analytics overlays
- UMD timeline filtering with Skip Play
- Intelligent Motion, thumbnail and event search
- Two-factor authentication
- Two-person authenticated recorded video viewing

*Avigilon has tested up to the number indicated, however no limits are imposed by licensing. Actual limits will depend on the hardware environment.
ONVIF is a trademark of ONVIF, Inc.

VIDEOMANAGER SOFTWARE

Browser-based system for management of users and devices as well as the managing, storing and sharing of digital evidence.

Workflow Control	Granular Permissions	Users can only access the parts of the VideoManager interface which are relevant to their workflow.
	Granular Sharing	Incidents and videos can be automatically or manually shared between users and groups on VideoManager. Instances can be shared with workers who are not on VideoManager, using time-sensitive links or exports.
	Permissions Overview	Administrators can see permissions associated with a user, and how they got those permissions.
	Priviledge Escalation	Users can temporarily elevate their priviledges for a limited time, in order to perform certain actions on VideoManager.
	Deletion Policies	Configure how long footage is kept on VideoManager before it is deleted.
Security	Comprehensive Audit Trail	A comprehensive audit log of every action performed in the system is created. Users can create and download audit logs to view these actions if necessary.
	Access Control Keys	Without a device's access control key, undownloaded footage on a device is inaccessible.
	File Space Encryption	Footage, report and export filespaces are automatically encrypted for extra security.
Scalability	Incident Bulk Edit	Large numbers of incidents can be instantaneously deleted and added to incident collections.
	Device Bulk Edit	Large numbers of devices can be instantaneously assigned and upgraded.
	User Groups	Put multiple users in a group for sharing and management purposes. Groups can be supervised by individual users, or other groups.
	Reports Creation	Download reports detailing various aspects of VideoManager acitivity e.g. when devices were docked and undocked.
	Live Statistics	View real-time statistics with information about how VideoManager is being used.
Technical Specifications	Compatible Server Platforms	Windows Server 2016 Essentials, Standard and Datacenter, Windows Server 2012 R2 Essentials, Standard and Datacenter, Windows Server 2012 Essentials, Standard and Datacenter, Windows 10 Pro and Enterprise and Windows 8.1 Pro and Enterprise
	Compatible Client Browsers	Microsoft Internet Explorer 11 (Windows 7/8.1/10), Microsoft Edge 14+ (Windows 10), Firefox 47+ (Windows 10), Chrome 48+ (Windows 7/8.1/10, MAC OS X v10.10)

Supports VideoTag and VideoBadge body-worn cameras.

STANDARD FEATURES

Connectivity

- Integrates with ACC video management software.

- Can be enabled as a Central VideoManager, to which other instances of VideoManager ("sites") can be connected.

- VT100 and VB400 cameras can stream directly to a cloud service of VideoManager while downloading footage to an on premise instance of VideoManager.

- Connect VideoManager to CommandCentral Vault, for footage storage and correlation with other CommandCentral Suite applications.*

Evidence Preparation

- Group footage and other important media in an incident for ease of view.

- Put multiple incidents in an incident collection for sharing and management purposes.

- Redact footage and images using effects like bluring, pixelation and highlighting. Audio, text and zoom redactions are also available.

- Non-video media (PDFs, MP4s, JPGs), and videos which were not recorded using VT100 or VB400 can be imported to VideoManager and added to incidents.
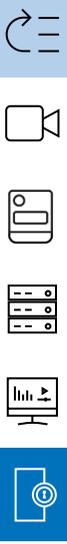
ACCESS CONTROL

The Access Control Manager (ACM) system is a physical access control system for enterprise-class installations, designed to help you focus on securing your people, property and assets, while giving you the flexibility to respond to alerts wherever you are.

It seamlessly integrates with ACC software to provide you with a powerful and unified security solution that helps you proactively monitor and secure your sites.

ACM™ 6 SYSTEM

Edition Part Number	Professional AC-APP-Ⓡ R-PRO-6	Enterprise AC-APP-Ⓡ R-ENT2-6	Enterprise PLUS AC-APP-Ⓡ R-ENT-PLUS-6	Virtual AC-APP-Ⓡ R-VM-6-P
Appliance Type	Small form factor, desktop	1U rack mount chassis		VMware vSphere® ESX(i) 6.5+[1]
Max. Number of Card Readers	16–32	16–400	16–2048	16–2048
Max. Simultaneous Operators	10	20	50	
Max. Identities	75,000	250,000	500,000	
Max. Stored Transactions	75,000,000	150,000,000		
Storage	500 GB (7.2K RPM SATA)	1 TB (7.2K RPM SATA 6 Gbps)	1.3 TB (4 x 480 GB SSD RAID5)	1 TB SSD[1]
Processor	3.7 GHz Intel® Pentium® G5400 (4 MB cache, 2C/4T, 65 W)	3.0 GHz Intel Xeon® E3-1220 v5 (8 MB cache, 4C/4T, Turbo, 80 W)	3.8 GHz Intel Xeon E3-1270 v6 (8 MB cache, 4C/8T, Turbo, 72 W)	3.8 GHz Intel Xeon E3-1270 v6 (8 MB cache, 4C/8T)*
Memory	4 GB (1 x 4 GB) (2.6 GHz DDR4 Non-ECC)	4 GB (1 x 4 GB) (2133 MT/s ECCUDIMM)	32 GB (2 x 16 GB) (2400 MT/s DDR4 UDIMMs)	32 GB[1]
Network Interface	1 Gigabit Ethernet Intel	1 Gigabit Ethernet Broadcom 5720		1 Gigabit Ethernet[1]
Replication	No	Yes		
Hot Standby Auto Failover	No	Yes		
RAID & Hot-Swap Components	No		Yes	No

LICENSE OPTIONS

| Max. Number of Card Readers Supported per License Ⓡ | ⑯ readers
㉜ readers | ⑯ readers
㉜ readers
64 readers
128 readers
256 readers
400 readers | ⑯ readers
256 readers
512 readers
1024 readers
2048 readers | ⑯ readers
㉜ readers
64 readers
128 readers
256 readers
512 readers
1024 readers
2048 readers |

[1] System recommendations.

STANDARD FEATURES

- Quick online license management
- Email notification
- Event monitoring and schedules
- Identity search, import/export and management
- Panel and door status
- Preconfigured and custom reports
- Firmware updates
- OSDP In/Out reader support
- Backup and restore
- PoE compatible Mercury hardware
- Migration from ACM Embedded Controller
- Mercury and HID hardware interoperability
- Software integrations (video, intrusion, wireless locks and visitor management)
- Support for Mercury Security large encoded card formats
- Biometric integrations
- Graphic maps and muster dashboard
- Photo import/export
- Alarm management and acknowledgment
- Badging
- Multi-language
- System configuration templates for doors, wiring, input, output and readers, to enable quick Batch Add setup
- Mercury Security panel certificates for added security

KNOW WHAT IS HAPPENING.
ACT WITH CERTAINTY.

For more information, visit **www.motorolasolutions.com/videosecurityanalytics**

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