



TELECAMERA H5A MODULARE

3 MP 5 MP

LA TELECAMERA DI AVIGILON PIÙ PICCOLA PER GLI AMBIENTI PIÙ DIFFICILI DA MONITORARE

La telecamera modulare H5A di Avigilon è pensata per aree ristrette o che richiedono una soluzione di monitoraggio discreta e poco ingombrante, come gli sportelli bancomat, le sale interrogatori della polizia, le casse dei negozi, le entrate degli edifici ecc. I moduli di registrazione intercambiabili di questa telecamera sono facilmente orientabili per acquisire le immagini da più angolazioni e ottenere una visione ottimale delle persone o della scena da analizzare. La telecamera dispone di video analisi di ultima generazione per il rilevamento e il riconoscimento avanzato di oggetti, della funzione Unusual Activity Detection e supporta le tecnologie Face Recognition e Avigilon Appearance Search™, che riducono i tempi di risposta in caso di eventi critici.



DESIGN PERSONALIZZABILE

Il design modulare offre la possibilità di combinare dispositivi di dimensioni e risoluzioni diverse in base alle esigenze di copertura del sito.



VIDEO ANALISI DI NUOVA GENERAZIONE

Rileva un maggior numero di oggetti grazie a classificazioni più ampie e offre un grado di precisione più alto per intervenire più rapidamente, anche in ambienti particolarmente affollati.



CONFORME ALLO STANDARD FIPS 140-2

Maggiore sicurezza dei dati grazie alla compatibilità con la crittografia conforme agli standard FIPS¹.



INSTALLAZIONE FLESSIBILE

Sono disponibili cavi rimovibili di lunghezza variabile che contribuiscono a ridurre i tempi di installazione e consentono un posizionamento versatile dei moduli di registrazione delle immagini.



COMPATIBILE ONVIF®

La conformità nativa ai profili S, T e G ONVIF consente di integrarla facilmente in infrastrutture ONVIF esistenti.



WIDE DYNAMIC RANGE

Immagini dettagliate e di alta qualità anche in scenari con forte controluce.



RESISTENZA ALL'ACQUA E ALLA POLVERE²

Grado di protezione IP66 da polvere e acqua.



COLLEGAMENTO IMPECCABILE CON AVIGILON CONTROL CENTER (ACC)

Si connette con il software ACC™ per fornirti sempre le informazioni di cui hai bisogno per intervenire.

Per ulteriori informazioni, visita il sito avigilon.com/h5a-modular



MOTOROLA SOLUTIONS

AVIGILON™

¹ Possibilità di acquistare una licenza per telecamere FIPS di livello 1 o la microSD CRYPT, il dispositivo hardware di crittografia e gestione delle chiavi per il supporto e la certificazione FIPS di livello 3.

² Disponibile solo per i moduli di registrazione delle immagini Micro Bullet.

© 2022, Avigilon Corporation. Tutti i diritti riservati. AVIGILON, il logo AVIGILON, AVIGILON APPEARANCE SEARCH e HDSM SmartCodec sono marchi commerciali di Avigilon Corporation. ONVIF è un marchio commerciale di Onvif, Inc. MOTOROLA, MOTO, MOTOROLA SOLUTIONS e il logo stilizzato M sono marchi o marchi registrati di Motorola Trademark Holdings, LLC e sono utilizzati su licenza. Tutti gli altri marchi commerciali sono di proprietà dei rispettivi titolari. 02-2022 [EV03]

SPECIFICATIONS - MAIN UNIT

IMAGE CONTROL AND PERFORMANCE		
Image Compression Method		H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG
Bandwidth Management		HDSM SmartCodec technology; Idle scene mode
Streaming		Multi-stream H.264, Multi-stream H.265, Motion JPEG
Max Image Rate (Based on combined resolution of one or two imagers)	High Frame Rate: (50 Hz/60 Hz)	(≤ 6 MP) 25 fps/30 fps (8 MP) 25 fps/24 fps (10 MP) 20 fps/24 fps
	Full Feature Mode: (50 Hz/60 Hz)	(≤ 5 MP) 25 fps/30 fps (6 MP) 25 fps/24 fps (8 MP) 20 fps/20 fps (10 MP) 12.5 fps/15 fps
Dynamic Range		Up to 120 dB
Motion Detection		Pixel motion; Selectable sensitivity and threshold. Classified object detection
Tamper Detection		Yes
Electronic Shutter Control		Automatic, Manual (1/7.5 to 1/8000 sec)
Flicker Control		60 Hz, 50 Hz
White Balance		Automatic, Manual
Backlight Compensation		Adjustable
Privacy Zones		Up to 64 zones

AUXILIARY	
Audio Compression Method	G.711 PCM 8 kHz, Opus
Audio Input/Output	Line level input and output
External I/O Terminals	Alarm In, Alarm Out

NETWORK	
Network	100BASE-TX
Cabling Type	CAT5E cabling for PoE Coaxial cabling for imager modules
Connector	RJ-45 for PoE HD BNC for imager modules
ONVIF	ONVIF compliance Profile S, Profile T, and Profile G (www.onvif.org)
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, FIPS 140-2 L1 (with optional camera license), FIPS 140-2 L3 (with optional accessory)
Protocols	IPv4, IPv6, 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
Device Management Protocols	SNMP v2c, SNMP v3

PERIPHERALS	
Onboard Storage	2 x microSD/microSDHC/microSDXC slots - video speed class card required. Class V10 or better recommended. One of the two SD card slots is available for onboard storage.

MECHANICAL		
Dimensions (LxWxH)	Body Only	105 mm x 123 mm x 34 mm; 4.13 " x 4.84 " x 1.34 "
	Including HD BNC Connector	114 mm x 123 mm x 34 mm; 4.50 " x 4.84 " x 1.34 "
Weight		0.517 kg (1.14 lbs)

MECHANICAL	
Body	Aluminum
Housing	Stainless steel (bracket)
Finish	Black

ELECTRICAL	
Power Consumption	13 W Max
Power Source	VDC: 12 V +/-10%, 11.5 W min PoE: IEEE 802.3af Class 3 compliant
Power Connector	2-pin terminal block
RTC Battery Backup	3V manganese lithium

ENVIRONMENTAL	
Operating Temperature	-10 °C to +60 °C (14 °F to 140 °F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)
Humidity	0 - 100% RH

CERTIFICATIONS	
Certifications/Directives	UL, cUL, CE, UKCA, ROHS, RCM
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1
Electromagnetic Emissions	FCC Part 15 Subpart B Class A, ICES-003 Class A, EN 55032 Class A, EN 61000-3-2, EN 61000-3-3
Electromagnetic Immunity	EN 55035, EN 61000-6-1

SPECIFICATIONS - IMAGER

IMAGE PERFORMANCE		3.0 MP	5.0 MP
Image Sensor		1/2.7 " Progressive Scan	1/2.7 " Progressive Scan
Imaging Area (H x V)		5.4 mm x 3.9 mm; 0.213 " x 0.154 "	
Max Image Rate		(50 Hz/60 Hz): 25 fps/30 fps	
Streaming Resolutions	Primary Stream:	Right Angle: 2128 x 1368; 1920 x 1080 Micro Bullet: 2128 x 1536; 1920 x 1080	Micro Bullet: 2688 x 1944; 2128 x 1536; 2560 x 1440; 1920 x 1080
	Secondary Stream:	Right Angle: 1248 x 800; 832 x 536; 672 x 432; 528 x 336; 400 x 256; 1280 x 720; 720 x 480; 640 x 360; 512 x 288; 384 x 216 Micro Bullet: 1248 x 904; 832 x 600; 672 x 480; 528 x 384; 400 x 288; 1280 x 720; 720 x 480; 640 x 360; 512 x 288; 384 x 216	Micro Bullet: 1248 x 904; 832 x 600; 672 x 480; 528 x 384; 400 x 288; 1280 x 720; 720 x 480; 640 x 360; 512 x 288; 384 x 216
Dynamic Range	WDR Off:	Up to 82 dB	
	WDR On:	Up to 120 dB	
3D Noise Reduction Filter		Yes	

LENS	RIGHT ANGLE	MICRO BULLET
Lens	3.7 mm fixed pinhole aperture	2.8 mm fixed
Minimum Illumination	0.1 lux	
Horizontal Angle of View (HFOV)	92 °	110 °
Vertical Angle of View (VFOV)	53 °	80 °
Max Aperture	F2.5	F2.0
Control	Fixed	

IMAGE CONTROL	
Electronic Shutter Control	Automatic, Manual (1/7.5 to 1/8000 sec)

IMAGE CONTROL	
Iris Control	Fixed
Day/Night Control	Automatic, Manual
Flicker Control	60 Hz, 50 Hz
White Balance	Automatic, Manual
Backlight Compensation	Adjustable
Privacy Zones	Up to 64 zones

CONNECTOR	
Cabling Type	Coaxial cable
Connector	HD BNC

MECHANICAL		RIGHT ANGLE	MICRO BULLET
Dimensions (LxWxH)	Imager Module Body Only	45 mm x 25 mm x 20 mm; 1.77 " x 0.98 " x 0.79 "	42 mm x 30 mm diameter; 1.65 " x 1.18 " diameter
	Including HD BNC Connector	54 mm x 25 mm x 20 mm; 2.13 " x 0.98 " x 0.79 "	50 mm x 30 mm diameter; 1.97 " x 1.18 " diameter
Weight		0.028 kg (0.06 lbs)	0.043 kg (0.09 lbs)
Body		Aluminum	
Housing		Plastic	
Finish		Black	

ENVIRONMENTAL		RIGHT ANGLE	MICRO BULLET
Operating Temperature		-30 °C to +60 °C (-22 °F to 140 °F)	
Storage Temperature		-10 °C to +70 °C (14 °F to 158 °F)	
Humidity		0 - 100% RH	
Environmental		N/A	IP66 Rating

ANALYTICS SPECIFICATIONS

SUPPORTED RULE BASED VIDEO ANALYTIC EVENTS (PER IMAGER)

Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type stays within the region of interest for an extended amount of time.
Object 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	This 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 left 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	The event is triggered when the scene unexpectedly changes.

SUPPORTED CLASSIFIED OBJECT TYPES

Object Types in Outdoor Mode	Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus Person
Object Types in Indoor Mode	Person

TEACH BY EXAMPLE

Teach By Example	Yes, when used with Avigilon Control Center™
------------------	--

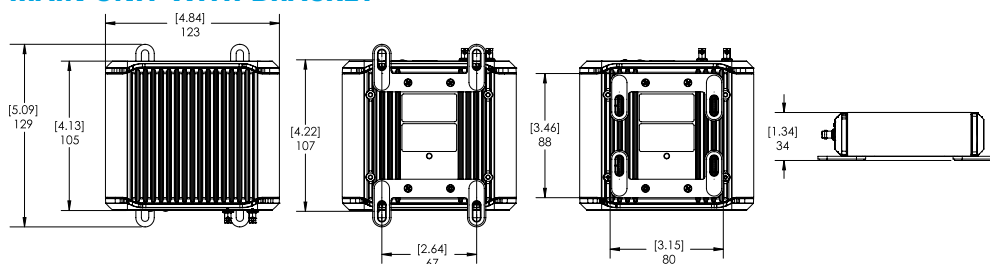
AVIGILON CONTROL CENTER (ACC) VERSIONS SUPPORTED FEATURES*

ACC Version 6.14.26 or higher	All supported analytic events with two types of classified objects: person or vehicle. Appearance search when paired with appropriate server hardware. H.265 supported.
ACC Version 7.14.6 or higher	All supported analytic events with people and vehicles and all vehicle sub-types as classified objects. Appearance search when paired with appropriate server hardware. H.265 supported.

*Indoor Close-up analytic mode is only supported on ACC 7.14.12 and later. Each main unit consumes only one ACC channel license whether one or two imagers are connected.

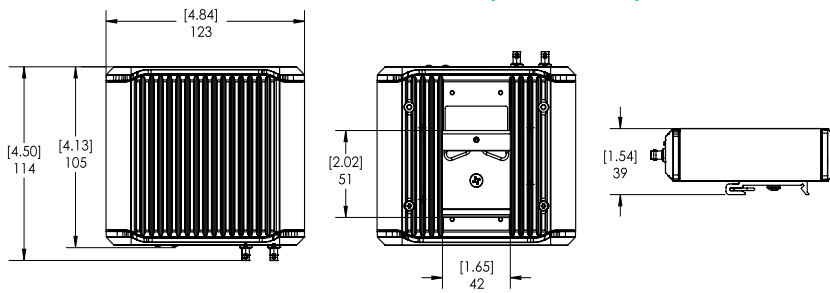
OUTLINE DIMENSIONS

MAIN UNIT WITH BRACKET

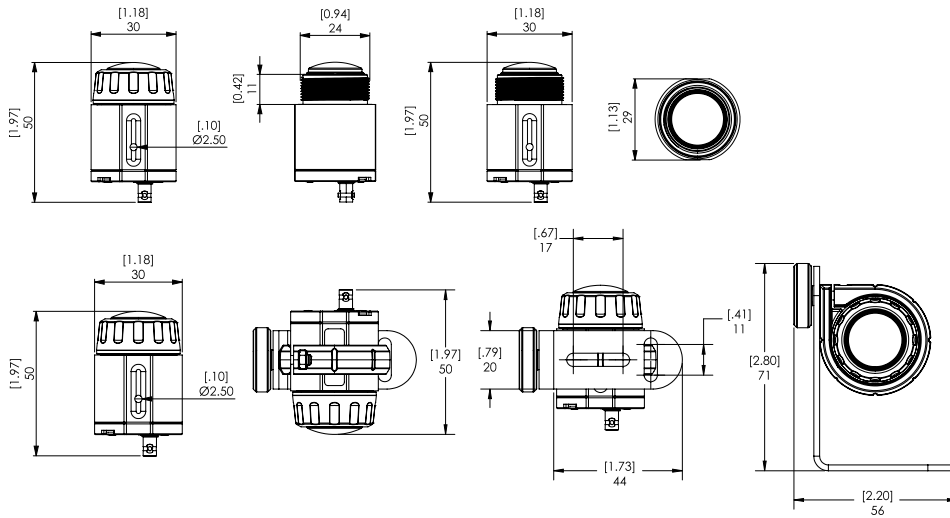


[X.X]	INCHES
X	MM

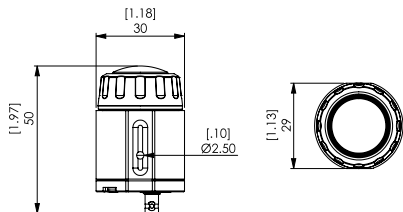
MAIN UNIT WITH DIN RAIL MOUNT (OPTIONAL)



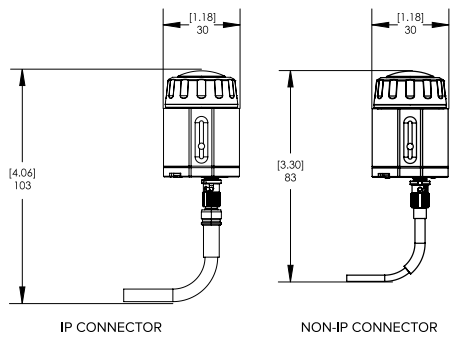
MICRO BULLET IMAGER WITH BRACKET



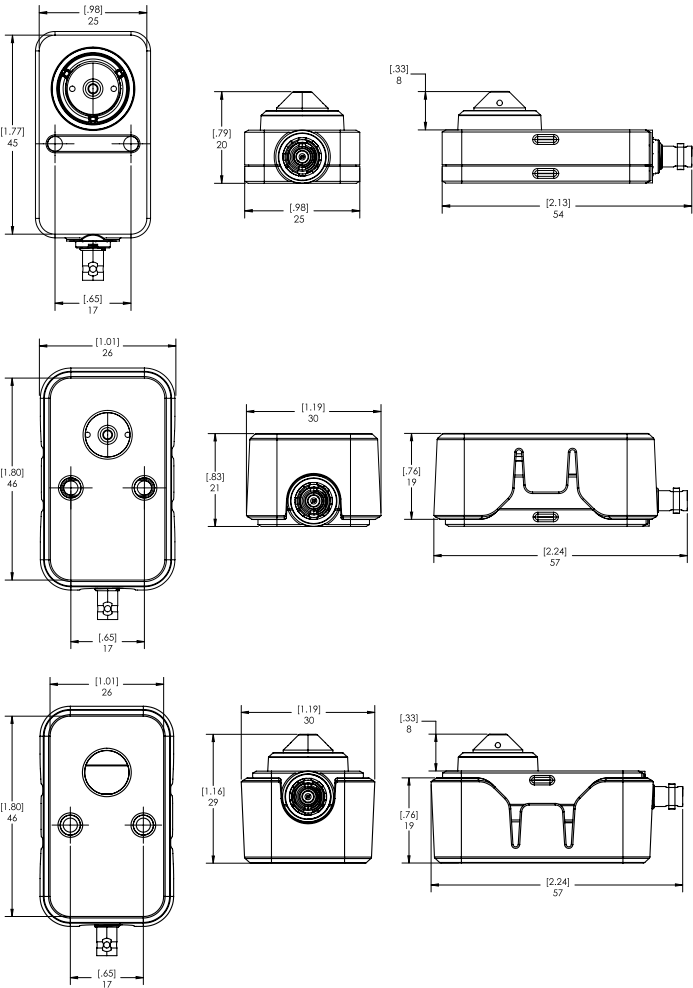
MICRO BULLET IMAGER WITH SIDE RAIL MOUNT



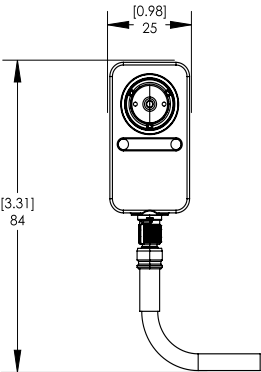
MICRO BULLET IMAGER WITH MIN. CABLE LENGTH



RIGHT ANGLE IMAGER WITH BRACKET



RIGHT ANGLE IMAGER WITH MIN. CABLE LENGTH



ORDERING INFORMATION

The variety of mounting options for the H5A Modular provides maximum flexibility to combine different imager modules and cable configurations.

MAIN UNIT	IMAGER MODULES	REQUIRED ACCESSORIES
 H5A Modular Camera Main Unit (H5A-MOD-2P)	Order up to two imager modules per Main Unit, any combination of the following:  H5A Right Angle Imager (3C-H5MOD-RP4)  H5A Micro Bullet Imager (xC-H5MOD-MB2)	Order one cable for each imager module: • CBL2M-1001 (2 m) • CBL5M-1001 (5 m)

IMAGER MODULES

With the modular design of the H5A Modular, either camera module can be connected to the H5A Modular Camera Main Unit for maximum versatility and optimal installation.

	FORM FACTOR	MP	WDR	ANALYTICS	LENS	IP66	HDSM SMARTCODEC	LIGHTCATCHER TECHNOLOGY
3C-H5MOD-RP4	Right Angle	3.0	✓	✓	3.7 mm, Fixed Pinhole		✓	✓
3C-H5MOD-MB2	Micro Bullet	3.0	✓	✓	2.8 mm, Fixed	✓	✓	✓
5C-H5MOD-MB2	Micro Bullet	5.0	✓	✓	2.8 mm, Fixed	✓	✓	✓

CAMERA MAIN UNIT

DISPLAY PART NUMBER	DESCRIPTION
H5A-MOD-2P	H5A Modular Camera Main Unit

CAMERA IMAGER

DISPLAY PART NUMBER	DESCRIPTION
3C-H5MOD-RP4	3 MP Pinhole Right Angle Imager (H5A Modular)
3C-H5MOD-MB2	3 MP Fixed Lens Micro Bullet Imager (H5A Modular)
5C-H5MOD-MB2	5 MP Fixed Lens Micro Bullet Imager (H5A Modular)

CAMERA CABLES

DISPLAY PART NUMBER	DESCRIPTION
CBL2M-1001	2 m (6 ft) HD BNC Cable for H5A Modular Camera Imager
CBL5M-1001	5 m (16 ft) HD BNC Cable for H5A Modular Camera Imager

OPTIONAL MOUNTING ADAPTERS

DISPLAY PART NUMBER	DESCRIPTION
BRKTMD-1001	Din rail mount for H5A Modular Camera Main Unit
BRKTMD-1011	Replacement L Bracket for Micro Bullet Imager H5A Modular

DISPLAY PART NUMBER	DESCRIPTION
BRKTMD-1021	Replacement Flat Bracket for Right Angle Imager H5A Modular
BRKTMD-1031	Replacement Trimming Bracket for Micro Bullet Imager H5A Modular

OPTIONAL LICENSES AND ACCESSORIES*

DISPLAY PART NUMBER	DESCRIPTION
CAM-FIPS	Camera license to enable FIPS Level 1 cryptographic mode on any H5A camera
CAM-FIPS-CRYPT-R-L3	MSI CRYPT-R SD with camera license to enable FIPS Level 3 cryptographic mode on H5A cameras

*Only one license required per main unit whether one or two imagers are connected.

SUPPORT

Learn more and find additional documentation at [avigilon.com](https://www.avigilon.com) or email sales@avigilon.com for specific product support.



Mar 2022 | Rev 5

© 2022, Motorola Solutions, Inc. All rights reserved. MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. AVIGILON, the AVIGILON logo, AVIGILON CONTROL CENTER, ACC, HDSM SmartCodec and LIGHTCATCHER are trademarks of Avigilon Corporation. AVIGILON, the AVIGILON logo, AVIGILON CONTROL CENTER, ACC, HDSM SmartCodec and LIGHTCATCHER are trademarks of Avigilon Corporation. The absence of the symbols ™ and ® in proximity to each trademark in this document or at all is not a disclaimer of ownership of the related trademark. All other trademarks are the property of their respective owners.