

8 MP

12 MP

AVIGILON[™]

Universal H6A Fisheye

One camera, 360° coverage

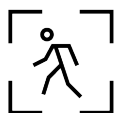


See your entire space with fewer devices. The H6A Fisheye's 360-degree views and analytics help you spot incidents fast and keep your facilities safe. One camera works seamlessly with on-premise or cloud setups, delivering visual awareness while reducing hardware and support needs.



360° & 180° Panoramic views

See more across expansive environments with a wide field of view. This helps eliminate coverage gaps and reduce the total number of cameras required, helping lower installation costs.



Faster incident response

Detect and classify people and vehicles across the entire scene. AI-powered video analytics help your team receive smart alerts and find specific details to help resolve incidents quickly.



Rugged and reliable

Deploy in challenging environments with a durable design featuring IK10 impact and IP66/68 weather ratings. This camera is built for long-term value and includes a warranty of up to 10 years¹.



Spot activity across the room

Keep views of people even when they pass directly beneath the camera. Analytics right under the lens giving a constant view of moving people so you can get the full context of the situation.



Sound-based risk detection

Identify risks using a built-in microphone that can flag sounds like screaming or breaking glass. These alerts help your team check the area and act with more certainty to help keep people safer.



One camera, install anywhere

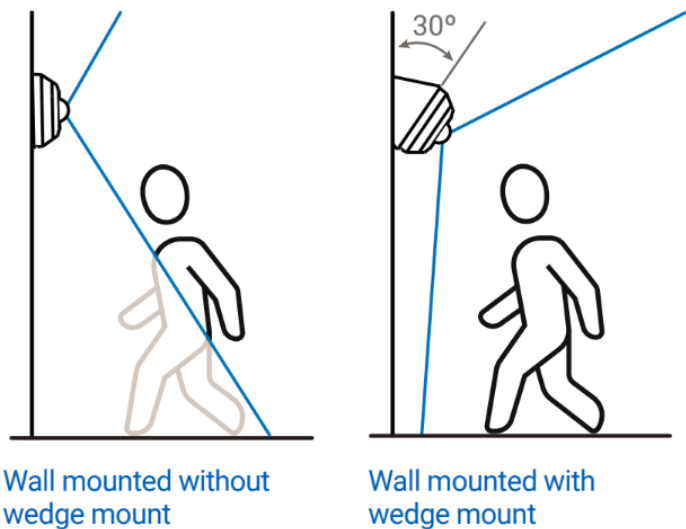
Deploy on-premise or connect directly to the cloud using one versatile camera model. This approach helps simplify inventory while protecting your hardware investment.

¹ Includes up to 10 years of warranty coverage, provided the camera has an active subscription connected to Avigilon Alta from day one.

To learn more, visit the avigilon.com/h6a-fisheye webpage.

Feature Spotlight

The Avigilon Universal H6A Fisheye camera, with its 180° lens and wedge mount, offers a practical and efficient solution for various security needs. It's designed to help teams see more, understand more, and ultimately, do more to protect people and property.

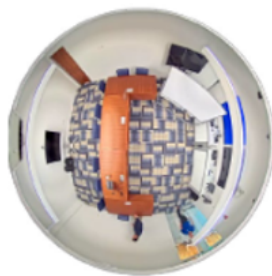


Optimized for wall mounting

The 180° FOV, when paired with the 30° tilt wedge mount, is designed to deliver the best possible image quality for wall-mounted applications. This helps to avoid unnecessary coverage of less critical areas.

Enhanced visibility:

- Capture clear, detailed imagery with your choice of 8 MP or 12 MP resolution.
- Field of view: Horizontal: 188°, Vertical: 104°.
- The 8 MP 180° H6A Fisheye camera maximizes the utility of the rectangular sensor, increasing the visibility of pixels in key areas.



Ceiling mounted



Wall mounted 180°

Note: 12 MP models are capable of either 360° or 180° view using the options within the Alta Video VMS.



Specifications

Note: These specifications apply to Avigilon Universal H6A Fisheye cameras connected to Alta Video cloud VMS deployments. See [Unity H6A Fisheye Camera Series Datasheet](#) for the specifications when connected to Avigilon Unity VMS.

IMAGE PERFORMANCE		8.0 MP	12.0 MP
Image Sensor		1/1.6" progressive scan CMOS	1/1.6" progressive scan CMOS
180° Video Streaming Resolutions	Maximum	3840 x 2160, 15fps, 6Mbps	N/A
	High	3840 x 2160, 15fps, 3Mbps	N/A
	Medium	1920 x 1080, 15fps, 1.5Mbps	N/A
	Low	1280 x 720, 10fps, 750Kbps	N/A
360° Video Streaming Resolutions	Maximum	2048 x 2048, 15fps, 3Mbps	3520 x 3520 15fps @ 6Mbps
	High	2048 x 2048, 15fps, 1.5Mbps	3520 x 3520 15fps @ 3Mbps
	Medium	1280 x 1280, 15fps, 750Kbps	1536 x 1536 15fps @ 1.5Mbps
	Low	720 x 720, 10fps, 400Kbps	720 x 720 10fps @ 750Kbps
Horizontal Angle of View (HFOV)	180°	188°	188°
	360°	182°	182°
Vertical Angle of View (VFOV)	180°	104°	104°
	360°	182°	182°
Dynamic Range	WDR Off:	Up to 83 dB	Up to 83 dB
	WDR On:	Up to 120 dB	Up to 120 dB
3D Noise Reduction Filter		Yes	Yes

LENS AND IR ILLUMINATION		8.0 MP	12.0 MP
Lens	180°	1.74 mm	N/A
	360°	1.4 mm	1.74 mm
IR Illumination Max Distance (high power 850 nm LEDs)		17 m	22 m
Minimum Illumination	With IR	0 lux	0 lux
	Without IR	0.1 lux in monochrome, 0.2 lux in colour mode	0.19 lux in monochrome, 0.38 lux in colour mode
Max Aperture		F2.0	F2.0

IMAGE CONTROL	
Image Compression Method	H.264



IMAGE CONTROL

Streaming	Multi-stream H.264
Tamper Detection	Yes
Electronic Shutter Control	Automatic
Iris Control	Fixed
Day/Night Control	Automatic, Manual
Flicker Control	60 Hz, 50 Hz
White Balance	Automatic
Privacy Zones	Up to 64 zones
Adjustable IR LEDs	Yes

NETWORK

Network	100BASE-TX, RJ45 Connector, CAT5e Cabling
ONVIF	ONVIF compliance Profile S, Profile T, Profile G, and Profile M (www.onvif.org) Note: Camera needs to be Unity mode to access the ONVIF features
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, onboard FIPS-compliant TPM, Signed and encrypted firmware
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv3, ICMP, DHCP, Zeroconf, HSTS, DSCP, FTP
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
Secure Boot	Yes

PERIPHERALS

Onboard Storage	2 x microSD/microSDHC/microSDXC slots – microSD card/s supplied to match the purchased retention period.
-----------------	--

AUXILIARY I/O

Audio Compression Method	Opus, G.711 PCM 8 kHz
Audio Input/Output	Line level I/O and built-in microphone (can be disabled with a hardware switch)
External I/O Terminals	Alarm In, Alarm Out



MECHANICAL		SURFACE MOUNT	IN-CEILING MOUNT
Dimensions (LxWxH)	Camera	145.5 mm x 145.5 mm x 71.3 mm; 5.72" x 5.72" x 2.81"	200.6 mm x 200.6 mm x 18.4 mm; 7.9" x 7.9" x 0.72"
	With Mounting Plate	145.5 mm x 145.5 mm x 71.3 mm; 5.72" x 5.72" x 2.81"	N/A
	With NPT Adapter	158 mm x 158 mm x 112.3 mm; 6.2" x 6.2" x 4.4"	N/A
Weight	Camera	0.832 kg (1.83 lb)	0.907 kg (2.0 lb)
	With Mounting Plate	0.917 kg (2.02 lb)	N/A
	With NPT Adapter	1.15 kg (2.54 lb)	N/A
Max. Ceiling Thickness		N/A	31.75 mm; 1.25"
Dome Bubble		Polycarbonate, clear	N/A
Body		Aluminum	Polycarbonate
Housing		Aluminum	Polycarbonate
Finish		Cast, powder coated, close to RAL 9002	Plastic, injection molded, close to RAL 9002

ELECTRICAL	SURFACE MOUNT	IN-CEILING MOUNT
Power Consumption	With IR: 26 W Without IR: 12 W	12 W
Power Source	VDC: 12V+/-10%, 26 W min PoE: IEEE 802.3af Class 3 PoE+: IEEE 802.3at Class 4	VDC: 12V+/-10%, 12 W min PoE: IEEE 802.3af Class 3
Power Connector	2-pin terminal block	
RTC Battery Backup	3V manganese lithium	
Memory	4 GB RAM, 4 GB Flash	

ENVIRONMENTAL		SURFACE MOUNT	IN-CEILING MOUNT
Operating Temperature		-40°C to +60°C (-40°F to 140°F)	-10°C to +60°C (14°F to 140°F)
IR Illuminator Behavior	PoE	IR illuminator will turn off if the temperature is higher than 55°C (131°F) or below -30°C (-22°F). The illuminator will operate at 33% power if below 10°C (50°F)	
	PoE+	IR illuminator will turn off if the temperature is higher than 55°C (131°F). The illuminator will operate at 66% power if above 30C. The illuminator will operate at 75% power and 66% power, if below 10°C (50°F).	
Storage Temperature		-10°C to +70°C (14°F to 158°F)	
Humidity		0 - 100% non-condensing	0 - 95% non-condensing



CERTIFICATIONS	SURFACE MOUNT	IN-CEILING MOUNT
Certifications/Approvals	UL, cUL, CE, ROHS, RCM, UKCA, KC, BIS, NOM, BSMI	
Safety Standards	UL/CSA/IEC/EN 62368-1 (3rd edition), IEC/EN 62471, IC ICES-003	
Environmental Standards/Ratings	IK10 Impact Rating ¹ , NEMA 4X, IP66 & IP67 Ingress Rating	IP54 Ingress Rating
Electromagnetic Emissions Standards	FCC Title 47 CFR Part 15, SubPart B	
Electromagnetic Immunity Standards	EN 55032, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 55035, EN 61000-6-1, EN IEC 63000	

¹ Outdoor modes only.

Analytics specifications

For information about the analytics available from cameras attached to Alta Video, see <https://docs.avigilon.com/bundle/alta-video-vms/resource/alta-video-vms.pdf>.

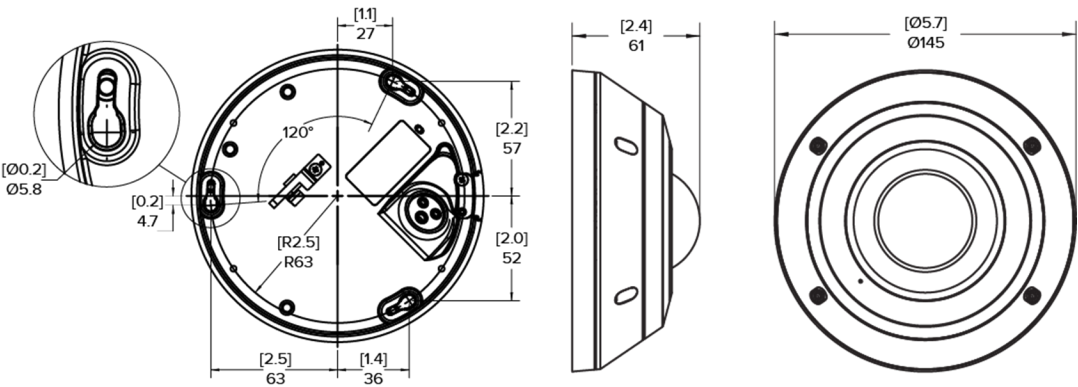
Note: The Avigilon Universal H6A Fisheye camera is not suitable for License Plate Recognition or for Vehicle analytics, and these options are disabled.



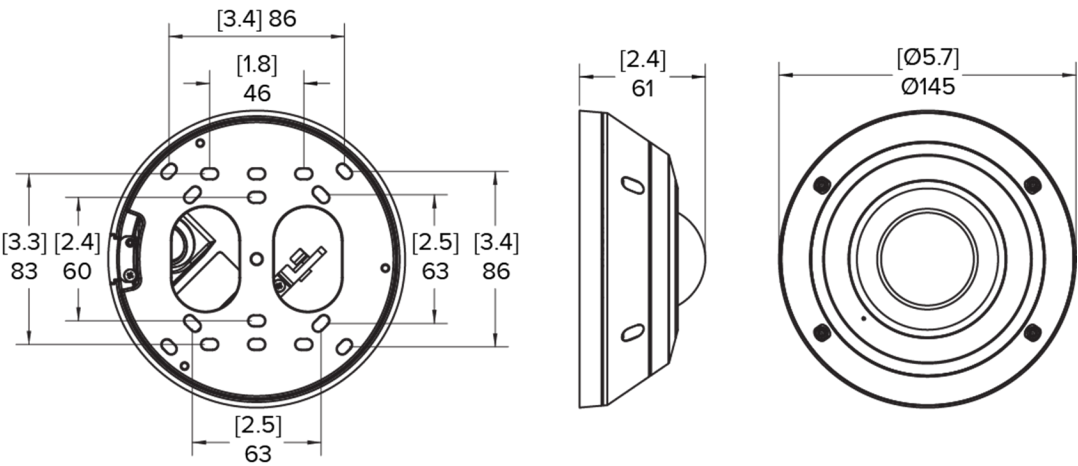
Outline Dimensions

[X.X]	INCHES
X	MM

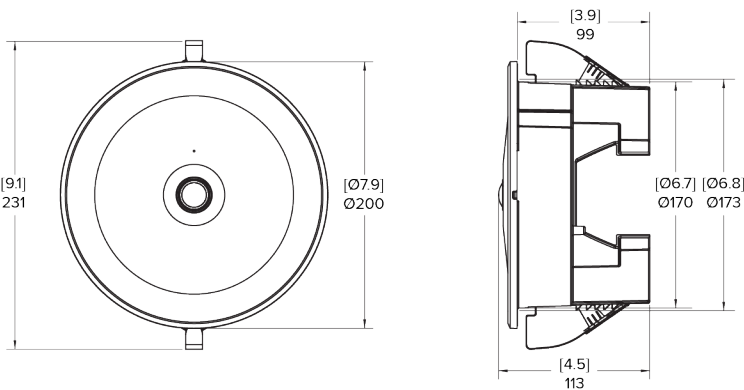
Surface Mount Camera with Mounting Plate



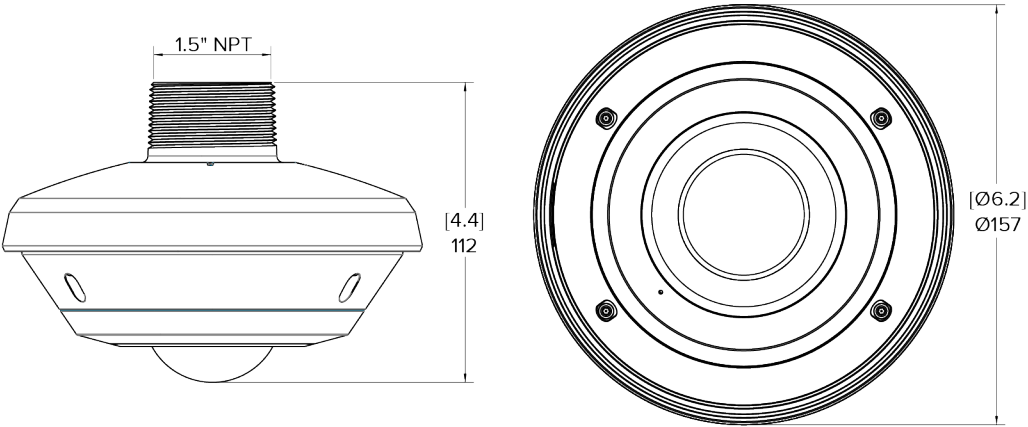
Surface Mount Camera without Mounting Plate



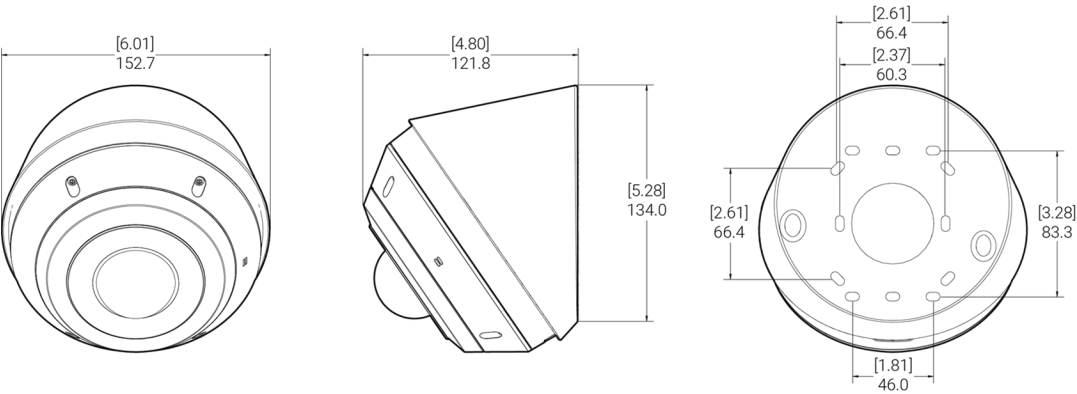
In-Ceiling Mount Camera



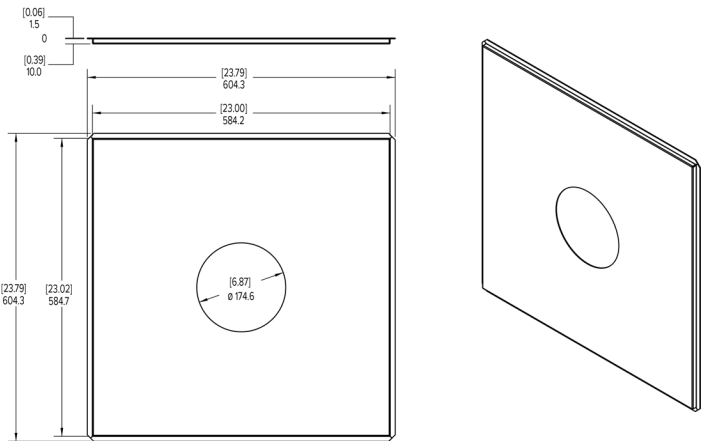
Pendant Mount Camera



Wedge Mount Camera



Metal Ceiling Panel



Ordering Information

Surface Mount Camera

PART NUMBER	MP	WDR	ANALYTICS	LENS	IR	IP66/IP67
8.0C-H6A-FE-360-DO1-IR-UT30	8.0	✓	✓	1.4 mm	✓	✓
8.0C-H6A-FE-180-DO2-IR-UT30	8.0	✓	✓	1.74 mm	✓	✓
12.0C-H6A-FE-360-DO1-IR-UT30	12.0	✓	✓	1.74 mm	✓	✓
12.0C-H6A-FE-360-DO1-IR-UT60	12.0	✓	✓	1.74 mm	✓	✓

In-Ceiling Mount Camera

PART NUMBER	MP	WDR	ANALYTICS	LENS	IR	IP66/IP67
12.0C-H6A-FE-DC1-UT30	12.0	✓	✓	1.4 mm	—	✓

Optional Camera Licenses and Accessories

ACCESSORY PART NUMBER	DESCRIPTION
180-FE-WG-MT	Wedge wall mount for 180 Fisheye
AVO-FE-ACC-KIT	Install Accessory Kit for Fisheye Dome
MSI-FE-DC-KIT	Install Accessory Kit for Fisheye In-Ceiling
H5A-FE-MT-NPTA1	NPT Adapter For Fisheye Dome
MSI-FE-CPNL	Ceiling Panel for Fisheye In-Ceiling
WLMT-1021	Pendant wall mount, compatible with H5A-FE-MT-NPTA1
PLMT-1001	Pole mount, compatible with WLMT-1021
CRNMT-1001	Aluminum corner mounting bracket, compatible with WLMT-1021

Support

For product support, visit avigilon.com/support.

To learn more, visit: avigilon.com/security-cameras/h6a-fisheye. For customer documentation, visit docs.avigilon.com/bundle/alta-video/page/Products/Cameras.htm.



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com

© 2026, Avigilon Corporation. 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. All other trademarks are the property of their respective owners.

20261001-EN

Rev 2