![Avigilon - TRUSTED SECURITY SOLUTIONS™]

H4 Fisheye Camera Line

The new Avigilon™ H4 Fisheye camera line is designed to provide a complete high resolution 360-degree panoramic view of a scene with no blind spots. The H4 Fisheye camera line is a cost-effective, easy-to-install solution designed to provide clear image detail and broad coverage with fewer cameras.

By providing quality imaging and situational awareness, the H4 Fisheye camera is an essential component of the complete Avigilon solution and a valuable addition to any existing surveillance solution.

The H4 Fisheye has a sleek, low-profile design making it suitable for installations where aesthetics are important and allowing it to fit in with architectural features without detracting from the surroundings. Its IK10-rated, vandal-proof and IP66 weather protected housing is ideal for indoor and outdoor environments such as retail stores, theatres, gas stations, manufacturing, healthcare, commercial and educational facilities.

Built on the H4 platform, the H4 Fisheye is available in 6 and 12 megapixel (MP) camera resolutions. It delivers exceptional image quality even in harsh environments and lighting conditions, and keeps bandwidth and storage to a minimum. Its content adaptive IR technology provides effective brightness while maintaining excellent scene illumination in dark environments. The H4 Fisheye also allows users to zoom in, focus and investigate a region of interest (ROI) in live or recorded video while preserving full situational awareness.

Harnessing the strength of Avigilon Control Center (ACC)™ software, High Definition Stream Management (HDSM)™ technology and idle scene mode technology, the H4 Fisheye camera intelligently and efficiently manages video data, lowering bandwidth and storage. The powerful client-side de-warping coupled with virtual PTZ technology allows easy navigation through live or recorded video, enabling security operators to view and track an object of interest from point A to B.

KEY FEATURES

6.0 and 12.0 megapixel resolution models

360 degree field of view fisheye lens

Patented High Definition Stream Management (HDSM)™ Technology

Content adaptive IR technology provides effective illumination through the field of view, while maintaining excellent scene illumination

Integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to a maximum of 10 m (32.8 ft) away

Idle Scene Mode lowers bandwidth and storage usage if there are no motion events detected in the scene

IP66 certification offers total dust ingress protection and protection against high-pressure water jets

Avigilon LightCatcher technology provides exceptional image quality in low light environments

Vandal resistant with IK10 impact rating
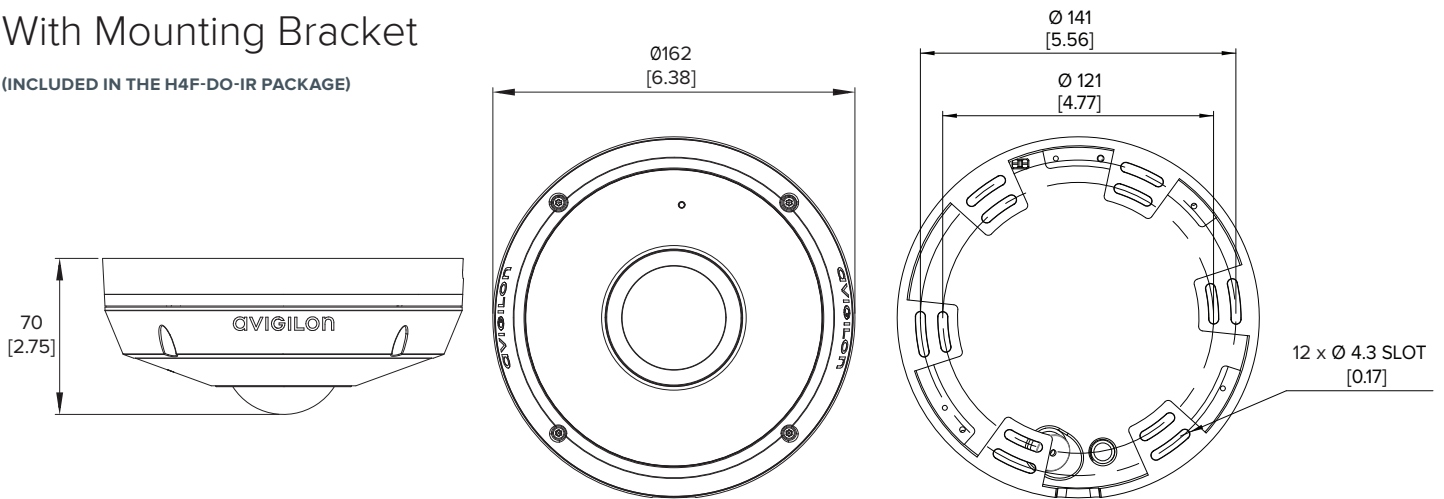
ONVIF Profile S Compliant

Specifications

		6.0 MP	12.0 MP
IMAGE PERFORMANCE	Image Sensor	1/1.8" progressive scan CMOS	1/2.3" progressive scan CMOS
	Active Pixels (H x V)	2000 x 2000	2992 x 2992
	Imaging Area (H x V)	4.8mm x 4.8mm (0.189" x 0.189")	4.6mm x 4.6mm (0.180" x 0.180")
	IR Illumination	up to 10 m (32.8 ft)	
	Minimum Illumination	0.75 lux, 30 IRE in color mode; 0.01 lux, 30 IRE in monochrome mode	
	Image Rate H.264	30 fps	20 fps
	MJPEG	15 fps	10 fps
	Dynamic Range	60 dB	
LENS	Lens	1.45 mm, F/2.2	
	Horizontal Angle of View	180° hemisphere	
	Field of View	360°	
IMAGE CONTROL	Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Motion JPEG	
	Streaming	Multi-stream H.264 and Motion JPEG	
	Bandwidth Management	HDSM; Idle Scene Mode	
	Motion Detection	Pixel motion	
	Electronic Shutter Control	Automatic, Manual (1/7 to 1/8000 sec)	
	Iris Control	Fixed	
	Day/Night Control	Automatic, Manual	
	Flicker Control	50 Hz, 60 Hz	
	White Balance	Automatic, Manual	
	Backlight Compensation	Adjustable	
	Privacy Zones	Up to 64 zones	
NETWORK	Network	100BASE-TX	
	Cabling Type	CAT5	
	Connector	RJ-45	
	ONVIF	ONVIF Profile S compliant	
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication	
	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/HTTPS/TCP, HTTP	
	Device Management Protocols	SNMP v2c, SNMP v3	
PERIPHERALS	Audio Input/Output	Line level I/O and internal microphone	
	Audio Compression Method	G.711 8kHZ	
	External I/O Terminals	Alarm In, Alarm Out	
	Onboard Storage	microSDHC/microSDXC/UHS-1 – minimum class 10 or better recommended	
MECHANICAL	Dimensions (ØxH) Camera	160 mm x 51 mm; 6.2" x 2.0"	
	With bracket	162mm x 70mm; 6.38" x 2.75"	
	With NPT	160mm x 124mm; 6.31" x 4.89"	
	Weight Camera	0.826 kg; 1.77 lbs	
	With bracket	0.94 kg; 2.07 lbs	
	With NPT	1.138 kg; 2.5 lbs	
	Body	Aluminum	
	Housing	Vandal resistant. Surface mount; or pendant mount with NPT adapter.	
	Finish	Powder coat, RAL 9003	
ELECTRICAL	Power Consumption	25.5 W max	
	Power Source	VDC: 12 V +/-10%, 2.125 W min., L.P.S. per IEC 60950-1 PoE: IEEE 802.3af Class 3 PoE+: IEEE 802.3at Class 4	
	Power Connector	DC power input adapter	
ENVIRONMENTAL	Operating Temperature	-40 °C to +55 °C (-40 °F to 131 °F) with 12 V DC or PoE+ power -20 °C to +55 °C (-4 °F to 131 °F) with PoE power	
	IR Illuminator Behavior	IR illuminator power is reduced to 8 m (26.2 ft) when PoE is used. IR illuminator will not turn on if temperature is 45 °C (113 °F) or higher.	
	Storage Temperature	-25°C to +50 °C (-13 °F to 122 °F)	
	Humidity	0 - 95% non-condensing	

CERTIFICATIONS	Certifications/Directives	UL	cUL	CE	ROHS	WEEE	RCM	
	Safety	UL 60950-1		CSA 60950-1		IEC/EN 60950-1		IEC 62471
	Environmental	IK10 Impact Rating (camera housing only)				UL/CSA/IEC 60950-22		IEC 60529 IP66 Rating
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B		IC ICES-003 Class B		EN 55032	EN 61000-6-3	EN 61000-3-2 EN 61000-3-3
	Electromagnetic Immunity	EN 55024				EN 61000-6-1		

Outline Dimensions

Ø 160
[6.31]

Ø 144
[5.67]

54
[2.11]

3 x Ø 3.4 SLOT
[0.14]

[X.X]	INCHES
X	MM
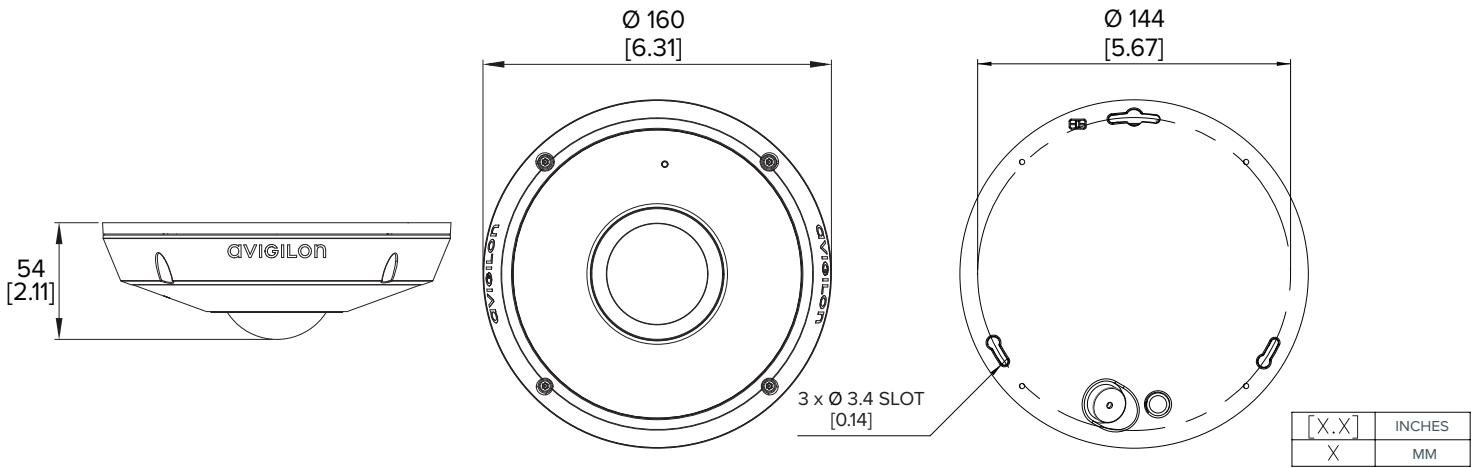
With Mounting Bracket

(INCLUDED IN THE H4F-DO-IR PACKAGE)

Ø162
[6.38]

Ø 141
[5.56]

Ø 121
[4.77]

70
[2.75]

12 x Ø 4.3 SLOT
[0.17]

With NPT Adapter

(H4F-DO-IR + H4F-MT-NPTA1)

Ø160
[6.31]

26
[1.03]

1.5" ⤓ 1.0" NPT
EXTERNAL THREAD

124
[4.89]
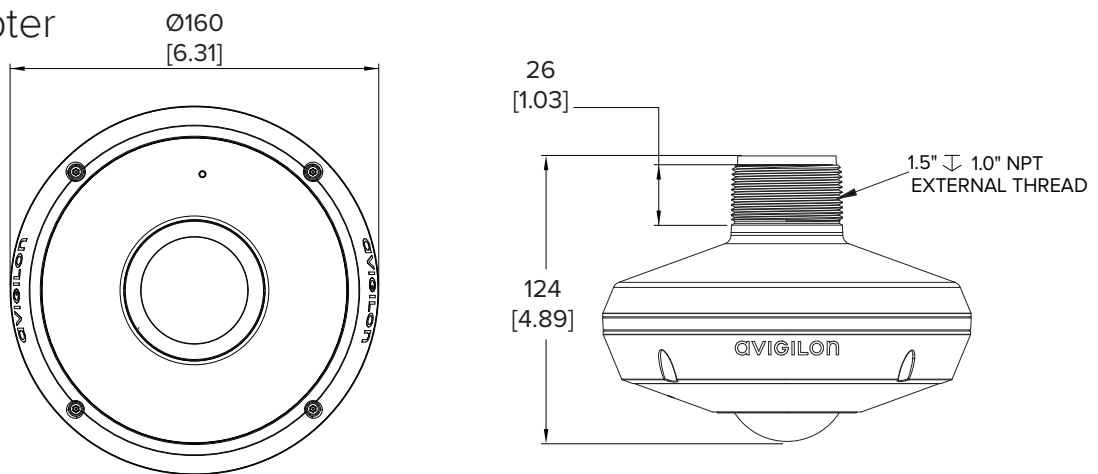
Ordering Information

	MP	LIGHTCATCHER TECHNOLOGY	LENS	IR
6.0L-H4F-DO1-IR	6.0	✓	Fisheye	✓
12.0-H4F-DO1-IR	12.0		Fisheye	✓
H4F-MT-NPTA1	NPT adapter for the Fisheye Dome Camera			
CM-MT-WALL1	Pendant wall mount compatible with H4F-MT-NPTA			