H4 SL Bullet Camera with LightCatcher™ Technology

Built on the Avigilon™ H4 platform, the H4 SL camera line combines exceptional image quality with an innovative and modular design that is easy to install at a cost-effective price. It harnesses our High Definition Stream Management (HDSM)™ technology to efficiently manage video data and uses idle scene mode technology to lower bandwidth and storage usage when there is no motion detected in the scene. The H4 SL camera line integrates with Avigilon Control Center (ACC) video management software and is ONVIF compliant for integration with a third-party VMS.

Straight out of the box, the H4 SL camera is designed and packaged for simple ordering and quick and flexible installation. This camera line's discreet and modular design allows it to seamlessly fit in to its surroundings. Bullet models have interchangeable brackets for maximum flexibility in mounting options, they can be vertically or horizontally-mounted with a versatile sunshade for unobstructed views. The H4 SL camera's IK10-rated, vandal-resistant and IP66 dust and water-resistant housing make it ideal for monitoring a variety of indoor and outdoor environments, such as hallways, public entrances and lobbies of banks, schools, retail outlets and hotels.

KEY FEATURES

1.3 and 2.0 megapixel resolution models

Patented High Definition Stream Management (HDSM) Technology

3-9 mm F/1.4 lens with remote zoom and focus

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

Wi-Fi camera configuration support

Avigilon LightCatcher™ technology provides exceptional image quality in low light environments

Dual Exposure Wide Dynamic Range

Integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to maximum of 15 m (~50 ft) away

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

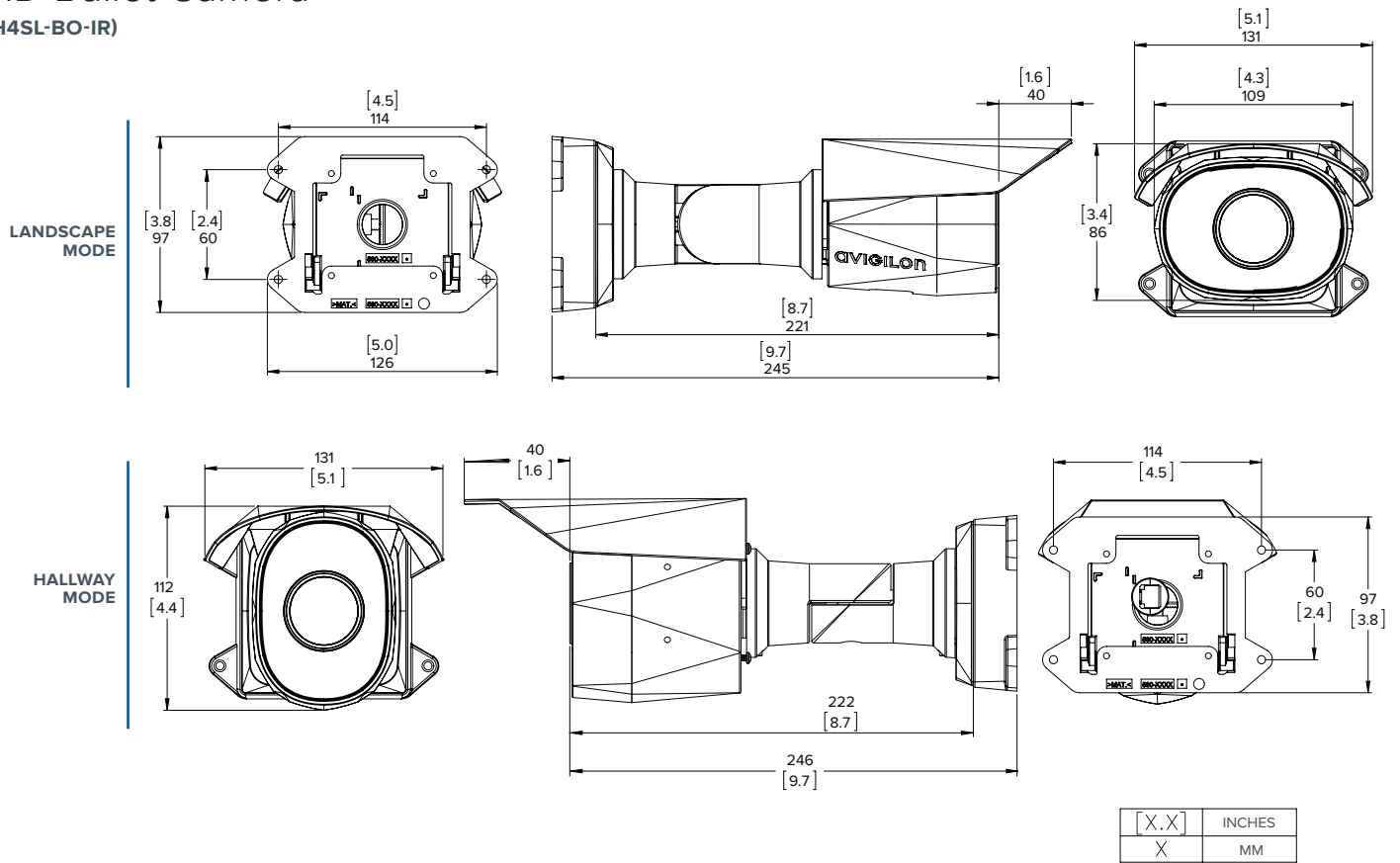IK10 vandal resistant construction and IP66 compliant

Specifications

		1.3 MP				2.0 MP			
IMAGE PERFORMANCE	Image Sensor	1/2.8" progressive scan CMOS							
	Aspect Ratio	5:4				16:9			
	Active Pixels (H x V)	1280 x 1024				1920 x 1080			
	Imaging Area (H x V)	3.7 mm x 3.0mm; 0.145" x 0.118"				5.6 mm x 3.1 mm; 0.22" x 0.122"			
	IR Illumination (high power 850 nm LEDs)	15 m (50 ft) max. distance at 0 lux							
	Minimum Illumination	0.01 lux (F/1.4) in color mode; 0 lux (F/1.4) in monochrome mode with IR							
	Image Rate	30 fps							
	Dynamic Range	100 dB							
	Resolution Scaling	Down to 384 x 216							

LENS	Lens	F/1.4, 3-9 mm, motorized, varifocal
	(Aspect ratio) HFoV	(5:4) 26° – 60°; (16:9) 39° – 90°

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
	Electronic Shutter Control	Automatic, Manual (1/6 to 1/8000 sec)
	Iris Control	Automatic, Manual
	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 compliant with version 1.02, 2.00, Profile S
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication
	Protocols	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	USB Port	USB 2.0
	Onboard Storage	microSD/microSDHC/microSDXC slot – minimum class 6; class 10/UHS-1 or better recommended

MECHANICAL	Dimensions (LxWxH)	285 mm x 131 mm x 97mm; 11.2" x 5.1" x 3.8" (including mounting bracket)
	Weight Camera:	1.29 kg (2.84 lbs)
	Mounting Bracket:	0.21 kg (0.46 lbs)
	Body	Aluminum
	Housing	Surface mount, tamper resistant, vandal resistant
	Finish	Powder coat, cool grey
	Adjustment Range	±175° pan, ±90° tilt, ±175° azimuth

ELECTRICAL	Power Consumption	9 W max
	Power Source	PoE: IEEE802.3af Class 3 compliant
	RTC Backup Battery	3V manganese lithium

ENVIRONMENTAL	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 - 95% non-condensing

CERTIFICATIONS	Certifications/Directives	UL	cUL	CE	WEEE	RCM	EAC	ROHS	KC
	Safety	UL 60950-1		CSA 60950-1	IEC/EN 60950-1		IEC 62471		
	Environmental	IK10 Impact Rating		UL/CSA/IEC 60950-22		IEC 60529 IP66 Rating			
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B		IC ICES-003 Class B	EN 55022 Class B	EN 61000-6-3	EN 61000-3-2	EN 61000-3-3	EN 55032 KN 32
	Electromagnetic Immunity	EN 55024		EN 61000-6-1		EN 50130-4			KN 35

Outline Dimensions

HD Bullet Camera
(H4SL-BO-IR)

LANDSCAPE MODE

[4.5] 114
[3.8] 97
[2.4] 60
[5.0] 126
[1.6] 40
[8.7] 221
[9.7] 245
[5.1] 131
[4.3] 109
[3.4] 86

HALLWAY MODE

131 [5.1]
112 [4.4]
40 [1.6]
222 [8.7]
246 [9.7]
114 [4.5]
60 [2.4]
97 [3.8]

[X.X]	INCHES
X	MM

HD Bullet Camera Junction Box
(H4-BO-JBOX1)

3/4 NPT
4 x ⌀ 5.0 THRU ALL
60 [2.4]
102 [4.0]
114 [4.5]
126 [5.0]
3/4 NPT
55 [2.2]
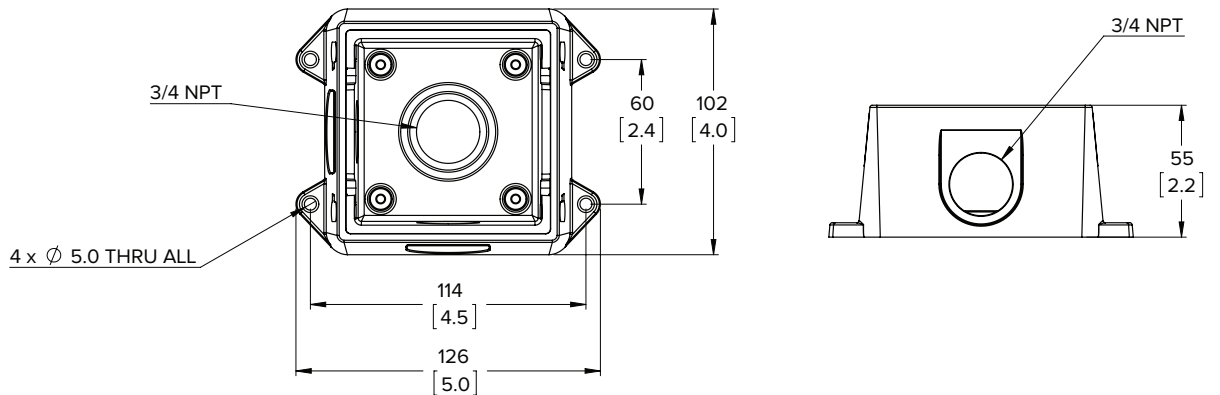
Ordering Information

	MP	WDR	LIGHTCATCHER TECHNOLOGY	LENS	IR	IP66
1.3C-H4SL-BO1-IR	1.3	✓	✓	3 - 9 mm	✓	✓
2.0C-H4SL-BO1-IR	2.0	✓	✓	3 - 9 mm	✓	✓
H4-BO-JBOX1	Junction box for H4 HD and H4 SL Bullet Cameras					
H4-MT-POLE1	Aluminum pole mounting bracket					
H4-MT-CRNR1	Aluminum corner mounting bracket					
H4-AC-WIFI1-NA	USB Wi-Fi Adapter for North America, Latin America (except Brazil), Taiwan					
H4-AC-WIFI2-EU	USB Wi-Fi Adapter for European Union					

H4 SL Dome Camera
with LightCatcher™ Technology

Built on the Avigilon™ H4 platform, the H4 SL camera line combines exceptional image quality with an innovative and modular design that is easy to install at a cost-effective price. It harnesses our High Definition Stream Management (HDSM)™ technology to efficiently manage video data and uses idle scene mode technology to lower bandwidth and storage usage when there is no motion detected in the scene. The H4 SL camera line integrates with Avigilon Control Center (ACC)™ video management software and is ONVIF compliant for integration with a third-party VMS.

Straight out of the box, the H4 SL camera is designed and packaged for simple ordering and quick and flexible installation. This camera line's discreet and modular design allows it to seamlessly fit in to its surroundings. Dome models come with surface and in-ceiling mounts that can quickly and easily be alternated. The H4 SL camera's IK10-rated, vandal-resistant and IP66 dust and water-resistant housing make it ideal for monitoring a variety of indoor and outdoor environments, such as hallways, public entrances and lobbies of banks, schools, retail outlets and hotels.

KEY FEATURES

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Dual Exposure Wide Dynamic Range

Integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to maximum of 15 m (~50 ft) away

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

IK10 vandal resistant construction and IP66 compliant

Specifications

		1.3 MP	2.0 MP
IMAGE PERFORMANCE	Image Sensor	1/2.8" progressive scan CMOS	
	Aspect Ratio	5:4	16:9
	Active Pixels (H x V)	1280 x 1024	1920 x 1080
	Imaging Area (H x V)	3.7 mm x 3.0mm; 0.145" x 0.118"	5.6 mm x 3.1 mm; 0.22" x 0.122"
	IR Illumination (high power 850 nm LEDs)	15 m (50 ft) max. distance at 0 lux	
	Minimum Illumination	0.01 lux (F/1.4) in color mode; 0 lux (F/1.4) in monochrome mode with IR	
	Image Rate	30 fps	
	Dynamic Range	100 dB	
	Resolution Scaling	Down to 384 x 216	

LENS	Lens	F/1.4, 3-9 mm, motorized, varifocal
	(Aspect ratio) HFoV	(5:4) 26° – 60°; (16:9) 39° – 90°

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
	Electronic Shutter Control	Automatic, Manual (1/6 to 1/8000 sec)
	Iris Control	Automatic, Manual
	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 compliant with version 1.02, 2.00, Profile S
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication
	Protocols	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	USB Port	USB 2.0
	Onboard Storage	microSD/microSDHC/microSDXC slot – minimum class 6; class 10/UHS-1 or better recommended

				PENDANT MOUNT	
MECHANICAL		SURFACE MOUNT	IN-CEILING MOUNT	NPT ADAPTER	NPT + WALL MOUNT
	Dimensions (LxWxH)	147 mm x 147 mm x 119 mm; 5.8" x 5.8" x 4.7"	174 mm x 174 mm x 162 mm; 6.9" x 6.9" x 6.4"	153 mm x 153 mm x 166 mm; 6.0" x 6.0" x 6.5"	269 mm x 153 mm x 214 mm; 10.6" x 6.0" x 8.4"
	Max. Ceiling Thickness	n/a	32 mm (1.25")	n/a	n/a
	Weight	0.78 kg; 1.72 lbs	0.77 kg; 1.69 lbs	0.77 kg; 1.69 lbs	2.04 kg; 4.49 lbs
	Dome Bubble	Polycarbonate, clear			
	Body	Polycarbonate			Polycarbonate/aluminum
	Housing	Vandal resistant			
	Finish	Fog coat, cool grey			Powder coat, cool grey
	Adjustment Range	360° pan, 30° – 95° tilt, ±180° azimuth			

ELECTRICAL	Power Consumption	7 W max
	Power Source	PoE: IEEE802.3af Class 3 compliant
	RTC Backup Battery	3V manganese lithium

ENVIRONMENTAL	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 - 95% non-condensing

CERTIFICATIONS	Certifications/Directives	UL	cUL	CE	ROHS	WEEE	RCM	EAC	KC
	Safety	UL 60950-1		CSA 60950-1		IEC/EN 60950-1		IEC 62471	
	Environmental	IK10 Impact Rating		UL/CSA/IEC 60950-22		IEC 60529 IP66 Rating			
	Electromagnetic Emissions	FCC Part 15 Subpart B Class B		IC ICES-003 Class B	KN 32	EN 55022 Class B	EN 61000-6-3	EN 61000-3-2	EN 61000-3-3	EN 55032
	Electromagnetic Immunity	EN 55024			KN 35		EN 61000-6-1		EN 50130-4

Outline Dimensions

Surface Mount
(H4SL-DO-IR)

[4.7] 119

[5.8] Ø147

[5.8] Ø147

[2.5] 63

[3.3] 83

[0.9] 23

[1.3] 33

[2.5] 63

[2.4] 60

[2.5] 63
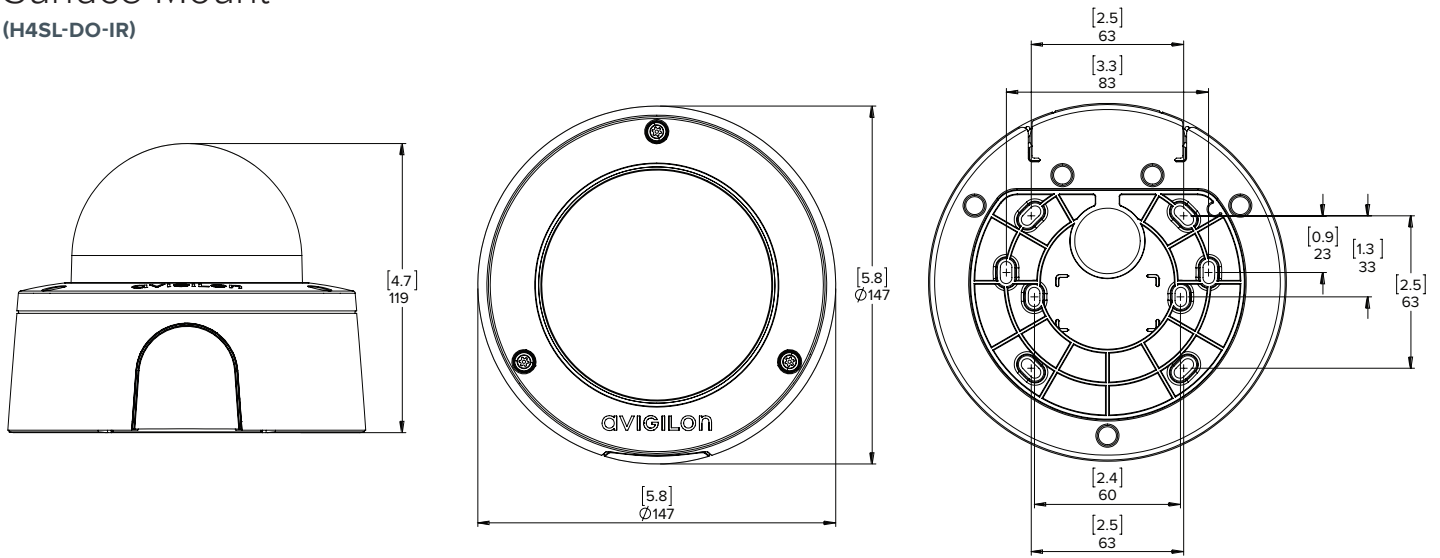
In-Ceiling Mount
(H4SL-DO-IR + H4SL-MT-DCIL)

[X.X]	INCHES
X	MM

[5.9] Ø149

[6.4] 162

[3.8] 2X 96

[2.6] 66

[6.9] Ø174

[6.9] Ø174
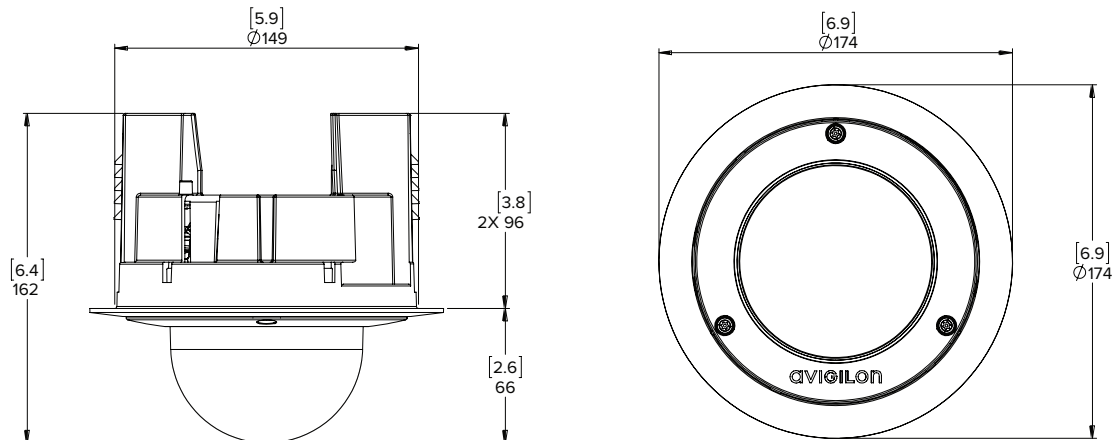
NPT Adapter
(H4SL-DO-IR + H4SL-MT-NPTA)

[6.5] 166

[6.0] Ø153

[6.0] Ø153

[6.0] Ø153
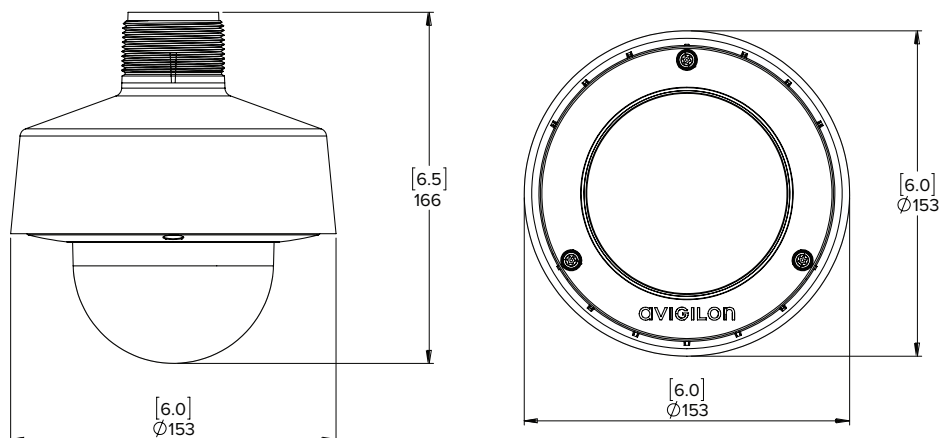
NPT Adapter and Pendant Wall Mount

(H4SL-DO-IR + H4SL-MT-NPTA + CM-MT-WALL1)
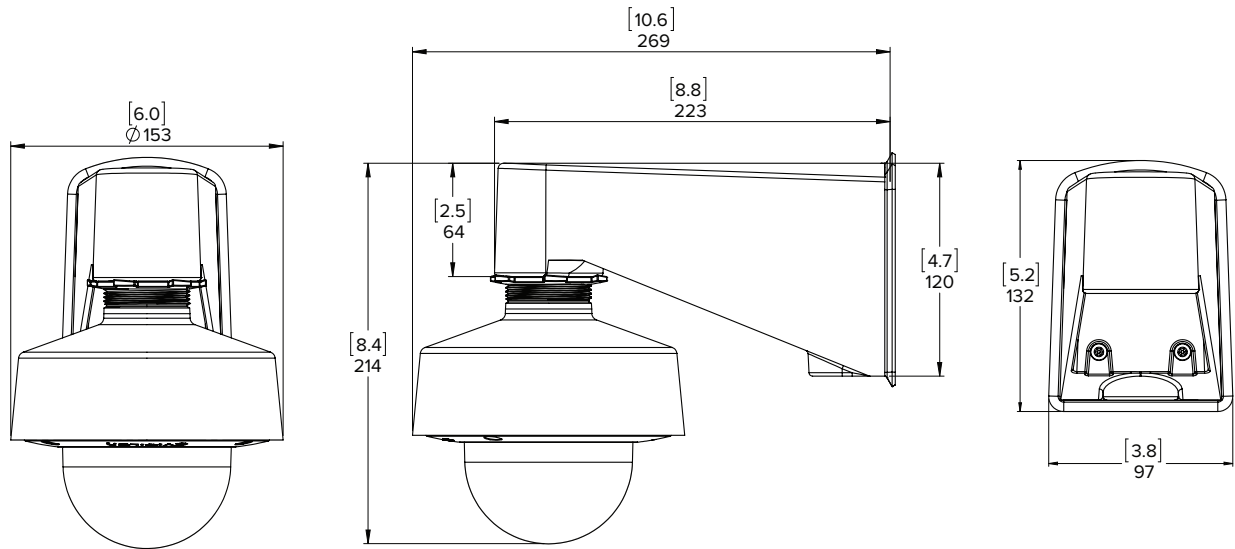
Ordering Information

	MP	WDR	LIGHTCATCHER TECHNOLOGY	LENS	IR	IP66
1.3C-H4SL-DO1-IR	1.3	✓	✓	3 - 9 mm	✓	✓
2.0C-H4SL-DO1-IR	2.0	✓	✓	3 - 9 mm	✓	✓
H4SL-MT-DCIL1	In-ceiling mounting adapter for the H4 SL dome camera					
H4SL-MT-NPTA1	NPT adapter for the H4 SL dome camera					
CM-MT-WALL1	Pendant wall mount					
H4-DC-CPNL1	Metal Ceiling Panel					
H4-AC-WIFI1-NA	USB Wi-Fi Adapter for North America, Latin America (except Brazil), Taiwan					
H4-AC-WIFI2-EU	USB Wi-Fi Adapter for European Union					