

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

 $\label{eq:continuity} \mbox{Avigilon LightCatcher}^{\mbox{\tiny M}} \mbox{ technology provides exceptional image quality in low light environments}$

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 ($^{\sim}50$ 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

MagG PREFORMANCE PREFORMANCE MagG Sensor 1/2.8" progressive scan CMOS			1.3 MP			2.0 MP									
PERFORMANCE Active Pixels (H x V) 1280 x 1024 1280 x 1024 1280 x 1024 1280 x 1028 1280 x 1018"		Image Sensor													
Active Pixels (H x V) 1280 x 1024 1920 x 1080 1920 x 1080	PERFORMANCE	_				16:9									
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"			1280 x 1024			1920 x 108	0								
R Ilumination 15 m (50 ft) max. distance at 0 lux (nigh power 850 nm LEDs) (nigh power 850 n			3.7 mm x 3.0mm; 0.145" x 0.118"			5.6 mm x 3	.1 mm; 0.22" x 0.1	22"							
Minimum Illumination O.01 Lux (F/1.4) in color mode; O 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 Mage Compression Method			15 m (50 ft) max. distance at 0 lu	x											
Image Rate 30 fps Dynamic Range 100 dB Resolution Scaling Down to 384 x 216 Resolution Scaling Down to 384 x 216 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 M-264 (MPEG-4 Part 10/AVC), Motion JPEG Bandwidth Management HDSM; Idle Scene Mode Motion Detection Pixel Bendwidth Monagement 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 100BASE-TX Cabling Type CATS Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S															
Dynamic Range 100 dB Resolution Scaling Down to 384 x 216				ux (F/1.4) in mond	chrome mode w	vith IR									
LENS Lens F.f.4, 3-9 mm, motorized, varifocal															
LENS Lens F/1.4, 3-9 mm, motorized, varifocal (Aspect ratio) HFoV (5.4) 26" – 60"; (16:9) 39" – 90" IMAGE CONTROL		-													
IMAGE CONTROL Image Compression Method Method Streaming Multi-stream H.264 and Motion JPEG Bandwidth Management HDSM; Idle Scene Mode Motion Detection Pixel Electronic Shutter Control Automatic, Manual Day/Night Control Automatic, Manual Flicker Control 50 Hz, 60 Hz White Balance Automatic, Manual Privacy Zones Up to 64 zones NETWORK Network Network Network Network ONVIF ONVIF ONVIF ONVIF compliant with version 1.02, 2.00, Profile S		Resolution Scaling	Down to 384 x 216												
IMAGE CONTROL Image Compression Method Method Streaming Multi-stream H.264 and Motion JPEG Bandwidth Management HDSM; Idle Scene Mode Motion Detection Pixel Electronic Shutter Control Automatic, Manual Day/Night Control Automatic, Manual Flicker Control 50 Hz, 60 Hz White Balance Automatic, Manual Privacy Zones Up to 64 zones NETWORK Network Network Network Network ONVIF ONVIF ONVIF ONVIF compliant with version 1.02, 2.00, Profile S	LENS	Long	E/1.4.2.0 mm motorized varifor	·al											
IMAGE CONTROL Image Compression Method 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	LLNS			aı											
Method 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		(Aspect ratio) in ov	(3.4) 20 - 00 , (10.3) 33 - 30												
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	IMAGE CONTROL		H.264 (MPEG-4 Part 10/AVC), Motion JPEG												
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		Streaming	Multi-stream H.264 and Motion JPEG												
Electronic Shutter Control Automatic, Manual (t/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 Cabling Type CAT5 Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S		Bandwidth Management	HDSM; Idle Scene Mode												
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		Motion Detection	Pixel												
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 Cabling Type CAT5 Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S		Electronic Shutter Control	Automatic, Manual (1/6 to 1/8000 sec)												
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		Iris Control													
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		Day/Night Control													
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		Flicker Control													
NETWORK Network 100BASE-TX Cabling Type CAT5 Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S		White Balance													
NETWORK Network 100BASE-TX Cabling Type CAT5 Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S		Backlight Compensation													
Cabling Type CAT5 Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S		Privacy Zones													
Cabling Type CAT5 Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S															
Connector RJ-45 ONVIF ONVIF compliant with version 1.02, 2.00, Profile S	NETWORK	Network	100BASE-TX												
ONVIF ONVIF compliant with version 1.02, 2.00, Profile S		Cabling Type	CAT5												
		Connector													
Security Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication		ONVIF	ONVIF compliant with version 1.0	02, 2.00, Profile 9	5										
		Security	Password protection, HTTPS en	cryption, digest a	uthentication, W	/S authentication, (user access log, 8	02.1x port based a	uthentication						
Protocols IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP		Protocols													
Streaming Protocols RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP		Streaming Protocols													
Device Management SNMP v2c, SNMP v3 Protocols			SNMP v2c, SNMP v3	SNMP v2c, SNMP v3											
11010000		Trotocols													
PERIPHERALS USB Port USB 2.0	PERIPHERALS	USB Port	USB 2.0												
Onboard Storage microSD/microSDXC slot – minimum class 6; class 10/UHS-1 or better recommended		Onboard Storage	microSD/microSDHC/microSDX0	C slot – minimum	class 6; class 10)/UHS-1 or better re	ecommended								
MECHANICAL Dimensions (LxWxH) 285 mm x 131 mm x 97mm; 11.2" x 5.1" x 3.8" (including mounting bracket)	MECHANICAL	Dimensions (LxWxH)	285 mm x 131 mm x 97mm; 11.2"	x 5.1" x 3.8" (inclu	uding mounting b	oracket)									
Weight Camera: 1.29 kg (2.84 lbs)		Weight Camera:													
Mounting Bracket: 0.21 kg (0.46 lbs)		Mounting Bracket:	0.21 kg (0.46 lbs)												
Body Aluminum		Body	Aluminum												
Housing Surface mount, tamper resistant, vandal resistant		Housing	Surface mount, tamper resistant, vandal resistant												
Finish Powder coat, cool grey		Finish	Powder coat, cool grey												
Adjustment Range ±175° pan, ±90° tilt, ±175° azimuth		Adjustment Range	$\pm 175^{\circ}$ pan, $\pm 90^{\circ}$ tilt, $\pm 175^{\circ}$ azimuth	1											
ELECTRICAL Device Consumation C.W.	FLECTRICAL	Dawer Canaumatian	0.11/												
ELECTRICAL Power Consumption 9 W max	ELECTRICAL														
			PoE: IEEE802.3af Class 3 compliant												
RTC Backup Battery 3V manganese lithium		KTC Backup Battery	3v manganese litnium												
ENVIRONMENTAL Operating Temperature -30 °C to +60 °C (-22 °F to 140 °F)	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		Humidity													
CERTIFICATIONS Certifications/Directives UL CUL CE WEEE RCM EAC ROHS KC	CERTIFICATIONS							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 I C ICES-003 EN 55022 EN 61000-6-3 EN 61000-3-2 EN 61000-3-3 EN 55032 KN 32							_	EN 61000-3-3	EN 55032	KN 32					
Class B Class B		-		Class B						. 52					
Electromagnetic Immunity EN 55024 EN 61000-6-1 EN 50130-4 KN 35		Electromagnetic Immunity	EN 55U24	EIN 61000-6-1		EN 50130-4			KN 35						

Outline Dimensions

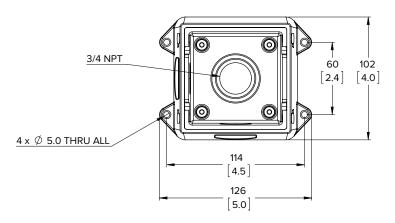
HD Bullet Camera

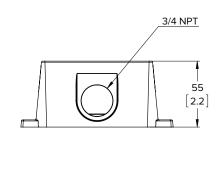
[5.1] 131 (H4SL-BO-IR) [1.6] 40 [4.3] 109 [4.5] 114 [3.4] 86 [3.8] [2.4] 97 60 LANDSCAPE MODE [5.0] 126 [9.7] 245 40 [1.6] 114 [4.5] 131 [5.1] HALLWAY MODE 60 97 [2.4] [3.8] 222 8.7 [9.7]

MM

HD Bullet Camera Junction Box

(H4-BO-JBOX1)





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							
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

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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

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 ($^{\sim}50$ 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

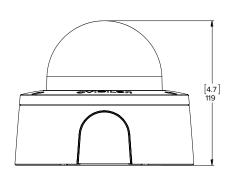
Specifications

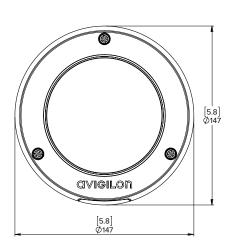
•		1.3 MP				2.0 MP							
IMAGE	Image Sensor	1/2.8" progressive scan CMOS											
PERFORMANCE	Aspect Ratio	5:4			16:9								
	Active Pixels (H x V)	1280 x 1024				1920 × 1080							
	Imaging Area (H x V)	3.7 mm x 3.0mm; 0.145" x	0118"			5.6 mm x 3.1 mm; 0.2	22" x 0122"						
	IR Illumination	15 m (50 ft) max. distance				0.0 11111 X 0.1 11111, 0.12	-						
	(high power 850 nm LEDs)												
	Minimum Illumination	0.01 lux (F/1.4) in color mod	de; 0 lux (F/1	I.4) in monochrom	e mode with IR	2							
	Image Rate	30 fps											
	Dynamic Range	100 dB											
	Resolution Scaling	Down to 384 x 216											
LENS	Lens	F/1.4, 3-9 mm, motorized, v	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 M	otion 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/micro	oSDXC slot	– minimum class 6	s; class 10/UHS	S-1 or better recommen	ded						
MEGUANICAL							DENDANTA	IOUNT.					
MECHANICAL		SURFACE MOUN	IT	IN-CEILING	MOUNT	NPT ADAPTER	PENDANT N	PT + WALL MOUN	т				
	Dimensions (LxWxH)	147 mm x 147 mm x 119 mn	n; 17	74 mm x 174 mm x	162 mm;	153 mm x 153 mm x		69 mm x 153 mm x 2	:14 mm;				
	Max. Ceiling Thickness	5.8" x 5.8" x 4.7"				6.0" x 6.0" x 6.5"		10.6" x 6.0" x 8.4"					
	Weight	n/a		2 mm (1.25") 77 kg; 1.69 lbs				n/a					
	Dome Bubble	0.78 kg; 1.72 lbs	0.	.// kg; 1.69 lbs		0.77 kg; 1.69 lbs	2.0	04 kg; 4.49 lbs					
	Body	Polycarbonate, clear					D	h / . l					
	Housing	Polycarbonate					PC	olycarbonate/alumin	um				
	Finish	Vandal resistant Description of the control of the											
	Adjustment Range	Fog coat, cool grey Powder coat, cool grey											
	Adjustifierit Range	360° pan, 30° – 95° tilt, ±18	80° azimutn										
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 15	58 °F)										
	Humidity	0 - 95% non-condensing											
CERTIFICATIONS	Certifications/Directives	UL cUL	CE	ROHS	WEEE	RCM	EAC	KC					
	Safety	UL 60950-1	CSA 6095		IEC/EN 609		IEC 62471						
	Environmental	IK10 Impact Rating	UL/CSA/IE	C 60950-22	IEC 60529 I	P66 Rating							
	Electromagnetic Emissions		IC ICES-00	3 KN 32	EN 55022 C	class B EN 61000-6	-3 EN 61000-3-2	2 EN 61000-3-3	EN 55032				
	Electromagnetic Immunity	Class B EN 55024	Class B	KN 35		EN 61000-6	-1	EN 50130-4					

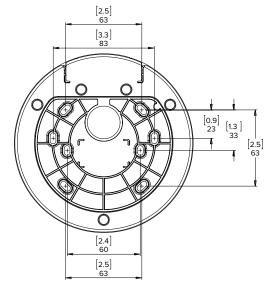
Outline Dimensions

Surface Mount

(H4SL-DO-IR)

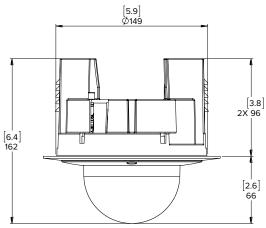


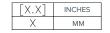


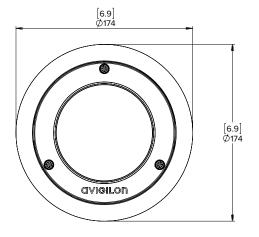


In-Ceiling Mount

(H4SL-DO-IR + H4SL-MT-DCIL)

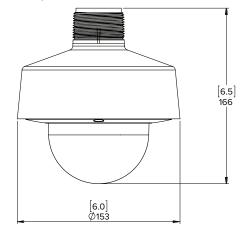


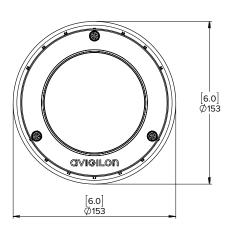




NPT Adapter

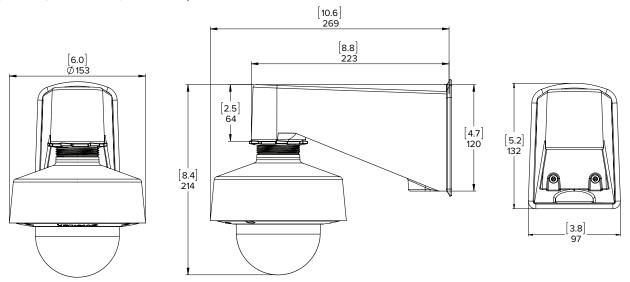
(H4SL-DO-IR + H4SL-MT-NPTA)





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								
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								