H4 SL Dome Camera with LightCatcher™ Technology

The H4 SL camera line has an innovative and modular design that is easy to install. Built on the H4 platform, it combines our patented LightCatcher and Wide Dynamic Range (WDR) technologies to provide exceptional image quality in complex lighting.

Using HDSM SmartCodec™ and idle scene mode technologies, the H4 SL camera optimizes video streams in real time, minimizing bandwidth and storage requirements while maintaining clear, detailed images. It integrates with Avigilon Control Center™ video management software (VMS), and is ONVIF-compliant for integration with a third-party VMS. With significant improvements to bandwidth savings and lower storage retention, as well as its easy-to-install, modular design, the H4 SL camera line adds even more value than before, lowering your total cost of ownership.

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 (outdoor model only) 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.

Avigilon HDSM SmartCodec technology H4 SL optimizes the video stream in real time using automatic ROI encoding to save bandwidth and storage requirements while maintaining image quality.

KEY FEATURES

| |
|---|
| 1.3, 2.0 and 3.0 megapixel resolution models |
| Innovative modular design for quick and easy installs |
| 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 for complex lighting environments |
| Integrated IR (Infrared) LEDs provide uniform illumination in the dark, even at 0 lux, up to maximum of 15 m (~50 ft) away (outdoor model only) |
| Avigilon HDSM SmartCodec technology for reduce bandwidth and storage requirements |
| Idle scene mode lowers bandwidth and storage usage if there are no motion events detected in the scene |
| (Outdoor model only) IK10 vandal resistant construction and IP66 compliant |

Specifications

	1.3 MP	2.0 MP	3.0 MP
IMAGE PERFORMANCE			
Image Sensor	1/2.8" progressive scan CMOS		
Aspect Ratio	5:4	16:9	4:3
Active Pixels (H x V)	1280 x 1024	1920 x 1080	2048 x 1536
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"	5.12 mm x 3.84 mm; 0.202" x 0.157
Image Rate	30 fps	30 fps	20 fps
Minimum Illumination — with IR	0.01 lux in color mode; 0 lux (F/1.4) in monochrome mode		0.02 lux in color mode; 0 lux (F/1.4) in monochrome mode
— without IR	0.01 lux in color mode; 0.002 lux (F/1.4) in monochrome mode		0.02 lux in color mode; 0.004 lux (F/1.4) in monochrome mode
IR Illumination (high power 850 nm LEDs)	(H4SL-D) Indoor model — 10 m (33 ft) max. distance at 0 lux (H4SL-DO) Outdoor model — 15 m (50 ft) max. distance at 0 lux		
Dynamic Range	100 dB		
Resolution Scaling	Down to 384 x 216		
Bandwidth Management	HDSM SmartCodec technology; Idle scene mode		
3D Noise Reduction Filter	Yes		
LENS			
Lens	F/1.4, 3-9 mm, motorized, varifocal		
(Aspect ratio) HFoV	(5:4) 26° – 60°; (16:9) 39° – 90°		(5:4) 36° – 84°; (16:9) 39° – 90°; (4:3) 39° – 90°
IMAGE CONTROL			
Image Compression Method	H.264 (MPEG-4 Part 10/AVC), Motion JPEG		
Streaming	Multi-stream H.264 and Motion JPEG		
Video Compression	H.264/MJPEG/HDSM SmartCodec technology		
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

	SURFACE MOUNT	IN-CEILING MOUNT	PENDANT MOUNT — NPT ADAPTER	PENDANT MOUNT — 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	H4SL-D — 0.76 kg; 1.68 lbs H4SL-DO — 0.78 kg; 1.72 lbs	H4SL-D — 0.75 kg; 1.65 lbs H4SL-DO — 0.77 kg; 1.69 lbs	H4SL-D — 0.75 kg; 1.65 lbs H4SL-DO — 0.77 kg; 1.69 lbs	H4SL-D — 2.02 kg; 4.45 lbs H4SL-DO — 2.04 kg; 4.49 lbs
Dome Bubble	Polycarbonate, clear			
Body	Polycarbonate			Polycarbonate/aluminum
Housing	Vandal resistant			
Finish	Fog coat, cool grey			Powder coat, RAL 9003
Adjustment Range	360° pan, 30° – 95° tilt, ±180° azimuth			

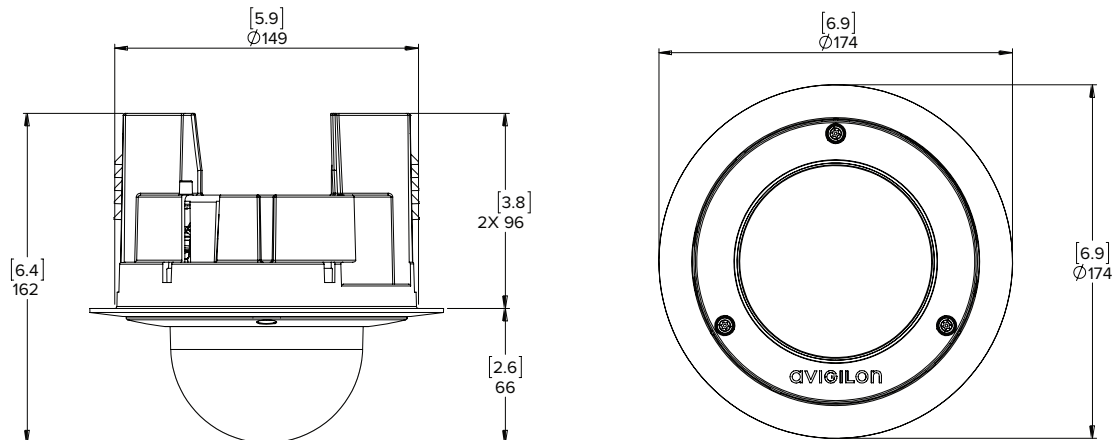|	
ELECTRICAL	
Power Consumption	H4SL-D — 4 W max H4SL-DO — 7 W max
Power Source	PoE: IEEE802.3af Class 3 compliant
RTC Backup Battery	3V manganese lithium
ENVIRONMENTAL	
Operating Temperature	Outdoor: -30 °C to +60 °C (-22 °F to 140 °F); Indoor: 0 °C to +60 °C (32 °F to 140 °F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)
Humidity	0 - 95% non-condensing
CERTIFICATIONS	
Certifications/Directives	UL, cUL, CE, ROHS, WEEE, RCM, EAC (not applicable to 3MP indoor dome), KC
Safety	UL 60950-1, CSA 60950-1, IEC/EN 60950-1, IEC 62471
Environmental	(H4SL-DO outdoor models only) 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

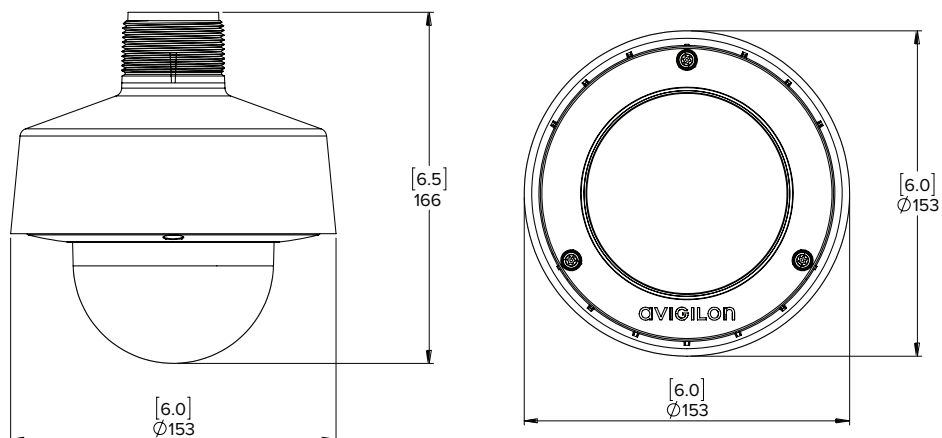## Surface Mount
(H4SL-D / H4SL-DO + provided surface mount)

[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
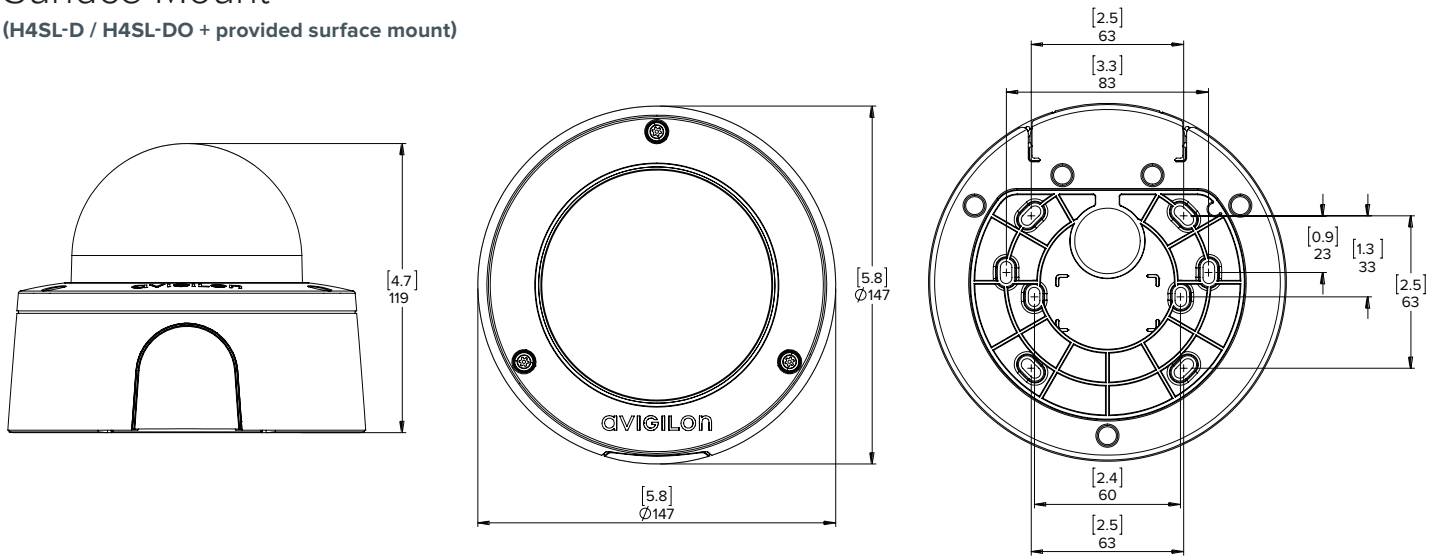
In-Ceiling Mount
(H4SL-D/H4SL-DO + H4SL-MT-DCIL)

[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-D/H4SL-DO + H4SL-MT-NPTA)

[6.5]
166

[6.0]
Ø153

[6.0]
Ø153

[6.0]
Ø153

NPT Adapter and Pendant Wall Mount

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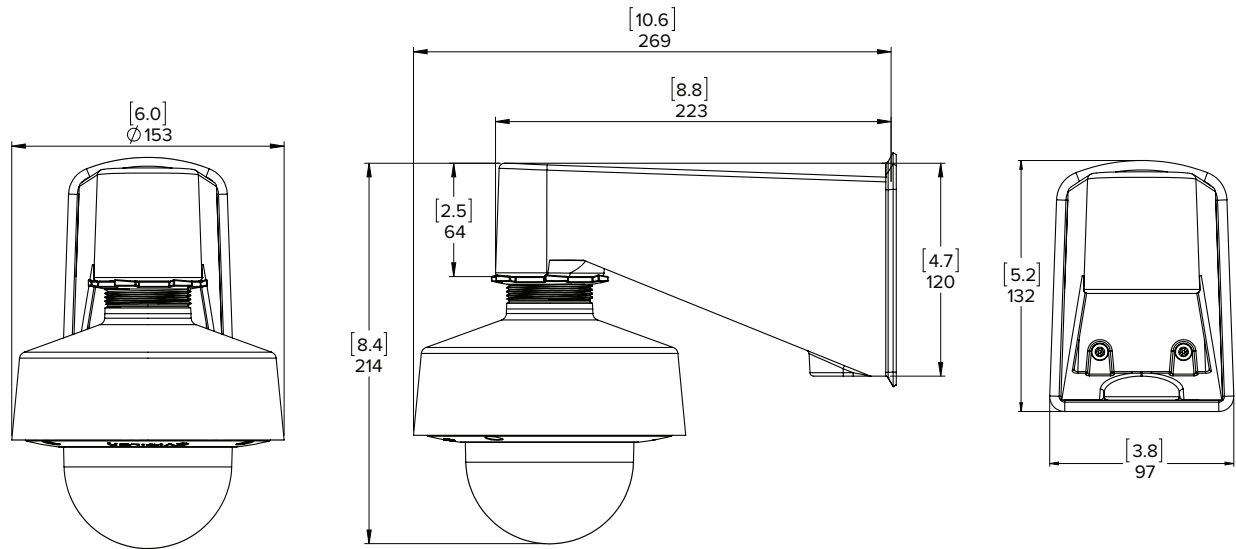
Ordering Information

	MP	WDR	LightCatcher Technology	Lens	IR	IP66	HDSM SmartCodec
1.3C-H4SL-D1	1.3	✓	✓	3 - 9 mm			✓
2.0C-H4SL-D1	2.0	✓	✓	3 - 9 mm			✓
3.0C-H4SL-D1	3.0	✓	✓	3 - 9 mm			✓
1.3C-H4SL-D1-IR	1.3	✓	✓	3 - 9 mm	✓		✓
2.0C-H4SL-D1-IR	2.0	✓	✓	3 - 9 mm	✓		✓
3.0C-H4SL-D1-IR	3.0	✓	✓	3 - 9 mm	✓		✓
1.3C-H4SL-DO1-IR	1.3	✓	✓	3 - 9 mm	✓	✓	✓
2.0C-H4SL-DO1-IR	2.0	✓	✓	3 - 9 mm	✓	✓	✓
3.0C-H4SL-DO1-IR	3.0	✓	✓	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-WIFI2-NA	USB Wi-Fi adapter
H4-AC-WIFI2-EU	USB Wi-Fi adapter