







Unity H6SL Camera Line

Versatility meets high-performance



The Avigilon Unity H6SL camera line delivers high performance with bullet and dome form factors, making it suitable for indoors and outdoors. It comes equipped with Al-powered video analytics and can capture detailed images in all lighting.



Advanced Search Support

Quickly locates and identifies people and vehicles of interest with Appearance Search and Facial Recognition support, allowing you to streamline the investigation process.



Al-powered Video Analytics

Detects more objects through expanded object classifications and increased accuracy, allowing for faster responses, even in crowded scenes.



Impact & Weather Protection

Protects against impact, water, windblown dust and a degree of corrosion with IK10, IP66/67 and NEMA Type 4X ratings.¹



Lens and Microphone Options

Offers long-range lens options for optimal site coverage. Provides the option to add a microphone accessory on the indoor dome variant for greater evidentiary detail.



H.264 & H.265 HDSM SmartCodec™

Provides significantly improved bandwidth management, so you can achieve maximum image detail in all lighting using less bandwidth.



FIPS 140-2 Cryptography

Brings increased data security with FIPS-compliant encryption enabled on cameras, an onboard TPM² to secure cryptographic keys and Secure Boot.



¹ IK10 rating available on all models; IP66/67 and NEMA 250 Type 4X rating available on outdoor models only.

² FIPS 140-2 Level 3-compliant trusted platform module (TPM)

Specifications

IMAGE PERFORMANCE		2.0 MP	3.0 MP	5.0 MP	8.0 MP (4K ULTRA HD)		
Image Sensor		1/2.8" progressive scan CMC	1/1.8" CMOS				
Imaging Area (H × V)		5.57 mm × 3.13 mm 0.219" × 0.123"	5.18 mm × 3.89 mm 0.204" × 0.153"		7.68 mm x 4.32 mm 0.302" x 0.170"		
Aspect Ratio		16:9	4:3		16:9		
Dynamic	WDR Off	83 dB					
Range	WDR On	126 dB	130 dB				
Camera Operat	ing Mode	Full Feature/No Video Analyt	ics	Full Feature/No Video Analyt	ics/High Framerate		
Max Frame Rate		(50 Hz/60 Hz): 50 fps/60 fps	(50 Hz/60 Hz): 25 fps/30 fps				
	Primary Stream	1920x1080, 1440x1080	2048x1536, 2048x1152, 1792x1344	2592x1944 2240x1680 2560x1440 1920x1080	3840x2160, 3200x1800, 2880x2160, 3072x1728, 2560x1920, 1920x1080		
Streaming Resolutions ¹	Secondary Stream	1920x1080, 1440x1080, 1280x960, 1280x720, 960x720, 800x600, 768x432, 640x480, 640x360, 512x288, 384x288, 384x216	1760x1320, 1920x1080, 1600x1200, 1280x960, 1280x720, 960x720, 768x432, 640x480, 640x360, 512x384, 512x288, 384x288, 384x216	1600x1200, 1440x1080, 1920x1080, 1280x960, 1280x720, 800x600, 768x432, 640x480, 640x360, 512x384, 512x288, 384x288, 368x264, 384x216	1920x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 800x600, 768x432, 640x480, 640x360, 512x384 512x288, 384x288		
	Tertiary Stream	640x360, 512x384, 512x288, 384x216 640x480, 640x360, 512x384, 384x288, 384x216		640x360, 512x384, 512x288, 384x288, 368x264, 384x216	640x360, 512x384		
Bandwidth Management		HDSM SmartCodec™ technology; Idle scene mode					
3D Noise Reduc	ction Filter	Supported					
Signal-to-Noise	Ratio (SNR)	> 50 dB					

¹ Available stream options may vary based on the combination of resolution and frame-rates selected for the individual streams, as well as the camera operating mode.

LENS AND IR ILLUMINATION (DOME)	2.0 MP	3.0 MP	5.0 MP	8.0 MP(4K ULTRA HD)
IR Illumination Max Distance (high power 850 nm LEDs)	30 m (100 ft), full tele 20 m (65 ft), full wide			40 m (131 ft), full tele 25 m (82 ft), full wide
Minimum Illumination (at 33 ms shutter speed)	With IR: 0 lux in monochrome mode Without IR: 0.01 lux in color mode; 0.005 lux in monochrome mode		onochrome mode ux in color mode; 0.02 lux in de	With IR: 0 lux in monochrome mode Without IR: 0.02 lux in color mode; 0.01 lux in monochrome mode
Horizontal Angle of View	101° - 31°	95° - 28°		103° - 47°
Vertical Angle of View	53° - 17°	69° - 21°		54° - 26°
Max Aperture	F1.6			F1.3
Lens Control	er			



LENS AND IR ILLUMINATIO	N (BULLET)	2.0 MP	3.0 MP	5.0 MP	8.0 MP(4K ULTRA HD)			
IR Illumination	3.4-10.5 mm	50 m (164 ft), full tele 0 m (100 ft), full wide	40 m (131 ft), full tele 20 m (65 ft), full wide		N/A			
Max Distance (high power	10.9-29 mm	N/A	70 m (230 ft), full tele 30 m (100 ft), full wide		N/A			
850 nm LEDs)	4.4 - 9.3 mm	N/A		50 m (164 ft), full tele 30 m (100 ft), full wide				
	3.4-10.5 mm	With IR: 0 lux in monochrome mode Without IR: 0.01 lux in color mode; 0.005 lux in monochrome mode	With IR: 0 lux in monochrome Without IR: 0.04 lux in color memode	N/A				
(at 33 ms shutter speed)	10.9-29 mm	N/A		With IR: 0 lux in monochrome mode Without IR: 0.04 lux in color mode; 0.02 lux in monochrome mode				
	4.4 - 9.3 mm	N/A	With IR: 0 lux in monochrome mode Without IR: 0.02 lux in color mode; 0.01 lux in monochrome mode					
	3.4-10.5 mm	101° - 31°	95° - 28°		N/A			
Horizontal	10.9-29 mm	N/A	28° - 10°		N/A			
Angle of View	4.4 - 9.3 mm	N/A		103° - 47°				
	3.4-10.5 mm	53° - 17°	69° - 21°		N/A			
Vertical	10.9-29 mm	N/A	21° - 7°	N/A				
Angle of View	4.4 - 9.3 mm	N/A	54° - 26°					
	3.4-10.5 mm	F1.6	N/A					
-								
Max Aperture	10.9-29 mm	F1.7	N/A					
	4.4 - 9.3 mm	N/A	F1.3					
Lens Control		Remote Zoom and Focus, Autofocus, IR Cut Filter						
IMAGE CONTR	ROL							
Image Compres	ssion Method	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG						
Streaming		Multi-stream H.264, Multi-stream H.265, Motion JPEG						
Motion Detectio		Pixel motion: Selectable sensitivity and threshold. Classified object detection. Automatic, Manual (1/7.5 to 1/30000 sec)						
Day/Night Contr		Automatic, Manual (1/7.5 to 1/30000 sec) Automatic, Manual						
Flicker Control		50 Hz, 60 Hz						
Iris Control		P-Iris						
White Balance		Automatic, Manual						
Backlight Compo	ensation	Adjustable 0°,90°, 180°, 270° including Co	orridor Mode					
Privacy Zones		Up to 64 zones	indoi Mode					
NETWORK								
Network		100BASE-TX						
Cabling Type		CAT5						
Network		RJ45 Connector						
ONVIF		ONVIF® compliance Profile S, Profile T, Profile G, and Profile M (www.onvif.org)						
Security		Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, FIPS 140-2, onboard FIPS 140-2 L3 certified TPM, Secure Boot, signed and encrypted firmware						
Protocols		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv3, ICMP, DHCP, Zeroconf, HSTS, QoS, DSCP						
Streaming Prot	ocols	RTP/UDP, RTP/UDP multicas	t, RTP/RTSP/TCP, RTP/RTSP/F	HTTP/TCP, RTP/RTSP/HTTPS,	/TCP, HTTP, SRTP			
Device Manage	ment Protocols	SNMP v2c, SNMP v3						



PERIPHERALS								
Onboard Storage	e	microSD/microSDHC/microSDX card tested.	C slot – video speed class card require	d. Class V10 or better recommended. 1.5 TB				
USB Port		USB 2.0						
AUXILIARY I/C								
Audio Compress		G.711 PCM 8 kHz, Opus						
Audio Input/Out	put	Line level I/O						
External I/O Terr	minals	Alarm In, Alarm Out						
Microphone (Inc	loor Dome)	Optional Microphone accessory	sold separately for Indoor Dome Came	ra only				
MECHANICAL	_							
(DOME)		SURFACE MOUNT	IN-CEILING MOUNT	PENDANT MOUNT				
Dimensions		D 156 mm × H 116 mm; D 6.1" × H 4.6"	D 174 mm × H 165 mm; D 6.9" × H 6.5"	D 156 mm × H 161 mm; D 6.2" × H 6.3"				
Weight		0.81 kg	0.80 kg	1.07 kg				
Max. Ceiling Thi	ckness	N/A	25 mm (1.0")	N/A				
Dome Bubble		Polycarbonate						
Body		Polycarbonate						
Housing		Polycarbonate						
Finish		Plastic, injection molded, Pantone 427C						
Adjustment Ran	ge	360° pan, 30°-95° tilt (recommended), 8°-95° tilt (maximum), ±180° azimuth						
MECHANICAL	(BULLET)	3.4-10.5 MM	10.9-29 MM	4.4 - 9.3 MM				
Dimensions (L x W x H)	Camera with junction box	296 mm × 126 mm × 106 mm; 11.7" × 5.0" × 4.2"						
Weight		1.31 kg (1.78 kg with junction box)						
Body		Aluminum						
Housing		Aluminum						
Finish		Powder coat, close to Pantone 427C						
Adjustment Ran	ge	±175° pan, ±90° tilt, ±175° azimuth						
ELECTRICAL								
Power Source		PoE: IEEE 802.3af Class 3 compliant, 12VDC Aux (Available on Bullet only)						
IR Illuminator Behaviour	Dome		IR illuminator will turn off if the temperature is 60°C (140°F) or higher. The illuminator will operate at 50% power if the temperature is between 40°C (104°F) and 52 °C (117°F). Hysteresis: 2°C (3.6°F).					
Dellavioui	Bullet	IR illuminator will turn off if the	temperature is 60°C (140°F) or higher.					
RTC Battery Ba	ckup	3V manganese lithium						
D [Dome	10 W max (8 W with no IR or IR	disabled)					
PoE								



Bullet

1GB RAM, 512MB Flash

13 W max

ENVIRONMENTAL	INDOOR DOME	OUTDOOR DOME	BULLET					
Operating Temperature	-10°C to +60°C (14°F to 140°F)	-40°C to +60°C (-40°F to 140°F)	-40°C to +60°C (-40°F to 140°F)					
Storage Temperature	-10°C to +70°C (14°F to 158°F)							
Absolute Maximum Temperature	74°C (165°F) per NEMA TS2 (Temp.)	74°C (165°F) per NEMA TS2 (Temp.) para 2.2.7.2 - 2.2.7.7						
Humidity	0 - 95% non-condensing							
CERTIFICATIONS	INDOOR DOME	BULLET						
Certifications/Approvals	ertifications/Approvals UL, cUL, CE, UKCA, ROHS, RCM, NOM, KC, BIS							
Safety	UL/CSA/EN/IEC 62368-1, IEC 62471	UL/CSA/EN/IEC 62368-1, IEC 62471						
Environmental	IEC/EN 62262 Impact (IK 10), IEC 60529 IP52 rating	IEC/EN 62262 (IK 10), IEC 60529 IP66, IP67 rating, Type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27	IEC/EN 62262 (IK 10), IEC 60529 IP66, IP67 rating, Type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27					
Electromagnetic Emissions	FCC Part 15 Subpart B (Class B), IC ICES-003 (Class B), EN 55032 (Class B), EN 61000-6-3, EN 61000-3-2, EN 633-3							
Electromagnetic Immunity	EN 55035, EN 61000-6-1, EN 50130-4, EN 50121-4							
Warranty	5-year warranty							



Analytics Specifications

SUPPORTED ANALYTICS EVI	ENTS CONTROL OF THE C
Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type moves into the region of interest and then stays for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.
Object Appears or Enters Area	The event is triggered by each object that enters the region of interest. This event can be used to count objects.
Object Not Present in Area	The event is triggered when no objects are present in the region of interest.
Objects Enter Area	The event is triggered when the specified number of objects have entered the region of interest.
Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.
Object Stops in Area	The event is triggered when an object moves into a region of interest and then stops moving for the specified threshold time.
Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.
Tamper Detection	The event is triggered when the scene unexpectedly changes.

Analytic events for vehicle sub-types are not supported on the H6SL camera line.

SUPPORTED CLASSIFIED OB	JECT TYPES
Unlect Types in Ulitagor Mode	Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus Person
Object Types in Indoor Mode	Person
TEACH BY EXAMPLE	
Teach By Example	Yes, when used with Avigilon Control Center™ or Avigilon Unity Video
AVIGILON CONTROL CENTER	R (ACC) VERSIONS SUPPORTED FEATURES
	All supported analytic events with two types of classified objects: person or vehicle ¹ . Appearance search when paired with appropriate server hardware. Unusual Activity Detection. H.265 supported. Audio analytics. Crowd analytics.
ACC Enterprise Edition Version 7.2 or higher	All supported analytic events with people and vehicles and all vehicle sub-types as classified objects ² . Appearance search when paired with appropriate server hardware. Unusual Activity Detection. H.265 supported.

Analytics capabilities, including detection range, may vary by camera line. Consult the Avigilon Self-Learning Video Analytics Design Guide for details specific to the H6SL Camera Line.

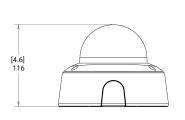


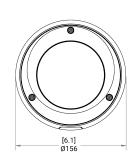
Outline Dimensions

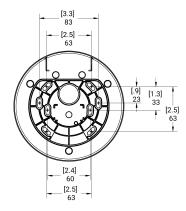
[X.X]	INCHES
Χ	MM

Dome Camera with Surface Mount

(H6SL Dome Camera + Provided Surface Mount)

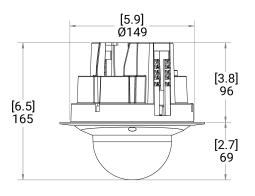


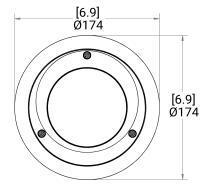




Dome Camera with In-ceiling Mount

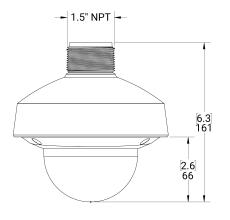
(H6SL Dome Camera + SLSPCIL-1001)

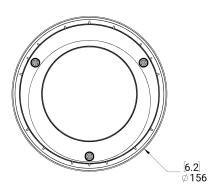




Dome Camera with NPT Adapter

(H6SL Dome Camera + H6SL-MT-NPTA1)

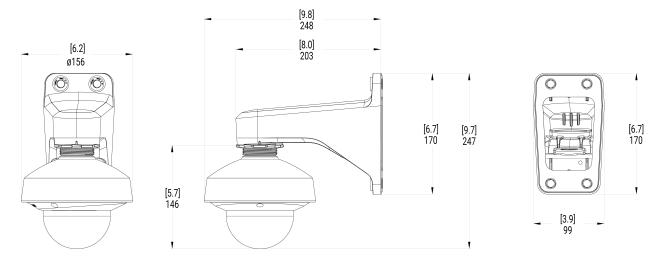




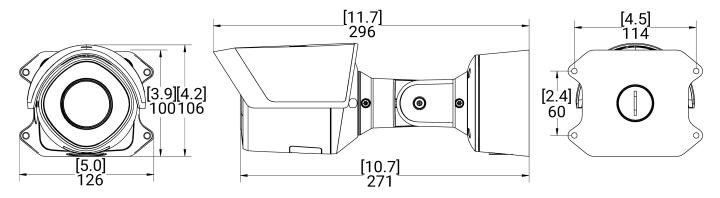


Dome Camera with NPT Adapter and Pendant Wall Mount

(H6SL Dome Camera + H6SL-MT-NPTA1 + WLMT-1021)

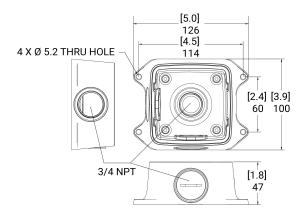


Bullet Camera



Bullet Junction Box

(Provided With Camera)





Ordering Information

Bullet Camera

MODEL NUMBER	MP	WDR	ANALYTICS	LENS	IR	IP66/IP67, TYPE4X	SMARTCODEC	LIGHTCATCHER™ TECHNOLOGY
2.0C-H6SL-B01-IR	2.0	✓	√	3.4-10.5 mm	✓	✓	✓	√
3.0C-H6SL-B01-IR	3.0	✓	✓	3.4-10.5 mm	✓	✓	✓	√
3.0C-H6SL-B02-IR	3.0	✓	✓	10.9-29 mm	✓	✓	✓	√
5.0C-H6SL-B01-IR	5.0	✓	✓	3.4-10.5 mm	✓	✓	✓	√
5.0C-H6SL-B02-IR	5.0	✓	✓	10.9-29 mm	✓	✓	✓	✓
8.0C-H6SL-B01-IR	8.0	✓	✓	4.4-9.3 mm	✓	✓	✓	✓

Dome Camera

MODEL NUMBER	MP	WDR	ANALYTICS	LENS	IR	IP66/IP67, TYPE4X	SMARTCODEC	LIGHTCATCHER™ TECHNOLOGY
2.0C-H6SL-D1	2.0	✓	✓	3.4-10.5 mm			✓	✓
2.0C-H6SL-D1-IR	2.0	√	✓	3.4-10.5 mm	✓		✓	✓
2.0C-H6SL-D01-IR	2.0	✓	✓	3.4-10.5 mm	✓	✓	✓	√
3.0C-H6SL-D1	3.0	✓	✓	3.4-10.5 mm			✓	√
3.0C-H6SL-D1-IR	3.0	✓	✓	3.4-10.5 mm	✓		✓	√
3.0C-H6SL-D01-IR	3.0	✓	✓	3.4-10.5 mm	✓	✓	✓	√
5.0C-H6SL-D1	5.0	✓	✓	3.4-10.5 mm			✓	√
5.0C-H6SL-D1-IR	5.0	✓	✓	3.4-10.5 mm	✓		✓	√
5.0C-H6SL-D01-IR	5.0	✓	✓	3.4-10.5 mm	✓	✓	✓	√
8.0C-H6SL-D01-IR	8.0	√	✓	4.4-9.3 mm	✓	✓	√	√

Accessories

PART NUMBER	DESCRIPTION
WLMT-1021	Wall Mount Arm for 1.5" NPT Pendant
PLMT-1001	Pole Mount Adapter for WLMT-1021 and H6SL Bullet Camera
CRNMT-1001	Corner Mount for WLMT-1021 and H6SL Bullet Camera
USB-AC56-NA-MSI	USB WiFi Adapter Install Kit (North America)
USB-AC56-EU-MSI	USB WiFi Adapter Install Kit (Europe)
SLSPCIL-1001	In-ceiling mounting adapter for H6SL Dome Camera
H6SL-MT-NPTA1	Pendant NPT adapter for H6SL Dome Camera
DCLPNL-1001	Metal ceiling panel for suspended ceiling installations
H6SL-D0-SHLD1	xWeathershield for H6SL Dome Camera
ACMICR-1001	Microphone accessory for Indoor H6SL Dome Camera
H6SL-DD-CLER1	Clear lower dome for H6SL Outdoor Dome Camera
H6SL-DD-SM0K1	Smoked lower dome for H6SL Outdoor Dome Camera
H6SL-DI-CLER1	Clear lower dome for H6SL Indoor Dome Camera
H6SL-DI-SM0K1	Smoked lower dome for H6SL Indoor Dome Camera
CNCVR-1001	Adapter 3/4 inch conduit for H6SL Dome Camera, 5-pack



Support

Learn more and find additional documentation at avigilon.com or email sales@avigilon.com for specific product support.





Feb 2025 | Rev 16

© 2025, Motorola Solutions, Inc. 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. AVIGILON, the AVIGILON logo, AVIGILON CONTROL CENTER, ACC, HDSM SmartCodec and LIGHTCATCHER are trademarks of Avigilon Corporation. The absence of the symbols ™ and ® in proximity to each trademark in this document or at all is not a disclaimer of ownership of the related trademark. All other trademarks are the property of their respective owners.

