

Avigilon H4 License Plate Capture Camera Kit

Preliminary Specifications – Subject to Change

August 1, 2018

General Specifications

	H4 License Plate Capture Camera Kit
Maximum Capture Speed	80 kph (50 mph)
Minimum Illumination	0 lux
IR Illumination	850nm, continuous, field adjustable angle
Maximum IR Illumination Distance	Single Lane: 30m (100 feet), Dual Lane: 12m (40 feet)
Operating Temperature Range	-30°C (-22°F) to 50°C (122°F)
Cold Start Delay	Up to 1.5 hours
Humidity	0 - 95% non-condensing

Camera Specifications

The following are the specifications for the camera, 3.0C-HD-LP-B1.

Image Performance	
Image Sensor	1/2.8" progressive scan CMOS
Aspect Ratio	4:3
Active Pixels	3MP: 2048 x 1536
Imaging Area	5.12 mm x 3.84 mm; 0.202" x 0.151"
Maximum Image Rate	30 fps
3D Noise Reduction Filter	Yes

Lens	
Lens	4.7 – 84.6mm, F1.6, P-Iris, remote focus and zoom
Angle of View	3.5° – 59°

Image Control	
Video Compression	H.264 (MPEG-4 Part 10/AVC), Motion JPEG, HDSM SmartCodec Technology
Streaming	Multi-stream H.264 and Motion JPEG
Bandwidth Management	HDSM
Motion Detection Selectable sensitivity and threshold	Motion Detection Selectable sensitivity and threshold
Iris Control Automatic, Manual	Iris Control Automatic, Manual
Day/Night Control Automatic, Manual	Day/Night Control Automatic, Manual
Flicker Control 50 Hz, 60 Hz	Flicker Control 50 Hz, 60 Hz
White Balance Automatic, Manual	White Balance Automatic, Manual
Backlight Compensation Adjustable	Backlight Compensation Adjustable
Privacy Zones Up to 64 zones	Privacy Zones Up to 64 zones

Audio Compression Method	G.711 PCM 8 kHz
Audio Input/Output	Line level input/output, A/V mini-jack (3.5 mm)
External I/O Terminals	Alarm In, Alarm Out
USB Port	USB 2.0 Micro

Network	
Network	100BASE-TX
Cabling Type	CAT5
Connector	RJ-45
ONVIF	ONVIF Profile S
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication
Protocol	IPv6, 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

Mechanical	
Dimensions	168 mm x 76mm x 67mm; 6.6" x 3.0" x 2.6"
Weight	0.62 kg (1.4 lbs)
Camera Mount	1/4"-20 UNC (top and bottom)
Onboard Storage	SD/SDHC/SDXC slot – minimum class 4; class 6 or better recommended

Electrical	
Power Consumption	8 W
Power Source	VDC: 12 V +/- 10%, 8 W min PoE: IEEE802.3af Class 3 compliant VAC: 24 V +/- 10%, 12 VA min
Power Connector	2-pin terminal block
RTC Backup Battery	3V manganese lithium

Environmental	
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)

Certifications	
Certifications	CE, ROHS, WEEE, RCM
Safety	UL 60950-1, CSA 60950-1, IEC/EN 60950-1
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 61000-3-3
Electromagnetic Immunity	EN 55024, EN 61000-6-1

Enclosure Specifications

The following are the specifications for the camera, ES-HD-LP-HS.

Mechanical	
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Dimensions (W x H x L)	176 mm x 160mm x 514 mm (6.9" x 6.3" x 20.2")
Internal Usable Area (W x H x L)	100 mm x 70 mm x 250 mm (4.6" x 2.7" x 9.8")
Weight	3.1 kg (6.6 lbs)
Window Material	Glass
Finish	RAL 9002

Electrical	
Power Consumption	25W
Power Source	IEEE 802.3at Class 4 PoE+
Heater	Electronically controlled, Ton 20°C±2°C (68°F±4°F), Toff 23°C±2°C (73.4°F±4°F)

Certifications	
Certifications	CE, ROHS
Electromagnetic Emissions	EN 55032, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3
Electromagnetic Immunity	EN 50130-4
Environmental	IP 66, Resistant to 1,000 hours of salt fog testing (ISO 9227)

IR Illuminator Specifications

The following are the specifications for the IR illuminator of ES-HD-IR-IP6.

Mechanical	
Dimensions (W x H x L)	100 x 135 x 66mm (4" x 5" x 2.5")
Weight	950g (2.1lbs)
Finish	Black
CAT5 Cable Length	2.5m included. Female to female CAT5 adapter included.
Bracket	Included, for mounting to ES-HD-LP-HS.

Illuminator	
Wavelength	850nm
Beam Angle	User adjustable lenses included: 35° x 10° (default), 60° x 25° or 10° circular.

Electrical	
Power Consumption	25W
Power Source	IEEE 802.3at Class 4 PoE+

Certifications	
Certifications	UL, cUL, CE, ROHS, VCCI
Safety	UL 1598, UL 2108, UL 8750, CSA C22.2 No. 250.0, EN 60598-1, EN 60598-2-1, EN 62471 (Risk Group 2)
Electromagnetic Emissions	FCC Part 15 Subpart B Class B, EN 55015
Electromagnetic Immunity	FCC Part 15 Subpart B Class B, EN 61547
Environmental	IP 66

Ordering Information

H4 License Plate Capture Kit

Order one of each of the following parts for an H4 License Plate Capture Camera

Model No.	Description
3.0C-HD-LP-B1	Box camera, 3.0 MP, 4.7-84.6mm f/1.6 lens, with visible light blocker
ES-HD-LP-HS	Standard format enclosure with heater, sunshield and PoE passthrough for a camera. PoE+ powers the camera enclosure and camera using one Ethernet connection.
ES-HD-IR-IP6	IR illuminator, PoE+, Outdoor, included lens option for 60°, 35°, or 10° horizontal coverage. Included mounting adapter to ES-HD-LP-HS.

Mounting Adapters

The following are compatible mounting adapters for use with the ES-HD-LP-HS enclosure.

Model No.	Description
ES-HD-MNT-PAR	Pedestal and ceiling mount for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG or ES-HD-LP-HS enclosure.
ES-HD-MNT-POLE-LG	Large pole mount for pole diameter 210mm (8.2 in) to 225mm (8.85 in). Compatible with wall arm included with for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG or ES-HD-LP-HS enclosures when used in conjunction with ES-HD-MNT-PLATE.
ES-HD-MNT-POLE-MD	Medium pole mount for pole diameter 80mm (3 in) to 150mm (5.9 in). Compatible with wall arm included with for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG or ES-HD-LP-HS enclosures when used in conjunction with ES-HD-MNT-PLATE. Up to two mounting positions.
ES-HD-MNT-POLE-SM	Small pole mount for pole diameter 60mm (2.5 in) to 110mm (4.3 in). Compatible with wall arm included with for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG or ES-HD-LP-HS enclosures Up to two mounting positions.
ES-HD-MNT-PLATE	Wall reinforcing wall plate, compatible with wall arm included with for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG or ES-HD-LP-HS enclosures.
ES-HD-MNT-CORNER	Corner mount adapter. Compatible with wall arm included with for ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG or ES-HD-LP-HS enclosures.