ONCAM C-12 OUTDOOR PLUS

ONCAM C-SERIES KEY FEATURES

INDUSTRY LEADING FRAME RATES

Capture every movement in sharp detail with market leading 55 fps at full 9MP resolution or maintain your chosen frame rate up to 30 fps on primary stream with 3 other streams running. Alternatively, experience best in class performance of 25 fps with TrueDetail HDR.

STREAMLITE COMPRESSION TECHNOLOGY

Lower bandwidth and storage by an average of 50% or more on both H.264 and H.265, and over 90% when there is no motion and Dynamic FPS is enabled. Integrated VMS / NVR partners have access to StreamLite+, and can achieve an additional 20% thanks to ColorMap Compression⁵.

TRUEDETAIL HDR TECHNOLOGY

Reveal the hidden details in both dark and bright areas of the same scene. Correctly expose every detail with dual concurrent exposures.

ADVANCED LIGHT MANAGEMENT TECHNOLOGY

Dynamically manage the available light to optimize image quality to produce clearer, full-color, lower noise videos. Maintain the sharpness of static or moving objects in challenging low and mixed light conditions.

MULTI-MODE

Simultaneously stream up to four different views from a choice of five (inc. dewarped views)⁶

PLUS BOARD FEATURES

- 8-28 VDC support
- Alarm I/O support x2 in x1 out



C12-OPC1-O

FEATURE-RICH SURVEILLANCE

- Powerful, robust and feature-rich 12MP camera, built upon Oncam's expertise in 360-degree IP video technology
- Crisp images in tough external conditions
- IP66, IP67, IP68, IP69K and IK10 rated, offering protection in harsh environments and against vandalism.
- Edge dewarping for additional streaming flexibility (Fisheye only, Panoramic+ only or Multi-Mode⁶)
- Plus Board features make the camera perfect for more demanding installations
- Range of mounting options and accessories for added versatility, including Panoramic+ Tilt Adaptor and rainguard
- Optional Heater Module for cold starting in temperatures as low as -40°C / -40°F
- Market leading 3D dewarping software supported by major VMS / NVR partners
- 5-year warranty
- LED Lamp support x2
- Audio support





		Fishovo etroem 1	55 fpc1:
Technical S	pecifications	Fisheye stream 1 (Primary - 360° Fisheye Stream	55 fps¹: 2992 x 2992 (9.0 MP, max resolution) 30 fps when multi-streaming²
Field of view	190° Harizantal 190° Vartical	H.264/H.265)	
Image sensor	180° Horizontal, 180° Vertical 12.4MP (approx.) CMOS sensor	Up to 60 fps¹: 2800 x 2800 (7.8 MP) 2304 x 2304 (5.3 MP)	2800 x 2800 (7.8 MP) 2304 x 2304 (5.3 MP)
Lens	180°, 1.6mm, F 2.0, all-glass, fixed focus, fixed Iris, fisheye		1920 x 1920 (3.7 MP) 1440 x 1440 (2.1 MP) 992 x 992 (0.98 MP)
Day/Night IR cut filter	Automatic, manual		512 x 512 (0.26 MP) ³
Minimum illumination	Color: 0.1 lux at 50 IRE F/2.0 Mono: 0.1 lux at 50 IRE F/2.0	Fisheye stream 2 ⁴ (Secondary - 360° Fisheye Stream	Up to 15 fps: 2992 x 2992 (9.0 MP, max resolution)
Video motion detection	16 configurable polygonal regions	H.264/H.265)	2800 x 2800 (7.8 MP) 2304 x 2304 (5.3 MP) 1920 x 1920 (3.7 MP)
External alarm	2x contact input 1x contact ouput		1440 x 1440 (2.1 MP) 992 x 992 (0.98 MP)
External LED control	2x contact output	Fish and store and O	512 x 512 (0.26 MP) ³
Audio input	Audio IN through screw terminal connections, G.711/AAC codec	Fisheye stream 3 (Tertiary - 360° Fisheye Stream H.264/H.265)	Up to 30 fps: 1920 x 1920 (3.7 MP, max resolution) 1440 x 1440 (2.1 MP)
Audio input level	MIC input level range is approximately 5 mV to 50 mV	,	992 x 992 (0.98 MP) 512 x 512 (0.26 MP) ³
Advanced event management	Configurable Triggers: Motion regions, External contact input, Network message, Link down Configurable Actions: External	Fisheye stream 4 Up to 10 fps: (Low resolution - 512 x 512 (0.26 MP, max resolution - 360° Fisheye Stream	Up to 10 fps: 512 x 512 (0.26 MP, max resolution) ³
	contact output, SMTP (snapshot), Local recording, LED output	H.264/H.265/MJPEG) Camera modes ⁶	Fisheye only, Panoramic+ only, Multi- Mode
Networking	IPv4, TCP/IP, UDP, HTTP, DHCP, DNS, NTP, SMTP, RTP, RTSP, WEB RTC, RTCP, HTTPS, WS-Discovery, TLS, ARP and SNMP v2c or V3	Multi-stream capacity	4 multiple streams can run concurrently. Primary stream maintains a frame rate of 30 fps ²
Privacy	5 configurable privacy regions/ masks	to 800 x 320 Corridor+ (ceiling split corridor 2432 x 1520 to 640 x 400	Panoramic+ (180° view): 3040 x 1216 to 800 x 320
SD card	Built in MicroSD card slot, up to 512GB (FAT32), minimum class 10		Corridor+ (ceiling split corridor view): 2432 x 1520 to 640 x 400 T Corridor+ (three-way split corridor
White balance Range	Auto White Balance (Range = approx. 2,500 K ~ 8,000 K)		view): 3456 x 1440 to 768 x 320 VCam (up to 4): 1280 x 720 to 576 x
Security	Security Password protection WS-Username token RTSP authentication HTTP Digest authentication Authorization levels Brute force protection IP address filtering User access log Encrypted TLS 1.2 HTTPS encryption	Image settings	Brightness, contrast, saturation, sharpness, exposure compensation, exposure priority, imaging preference, text overlay, 180° rotate, multiple color spaces
		Image enhancement	TrueDetail HDR up to 25 fps. TrueDetail HDR maximum dynamic range 120dB
	IEEE 802.1x Authentication EAP-MD5, EAP-TLS, EAP-PEAP	PTZ functionality	10x zoom with Oncam 3D client-side dewarping software
Video Frame rate	max 55 fps at full resolution ¹ or 25	VMS/NVR support	ONVIF Profile S, G and T conformant. Contact Oncam for the up-to-date
	fps with TrueDetail HDR	Web browser	VMS compatibility list Supported minimum browsers versions:
Video compression	H.264, H.265, MJPEG and VP8 (WEB RTC)	compatibility	Chrome 95, Firefox 94, Edge 95 and Safari 14.1.1
Smart compression	StreamLite H.264 and H.265 StreamLite+ H.264 and H.265 (with ColorMap compression ⁵)		

¹ High Speed Mode⁶, single stream only, set to 60 fps, exposure priority set to frame rate, 60Hz. Max achievable fps is dependant on VMS support ² Maintain 30 fps ±5%. 25 fps in TrueDetail HDR Mode, 60Hz ³ MJPEG at 10 fps, <5,000 kbps supported ⁴Resolution and video source view shared with Primary Stream in TrueDetail HDR Mode ⁵Dependent on VMS support

⁶ Firmware version 2.0.x and above required

Unicast	Up to 20 simultaneous users depending on the resolution settings
Multicast	Supported for all streams (Audio, Video and Metadata ⁶)
Bit rate control	Fixed Quality (Capped Bitrate) or Constant Bit Rate
Electrical	
Ports	RJ45 for 100/1000BASE-Tx
Power input	Power over Ethernet (PoE), IEEE standard 802.3af. Screw Terminals, 8-28 VDC, 15W LPS, NEC Class 2 power supply.
Power consumption (maximum)	< 12.95W (IEEE 802.3af, PoE 48VDC) < 12.95W (DC 8-28VDC)
Mechanical	
Camera mount	Surface , Pendant and Panoramic+ Tilt
Weight	1.00 kg (2.20 lbs)
Dimensions (D x W x H)	150 x 150 x 88 mm (5.9 x 5.9 x 3.4 in)
Environmental	
Operating temperature range	-40° C to +55° C (-40 to +131° F)
Cold start temperature range	-20° C to +55° C (-4 to +131° F)

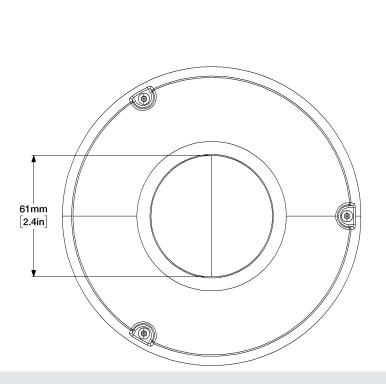
Cold start temperature range with optional heater (CA-GHM1-O)	-40° C to +55° C (-40 to +131° F)
Operating Humidity	up to 95% Relative Humidity non- condensing
Ingress protection	IP66, IP67, IP68 and IP69K
Impact resistance	IK10
Certifications	

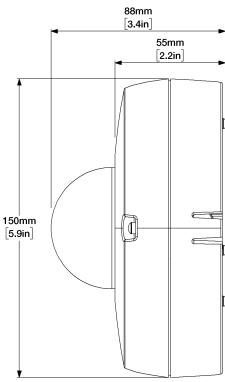
Approvals IEEE802.3af CE, UKCA AS/NZS CISPR 32: 2015 AMD 1: 2020 EN 55032:2015/A11:2020, Class B EN 55035: 2017/A11: 2020 EN 61000-6-3:2007+A1: 2011/ AC:2012, EN50130-4: 2011+A1:2014 FCC CFR Title 47 Part 15 Subpart B: 2020 Class B ICES-003 Issue 7:2020, Class B ANSI C63.4-2014, ANSI C63.4a-2017, CAN/CSA-CISPR 32:17 UL/cUL 62368-1, EN 62368-1:2014/A11:2017 UL60950-part 22 RoHS REACH IP66, IP67, IP68, IP69K and IK10

BIS IS13252(Part1)/IEC 60950-1

NEMA Type 4 & 6

Dimensions





Optional Accessories

Outdoor Pendant Kit

SKU Number

CA-OPK1-O

Pendant Mount Adaptor Sunshield







SKU Number CA-GHM1-O



Thread	1½" NPT
Tilleau	Male
Construction	ADC12 Aluminum
Form factor	Low profile
Installation	Pendant mount
Weight	0.20 kg (0.44 lb)
Dimensions	Ø145 mm (5.7 in)

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tion	ADC12 Al

Dimensions	Ø170 mm (6.7 in)
Weight	0.26 kg (0.57 lb)
Installation	Pendant mount
Construction	ADC12 Aluminum

Installation	Base of camera module
Operating temperature	As low as -40°C/°F
Functionality	Automatic on/off
Weight	0.05 kg (0.11 lb)
Dimensions	68 mm (2.7in)

Assembled

Pole Mount Bracket

Wall Mount Bracket

Corner Wall Bracket





SKU Number	CA-OPB1-O
Thread	11/2" NPT
Tilleau	Female
Construction	Aluminum
Weight	0.61 kg (1.34 lbs)
Dimensions (D x W x H)	265 x 130 x 114 mm (10.4 x 5.1 x 4.5 in)

CA-OWB1-O
1½" NPT
Female
Aluminum
0.41 kg (0.9 lb)
150 x 94 x 114 mm (5.9 x 3.7 x 4.5 in)

lbs)
14 mm l.5 in)
14 mm

Panoramic+ Tilt Adaptor⁶

Panoramic+ Rain Guard⁶

Panoramic+ Pendant Mount Adaptor⁶







SKU Number	CA-OTA1-O	SKU Number	CA-ORG1-O
Angle	0° to 90°		
	1½" NPT		
Thread	Male to mounting bracket, Female to pendant mount	Mounting	Surface or Pendant
Construction	Aluminum	Construction	Polymer
Weight	0.28 kg (0.61 lbs)	Weight	0.06 kg (0.13 lb)
Dimensions (D x W x H)	57 x 70 x 116 mm (2.2 x 2.8 x 4.6 in)	Dimensions (D x W x H)	114 x 170 x 180 mm (4.5 x 6.7 x 7.1 in)

SKU Number	CA-OPM1-O
	1½" NPT
Thread	Male
Construction	ADC12 Aluminum
Form factor	Low profile
Installation	Pendant mount
Weight	0.20 kg (0.44 lb)
Dimensions	Ø145 mm (5.7 in)

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