



C-12 INDOOR 12MP

360° Fisheye Panoramic

C12-IEC1-0

HIGH SPEED 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 video 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 Compression**⁵.

HDR 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

Dynamically manage the available light to optimize image quality to **produce clearer**, **full-color**, **lower noise videos**. Maintain the sharpness of moving or static objects even 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

COMPACT SURVEILLANCE

- Powerful, compact camera with a diameter of only 92mm, built upon Oncam's expertise in 360-degree IP video technology
- Multi-core CPU, high sensitivity 12MP sensor, and Oncam's latest cutting-edge technologies for detailed crisp images
- Edge dewarping for additional streaming flexibility (Fisheye only, Panoramic+ only or Multi-Mode⁶)
- Clean, modular low-profile design for quick, simple and intuitive installation
- Support for both terminated RJ45 and unterminated cabling, with punch down connectivity option
- Variety of mounting options, including Recessed, Pendant and Panoramic+ Tilt Mount
- Market leading 3D dewarping software supported by major VMS / NVR partners
- 5-year warranty



Technical	Specifications	Fisheye stream 1 (Primary - 360° Fisheye Stream	Up to 55 fps ¹ : 2992 x 2992 (9.0 MP, max resolution)
General		H.264/H.265)	30 fps when multi-streaming ²
Field of view	180° Horizontal, 180° Vertical		Up to 60 fps ¹ :
Image sensor	12,4MP (approx.) CMOS sensor		2800 x 2800 (7.8 MP)
Lens	180°, 1.6mm, F 2.0, all-glass, fixed focus, fixed Iris, fisheye		2304 x 2304 (5.3 MP) 1920 x 1920 (3.7 MP)
Day/Night IR cut filter	Automatic, manual		1440 x 1440 (2.1 MP) 992 x 992 (0.98 MP) 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°	Up to 15 fps:
Video motion detection	16 configurable polygonal regions	Fisheye Stream H.264/H.265)	2992 x 2992 (9.0 MP, max resolution)
Analytics	Motion Region Detector, Tampering, Loitering Object Detector, Line Crossing./Counting, Region Object Detector, Object Tracking Only, Region Object Occupancy	n0-4/ n00)	2800 x 2800 (7.8 MP) 2304 x 2304 (5.3 MP) 1920 x 1920 (3.7 MP) 1440 x 1440 (2.1 MP) 992 x 992 (0.98 MP) 512 x 512 (0.26 MP) ³
Advanced event management	Configurable Triggers: Motion regions, Network message, Link	Fisheye stream 3	Up to 30 fps:
management	down Configurable Actions: SMTP (snapshot), Local recording	(Tertiary - 360° Fisheye Stream H.264/H.265)	1920 x 1920 (3.7 MP, max resolution) 1440 x 1440 (2.1 MP) 992 x 992 (0.98 MP)
Networking	IPv4, TCP/IP, UDP, HTTP, DHCP, DNS, NTP, SMTP, RTP, RTSP, RTCP,		512 x 512 (0.26 MP) ³
	WEB RTC, HTTPS, WS-Discovery, TLS, ARP and SNMP v2c or V3	Fisheye stream 4 (Low resolution - 360° Fisheye	Up to 10 fps: 512 x 512 (0.26 MP max resolution) ³
Privacy	5 configurable privacy regions/ masks	Stream H.264/H.265/	
SD card	Built in MicroSD card slot, up to 512GB (FAT32), minimum class 10 with AES256 File based encryption	MJPEG) Camera modes ⁶	Fisheye only, Panoramic+ only, Multi-Mode
White balance range	Auto White Balance (Range = approx. 2,500 K ~ 8,000 K)	Multi-stream capacity	4 multiple streams can run concurrently. Primary stream maintains a frame rate of 30 fps²
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	Dewarped views ⁶	Panoramic+ (180° view): 3040 x 1216 to 800 x 320 Corridor+ (ceiling split corridor view): 2432 x 1520 to 640 x 400 T Corridor+ (three-way split corridor view): 3456 x 1440 to 768 x 320 VCam (up to 4): 1280 x 720 to 576 x 432
\/*.1	HTTPS encryption IEEE 802.1x Authentication, EAP-MD5, EAP-TLS, EAP-PEAP	Image settings	Brightness, contrast, saturation, sharpness, exposure compensation, exposure priority, imaging preference, text overlay, 180° rotate,
Video Frame rate	may EE fac at full recolution		multiple color spaces
Video compression	max 55 fps at full resolution ¹ or 30 fps with TrueDetail HDR H.264, H.265, MJPEG and VP8 (WEB RTC)	Image enhancement	TrueDetail HDR up to 25 fps. TrueDetail HDR maximum dynamic range 120dB, Wide Dynamic Range image adjustment
Smart compression	StreamLite H.264 and H.265 StreamLite+ H.264 and H.265 (with ColorMap compression⁵)	PTZ functionality	10x zoom with Oncam 3D client- side dewarping software
		VMS/NVR support	ONVIF Profile G, M, S, T conformant. Contact Oncam for the up-to-date VMS compatibility list
		Web browser compatibility	Supported minimum browsers versions: Chrome 95, Firefox 94, Edge 95 and Safari 14.1.1



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Up to 20 simultaneous users Unicast depending on the resolution settings		Certific
Multicast	Supported for all streams (Video and Metadata ⁶)	IEEE802.3
Bit rate control	Fixed Quality (Capped Bitrate) or Constant Bit Rate	AS/NZS C
Electrical		
Ports	RJ45 for 100/1000BASE-Tx	EN 55032 Class B
Power input	Power over Ethernet (PoE), IEEE standard 802.3af	EN 55035 EN50130-
Power consumption (maximum)	> 12.95W (IEEE 802.3af, PoE 48VDC)	EN IEC 610
Mechanical		FCC CFR 1 Subpart B
Camera mount	Surface, Pendant , Recessed and Panoramic+ Tilt	ICES-003 ANSI C63.
Weight	0.308kg (0.68 lbs)	CAN/CSA
Dimensions (D x W x H)	92 x 92 x 51 mm (3.6 x 3.6 x 2.0 in.)	UL/cUL 62
		RoHS
Environmental		REACH
Operating	0 to +50° C (32 to +122° F)	RLACH
temperature range		IP40
Ingress protection	IP40	BIS IS1325

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CISPR 32: 2015 AMD 1: 2020

CE	UKCA
EN 55032:2015/A1:2020, Class B EN 55035:2017/A11:2020 EN50130-4:2011/A1:2014	BS EN 55032:2015 +A1:2020, Class B BS EN 55035:2017 +A11:2020 BS EN50130-4:2011 +A1:2014
EN IEC 61000-6-3:2021	

Title 47 Part 15 B: 2020 Class B

3 Issue 7:2020, Class B 3.4-2014,ANSI C63.4a-2017, A-CISPR 32:17

2368-1, EN 62368-1:2014/A11:2017

BIS IS13252(Part1)/ IEC 60950-1

Dimensions



¹High Speed Mode⁶, single stream only, set to 55 fps, exposure priority set to frame rate, 60Hz. Max achievable fps is dependant on VMS support

² Maintain 30 fps +/-5%, 60 Hz, 30 fps in TrueDetail HDR Mode

³ MJPEG at 10 fps, >5,000 kbps supported

⁴ Resolution and video source view shared with Primary Stream in TrueDetail HDR Mode

 $^{\scriptscriptstyle 5}$ Dependent on VMS support

⁶ Firmware version 2.0.x and above required



Optional Accessories

Indoor Recessed Mount

Indoor Pendant Mount



SKU Number	CA-IRM1-O	
Cut out	100mm (4 in.)	
Cable entry	Rear	
Retention	Spring clips	
Construction	Rear: ADC12 Aluminum	
Construction	Front: Polymer	
Plenum rated	UL2043	
Form factor	Low profile	
Installation	Ceiling	
Weight	0.186kg (0.41 lb)	
Depth	65 mm (2.55")	
Dimensions	Ø121 mm (4.76")	

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SKU Number	CA-IPM1-O
Thread	M2O & ¾" NPT Female
Construction	ADC12 Aluminum
Form factor	Low profile
Weight	0.080 kg (0.18 lb)
Height	90 mm (3.54")
Dimensions	Ø84 mm (3.31")

Panoramic+ Tilt Mount⁶



SKU Number	CA-ITM1-O
Angle	20° to 45°
Cable entry	Rear
Construction	Polymer
Installation	Wall
Weight	0.03 kg (0.07 lb)
Depth	44 mm (1.7")
Dimensions	Ø87 mm (3.25")

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