C-08 INDOOR 8MP

360° Fisheye Panoramic

C08-IEC1-O

HIGH SPEED FRAME RATES

Capture every movement in sharp detail with **60 fps at full 4.7MP** 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 **30 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].

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 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 8MP sensor, and Oncam's latest cutting-edge technologies for detailed crisp images
- Edge dewarping for additional streaming flexibility (Fisheye only, Panoramic+ only or Multi-Mode[6])
- 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

NDAA Compliant

ONVIF® | GMST

Technical Specifications

General

Field of view	180° Horizontal, 180° Vertical
Image sensor	8MP (approx.) CMOS sensor
Lens	180°, 1.6mm, F 2.0, all-glass, fixed focus, fixed Iris, fisheye
Day/Night IR cut filter	Automatic, manual
Minimum illumination	Color: 0.1 lux at 50 IRE F/2.0 Mono: 0.1 lux at 50 IRE F/2.0
Video motion detection	16 configurable polygonal regions
Analytics	Motion Region Detector, Tampering, Loitering Object Detector, Line Crossing./Counting, Region Object Detector, Object Tracking Only, Region Object Occupancy
Advanced event management	Configurable Triggers: Motion regions, Network message, Link down Configurable Actions: SMTP (snapshot), Local recording
Networking	IPv4, TCP/IP, UDP, HTTP, DHCP, DNS, NTP, SMTP, RTP, RTSP, RTCP, WEB RTC, HTTPS, WS-Discovery, TLS, ARP and SNMP v2c or V3
Privacy	5 configurable privacy regions/masks
SD card	Built in MicroSD card slot, up to 512GB (FAT32), minimum class 10 with AES256 File based encryption
White balance range	Auto White Balance (Range = approx. 2,500 K ~ 8,000 K)
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 IEEE 802.1x Authentication, EAP-MD5, EAP-TLS, EAP-PEAP

Video

Frame rate	max 60 fps at full resolution[1] or 30 fps with TrueDetail HDR
Video compression	H.264, H.265, MJPEG and VP8 (WEB RTC)
Smart compression	StreamLite H.264 and H.265 StreamLite+ H.264 and H.265 (with ColorMap compression[5])

Fisheye stream 1 (Primary – 360° Fisheye Stream H.264/H.265)	Up to 60 fps[1]: 2160 x 2160 (4.7 MP, max resolution) 30 fps when multi-streaming[2] 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]
Fisheye stream 2[4] (Secondary – 360° Fisheye Stream H.264/H.265)	Up to 15 fps: 2160 x 2160 (4.7 MP, max resolution) 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]
Fisheye stream 3 (Tertiary – 360° Fisheye Stream H.264/H.265)	Up to 30 fps: 1440 x 1440 (2.1 MP, max resolution) 992 x 992 (0.98 MP) 512 x 512 (0.26 MP)[3]
Fisheye stream 4 (Low resolution – 360° Fisheye Stream H.264/H.265/ MJPEG)	Up to 10 fps: 512 x 512 (0.26 MP max resolution)[3]
Camera modes[6]	Fisheye only, Panoramic+ only, Multi-Mode
Multi-stream capacity	4 multiple streams can run concurrently. Primary stream maintains a frame rate of 30 fps[2]
Dewarped views[6]	Panoramic+ (180° view): 2160 x 864 to 800 x 320 Corridor+ (ceiling split corridor view): 1728 x 1080 to 640 x 400 T Corridor+ (three-way split corridor view): 2592 x 1080 to 768 x 320 VCam (up to 4): 1280 x 720 to 576 x 432
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 30 fps. TrueDetail HDR maximum dynamic range 120dB, Wide Dynamic Range image adjustment
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

[1] High Speed Mode[6], 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%, 60 Hz, 30 fps in TrueDetail HDR Mode
[3] MJPEG at 10 fps, >5,000 kbps supported

Unicast	Up to 20 simultaneous users depending on the resolution settings
Multicast	Supported for all streams (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
Power consumption (maximum)	> 12.95W (IEEE 802.3af, PoE 48VDC)

Mechanical

Camera mount	Surface, Pendant , Recessed and Panoramic+ Tilt
Weight	0.308kg (0.68 lbs)
Dimensions (D x W x H)	92 x 92 x 51 mm (3.6 x 3.6 x 2.0 in.)

Environmental

Operating temperature range	0 to +50° C (32 to +122° F)
Ingress protection	IP40
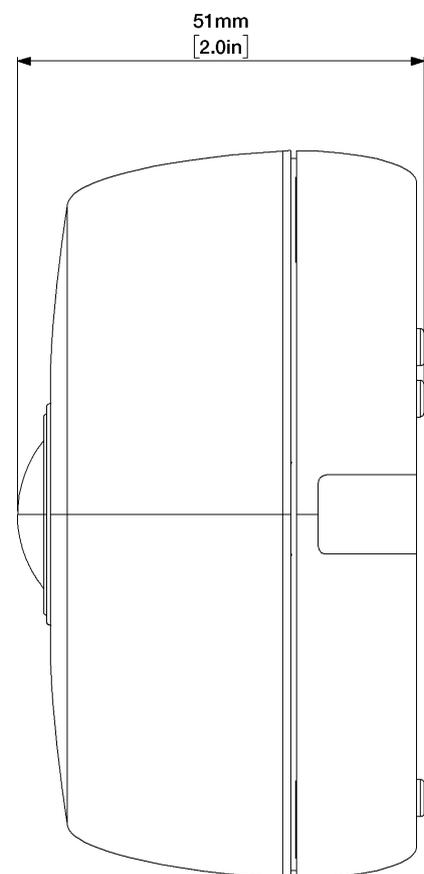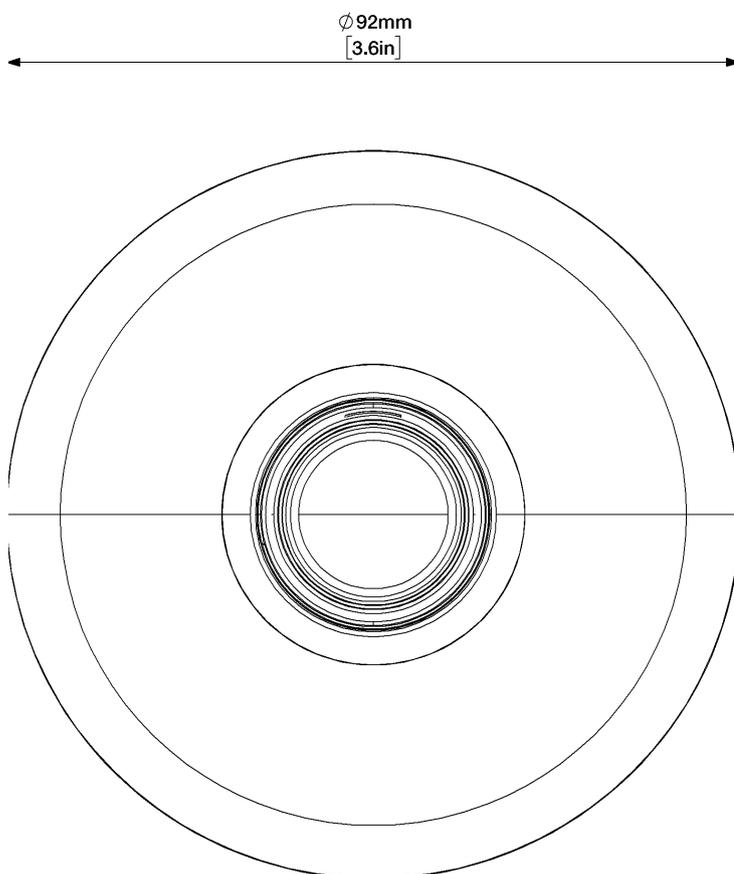
Certifications

IEEE802.3af

AS/NZS 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

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

RoHS

REACH

IP40

BIS IS13252(Part1)/ IEC 60950-1

Dimensions

∅92mm [3.6in]

51mm [2.0in]

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[4] Resolution and video source view shared with Primary Stream in TrueDetail HDR Mode
[5] Dependent on VMS support
[6] Firmware version 2.0.x and above required

Optional Accessories

Indoor Recessed Mount

SKU Number	CA-IRM1-O
Cut out	100mm (4 in.)
Cable entry	Rear
Retention	Spring clips
Construction	Rear: ADC12 Aluminum 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")

Indoor Pendant Mount

SKU Number	CA-IPM1-O
Thread	M20 & 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 Mount[6]

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")