





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.



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.



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 Compression⁵.



MULTI-MODE

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



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.





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

General

Field of view 180° Horizontal. 180° Vertical Image sensor 12,4MP (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

IPv4, TCP/IP, UDP, HTTP, DHCP. Networking

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)

Password protection Security 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 55 fps at full resolution¹ or 30 fps with TrueDetail HDR

Video H.264, H.265, MJPEG and compression VP8 (WEB RTC)

StreamLite H.264 and H.265 Smart

StreamLite+ H.264 and H.265 compression (with ColorMap compression⁵) Fisheye stream 1 (Primary - 360° Fisheve Stream

H.264/H.265)

Up to 55 fps1:

2992 x 2992 (9.0 MP, max

resolution)

30 fps when multi-streaming²

Up to 60 fps1:

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

Fisheye stream 24 (Secondary - 360° Fisheve Stream H.264/H.265)

Up to 15 fps:

2992 x 2992 (9.0 MP, max

resolution)

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

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) 992 x 992 (0.98 MP) 512 x 512 (0.26 MP)³

Fisheye stream 4 (Low resolution - 360° Fisheye Stream

Up to 10 fps:

512 x 512 (0.26 MP max resolution)3

H.264/H.265/ MJPEG)

Camera modes⁶ Fisheye only, Panoramic+ only,

Multi-Mode

Multi-stream capacity

4 multiple streams can run concurrently. Primary stream maintains a frame rate of 30 fps²

Dewarped views⁶

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

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,

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



Up to 20 simultaneous users Unicast depending on the resolution

settings

Supported for all streams Multicast

(Video and Metadata⁶)

Fixed Quality (Capped Bitrate) Bit rate control

or Constant Bit Rate

Electrical

Ports RJ45 for 100/1000BASE-Tx

Power input Power over Ethernet (PoE), IEEE

standard 802.3af

Power consumption > 12.95W (IEEE 802.3af, PoE

(maximum) 48VDC)

Mechanical

Camera mount Surface, Pendant, Recessed and

Panoramic+ Tilt

Weight 0.308kg (0.68 lbs)

Dimensions 92 x 92 x 51 mm $(D \times W \times H)$ (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, BS EN 55032:2015 +A1:2020, Class B Class B

EN 55035:2017/A11:2020 BS EN 55035:2017 +A11:2020 EN50130-4:2011/A1:2014 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

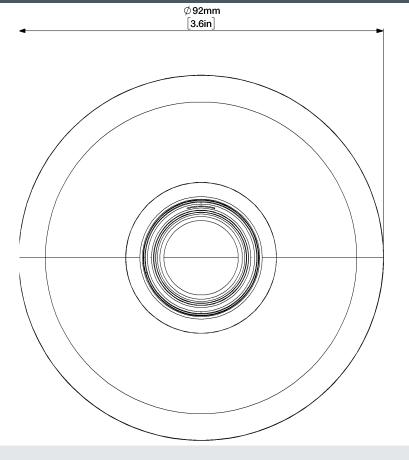
RoHS

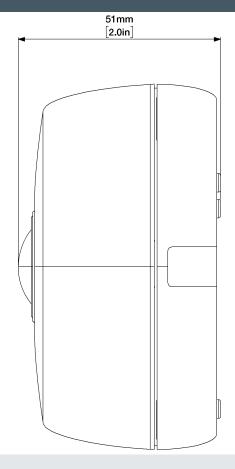
REACH

IP40

BIS IS13252(Part1)/ IEC 60950-1

Dimensions





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

⁴Resolution 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

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

 $$\operatorname{M20}\ \&\ 3\!\!\%$ NPT Thread

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")