

# ONCAM C-12 INDOOR

## ONCAM C-12 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 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<sup>5</sup>**.

### TRUEDETAIL HDR TECHNOLOGY

**Reveal the lost 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 even in challenging low and mixed light conditions.



C12-IEC1-0

### 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
- Clean, modular low profile design for quick, simple and intuitive installation
- Support for both terminated and unterminated RJ45 cabling, with punch down connectivity option
- Variety of mounting options
- Market leading 3D dewarping software supported by major VMS / NVR partners
- 5-year warranty

# Technical Specifications

## General

<b>Field of view</b>	180° Horizontal, 180° Vertical
<b>Image sensor</b>	12.4MP (approx.) CMOS sensor
<b>Lens</b>	180°, all-glass, fixed focus fisheye
<b>Day/Night IR cut filter</b>	Automatic, manual
<b>Minimum illumination</b>	0.1 lux at 50 IRE F/2.0
<b>Video motion detection</b>	16 configurable polygonal regions
<b>Advanced event management</b>	Configurable Triggers: Motion regions, Network message, Link down  Configurable Actions: SMTP (snapshot), Local recording
<b>Networking</b>	IPv4, TCP/IP, UDP, HTTP, DHCP, DNS, NTP, SMTP, RTP, RTSP, RTCP, WEB RTC, HTTPS, WS-Discovery, TLS, ARP and SNMP v2c or V3
<b>Privacy</b>	5 configurable privacy regions/masks
<b>SD card</b>	Built in MicroSD card slot, up to 512GB (FAT32), minimum class 10
<b>White balance range</b>	Auto White Balance (Range = approx. 2,500 K ~ 8,000 K)
<b>Security</b>	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

<b>Frame rate</b>	max 55 fps at full resolution <sup>1</sup> or 25 fps with TrueDetail HDR
<b>Video compression</b>	H.264, H.265, MJPEG and VP8 (WEB RTC)
<b>Smart compression</b>	StreamLite H.264 and H.265 StreamLite+ H.264 and H.265 (with ColorMap compression <sup>5</sup> )

<b>Fisheye stream 1</b> (Primary - 360° Fisheye Stream H.264/H.265)	55 fps <sup>1</sup> : 2992 x 2992 (9.0 MP, max resolution) 30 fps when multi-streaming <sup>2</sup>  Up to 60 fps <sup>1</sup> : 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) <sup>3</sup>
<b>Fisheye stream 2<sup>4</sup></b> (Secondary - 360° Fisheye 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) <sup>3</sup>
<b>Fisheye stream 3</b> (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) <sup>3</sup>
<b>Fisheye stream 4</b> (Low resolution - 360° Fisheye Stream H.264/H.265/MJPEG)	Up to 10 fps: 512 x 512 (0.26 MP max resolution) <sup>3</sup>
<b>Multi-stream capacity</b>	4 multiple streams can run concurrently. Fisheye stream 1 maintains a frame rate of 30 fps <sup>2</sup>
<b>Image settings</b>	Brightness, contrast, saturation, sharpness, exposure compensation, exposure priority, imaging preference, text overlay, 180° rotate, multiple color spaces
<b>Image enhancement</b>	TrueDetail HDR up to 25 fps. TrueDetail HDR maximum dynamic range 120dB
<b>PTZ functionality</b>	10x zoom with Oncam 3D client-side dewarping software
<b>VMS/NVR support</b>	ONVIF Profile S, G and T conformant. Contact Oncam for the up-to-date VMS compatibility list
<b>Web browser compatibility</b>	Supported minimum browsers versions: Chrome 84, Firefox 79, Edge 84 and Safari 13.1
<b>Unicast</b>	Up to 20 simultaneous users depending on the resolution settings
<b>Multicast</b>	Supported for all streams
<b>Bit rate control</b>	Fixed Quality (Capped Bitrate) or Constant Bit Rate

<sup>1</sup> Single stream only, exposure priority set to frame rate, 60Hz  
Max achievable fps is dependant on VMS support

<sup>2</sup> Maintain 30 fps ±5%. 25 fps in TrueDetail HDR Mode, 60Hz

<sup>3</sup> MJPEG at 10 fps, <5,000 kbps supported

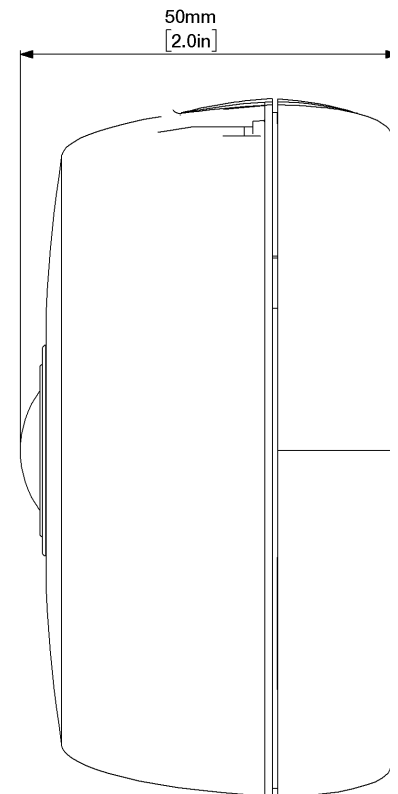
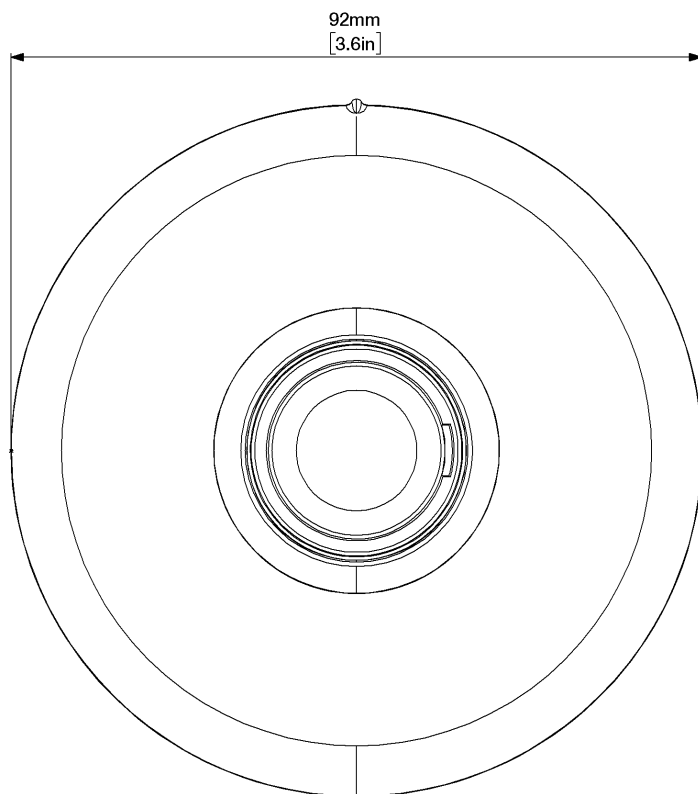
<sup>4</sup> Resolution shared with Fisheye stream 1 in TrueDetail HDR Mode

<sup>5</sup>Dependent on VMS support

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 and Recessed
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	
Approvals	IEEE802.3af
	CE
	AS/NZS CISPR 32:2015
	EN 55032: 2015+AC:2016, Class B EN 55035:2017
	FCC
	ICES-003 Issue 6-2016, Class B
	UL/cUL 62368-1
	RoHS
	REACH
	IP40
BIS IS13252(Part1), IEC 60950-1	

## Dimensions



# Optional Accessories

## Indoor Recessed Mount



## Indoor Pendant Mount



<b>SKU Number</b>	CA-IRM1-O
<b>Cut out</b>	100mm (4 in.)
<b>Cable entry</b>	Rear
<b>Retention</b>	Spring clips
<b>Construction</b>	Rear: ADC12 Aluminum Front: Polymer
<b>Plenum rated</b>	UL2043
<b>Form factor</b>	Low profile
<b>Installation</b>	Ceiling
<b>Weight</b>	0.186kg (0.41 lb)
<b>Depth</b>	65mm (2.55")
<b>Dimensions</b>	Ø121mm (4.76")

<b>SKU Number</b>	CA-IPM1-O
<b>Thread</b>	M20 & ¾" NPT Female
<b>Construction</b>	ADC12 Aluminum
<b>Form factor</b>	Low profile
<b>Weight</b>	0.080kg (0.18 lb)
<b>Height</b>	90mm (3.54")
<b>Dimensions</b>	Ø84mm (3.31")