ONCAM C-12
INDOOR

VERINT.

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 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 **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.

MULTI-MODE

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

VRT-12-CID

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-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

Onvif® | **GST**

ONCAM

Technical Specifications

General

Field of view	180° Horizontal, 180° Vertical
Image sensor	12.4MP (approx.) CMOS sensor
Lens	180°, all-glass, fixed focus fisheye
Day/Night IR cut filter	Automatic, manual
Minimum illumination	0.1 lux at 50 IRE F/2.0
Video motion detection	16 configurable polygonal regions
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
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 55 fps at full resolution[1] or 25 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)	55 fps[1]: 2992 x 2992 (9.0 MP, max resolution) 30 fps when multi-streaming[2] Up to 60 fps[1]: 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 2[4] (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)[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 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): 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 960 x 400 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
PTZ functionality	10x zoom with Oncam 3D client-side dewarping software
VMS/NVR support	ONVIF Profile S, G and 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 14.0.3

[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%. 25 fps in TrueDetail HDR Mode, 60Hz
[3] MJPEG at 10 fps, <5,000 kbps supported
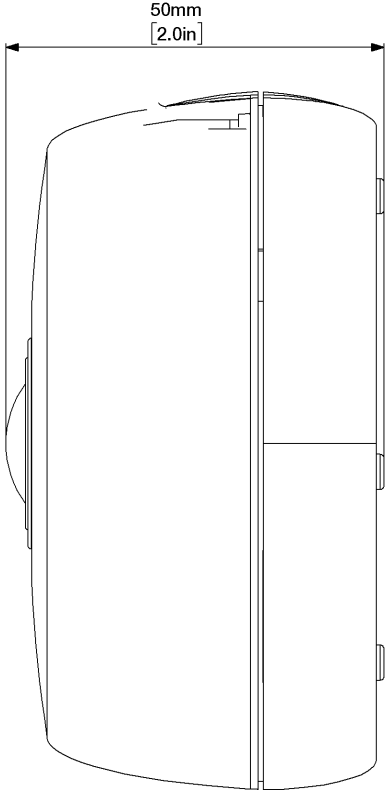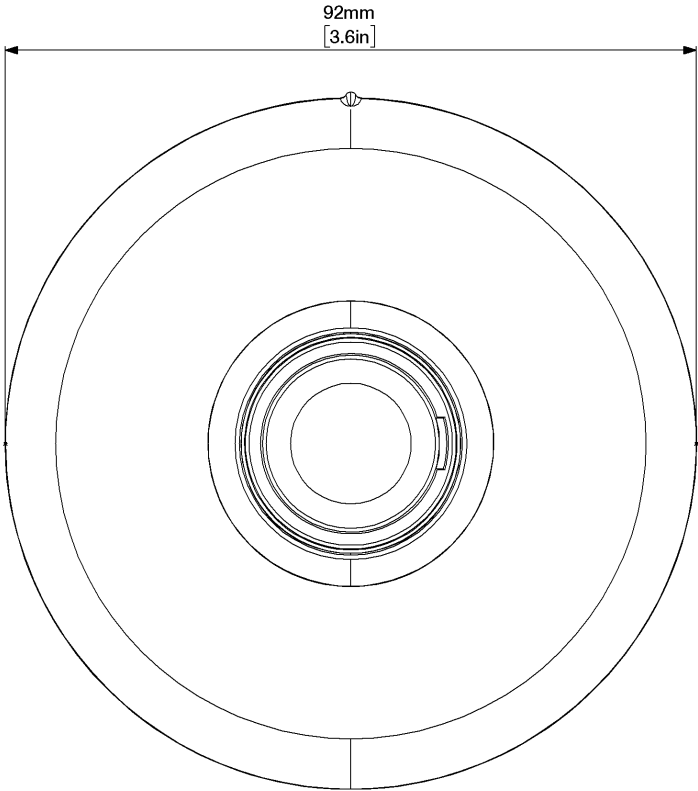[4] Resolution and video source view shared with Primary Stream in TrueDetail HDR Mode
[5] Dependent on VMS support
[6] Firmware version 2.0.x and above required

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
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

92mm [3.6in]

50mm [2.0in]

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

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")