

ONCAM C-12 Outdoor Plus



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 30 fps on primary stream with up to 3 other streams running.

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.

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

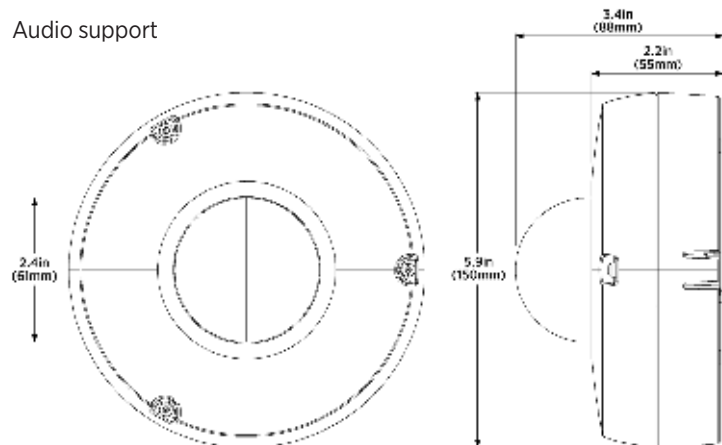
Dynamically manage the available light to optimize image quality to produce clearer, full-color, lower noise videos. Maintain the sharpness of static or moving objects even in challenging low and mixed light conditions.

Feature-rich Surveillance

- ▶ Powerful, robust and feature-rich 12MP camera, built upon Oncam's expertise in 360-degree IP video technology
- ▶ Crisp images in tough external conditions
- ▶ IP66, IP67, IP68, IP69K and IK10 rated, offering protection in harsh environments and against vandalism.
- ▶ Plus Board features make the camera perfect for more demanding installations
- ▶ Range of mounting options and accessories for added versatility
- ▶ Optional Heater Module for cold starting in temperatures as low as -40°F
- ▶ 3D dewarping in March Networks® Command™ Client
- ▶ 3-year warranty

Plus Board Features

- ▶ 8-28 VDC support
- ▶ Alarm I/O support x2 in x1 out
- ▶ LED Lamp support x2
- ▶ Audio support



ONCAM C-12 Outdoor 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
External alarm	2x contact input; 1x contact output
External LED control	2x contact output
Audio input	Audio IN through screw terminal connections, G.711/AAC codec
Audio input level	MIC input level range is approximately 5 mV to 50 mV
Advanced event management	Configurable Triggers: Motion regions, External contact input, Network message, Link down Configurable Actions: External contact output, SMTP (snapshot), Local recording, LED output
Networking	IPv4, TCP/IP, UDP, HTTP, DHCP, DNS, NTP, SMTP, RTP, RTSP, WEB RTC, RTCP, HTTPS, WS-Discovery, TLS and ARP
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 HTTPS encryption

VIDEO

Frame rate	max 55 fps at full resolution ¹
Video compression	H.264, H.265, MJPEG and VP8 (WEB RTC)
Smart compression	StreamLite H.264 and H.265 Dynamic FPS
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 2⁴ (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
Multi-stream capacity	4 multiple streams can run concurrently, with reduced frame rates. Fisheye stream 1 maintains a frame rate of 30 fps ²
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 29 fps with Electronic dynamic WDR 120dB
Virtual PTZ	10x zoom with dewarping in Command Client
Web browser compatibility	Supported minimum browsers versions: Chrome 84, Firefox 79, Edge 84 and Safari 13.1
Multicast	Supported for all streams
Bit rate control	Fixed Quality (Capped Bitrate) or Constant Bit Rate

¹Single stream only, exposure priority set to frame rate, 60Hz

²Maintain 30 fps ±5%. 29 fps in TrueDetail HDR Mode, 60Hz

³JPEG at 10 fps, <5,000 kbps supported

⁴Resolution shared with Fisheye stream 1 in TrueDetail HDR Mode

ELECTRICAL

Ports	RJ45 for 100/1000BASE-Tx
Power input	Power over Ethernet (PoE), IEEE standard 802.3af. Screw Terminals, 8-28 VDC, 15W LPS, NEC Class 2 power supply.
Power consumption (maximum)	< 12.95W (IEEE 802.3af, PoE 48VDC) < 12.95W (DC 8-28VDC)

MECHANICAL

Camera mount	Surface and Pendant
Weight	2.20 lbs (1.00 kg)
Dimensions (D x W x H)	5.9 x 5.9 x 3.4 in (150 x 150 x 88 mm)

ENVIRONMENTAL

Operating temperature range	-40 to 131° F (-40° C to 55° C)
Cold start temperature range	-4 to 131° F (-20° C to 55° C)
Cold start temperature range with heater	-40 to 131° F (-40° C to 55° C)
Operating Humidity	up to 95% Relative Humidity non-condensing
Ingress protection	IP66, IP67, IP68 and IP69K
Impact resistance	IK10

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 UL60950-part 22 RoHS REACH IP66, IP67, IP68, IP69K and IK10 BIS ISI3252(Part1), IEC 60950-1 NEMA Type 4 & 6
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ACCESSORIES

Outdoor Pendant Kit

Part Number 38504


Pendant Mount Adaptor



Thread	1½" NPT Male
Construction	ADC12 Aluminium
Form factor	Low profile
Installation	Pendant mount
Weight	0.44 lb (0.20kg)
Dimensions	Ø5.7in (145mm)

Sunshield



Construction	ADC12 Aluminium
Installation	Pendant mount
Weight	0.57 lb (0.26kg)
Dimensions	Ø 6.7in (170mm)
Assembled	

ACCESSORIES

Heater Module

Part Number 38505



Installation	Base of camera module
Operating temperature	As low as -40°F/°C
Functionality	Automatic on/off
Weight	0.11 lb (0.05kg)
Dimensions	2.7in (68mm)

OPTIONAL OUTDOOR ADD-ONS



Part Number	34491
Thread	1½" NPT Female
Weight	1.34 lbs (0.61kg)
Dimensions (D x W x H)	10.4 x 5.1 x 4.5 in (265 x 130 x 114 mm)



Part Number	34493
Thread	1½" NPT Female
Weight	0.9 lb (0.41kg)
Dimensions (D x W x H)	5.9 x 3.7 x 4.5 in (150 x 94 x 114 mm)



Part Number	34487
Thread	1½" NPT Female
Weight	1.36 lbs (0.62kg)
Dimensions (D x W x H)	11.6 x 7.3 x 4.5 in (295 x 185 x 114 mm)



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