

ION-C102-WDR IP Camera

High Quality H.264 IP Camera with Super Wide Dynamic Range

IONODES



> The **IONODES ION-C102-WDR** IP camera is the ideal solution for high quality video surveillance applications.

High Quality Video Compression

Video is compressed to a high quality digital format and streamed in real-time over IP. Using the H.264 High Profile compression codec (MPEG4 Part 10), storage requirements can be reduced by over 50% when compared to a compliant MPEG4 SP codec. Motion JPEG compression profiles are also supported. Interlaced or progressive video (programmable)

Triple-Encoding

The ION-C102-WDR's powerful video encoding engine can generate up to three different compression profiles per video input, allowing it to adapt to various streaming and recording environments.

Secure

Built-in encryption capability enables support for encrypted data and video communication channels as well as digital signing of video content, all in real-time.

Intelligence at the Edge

Optional advanced analytic capabilities include multi-zone motion detection and object based behavior tracking (crowd detection, virtual tripwires, object left behind, people counting, loitering, etc.) with privacy masking.

Power Over Ethernet

The installer-friendly ION-C102-WDR is powered over Ethernet (PoE) according to IEEE 802.3af, which eliminates the need for power outlets.

Easy to Manage

The ION-C102-WDR's GUI-based web interface makes set-up and management of the appliance nearly effortless. In addition, integration of the ION-C102-WDR into new or existing video management software is simple thanks to the intuitive ION API. The ION API exposes management and streaming functions through standard HTTP and RTSP interfaces and is supported by major NVR vendors.

Genetec Inside

Integrating the new Genetec API, the ION-C102-WDR integrates seamlessly with Omnicast 4.4 & later versions.

DPS Technology

DPS provides super wide dynamic range (102dB) and low lux sensitivity for superior image quality in high contrast and day/night lighting conditions and improved video compression.

Highlights

- Benefit from broadcast quality video using H.264 High Profile compression at 4CIF 30 fps.
- Save valuable storage space for your video archives by using H.264 compression.
- Customize your live streaming and recording scenarios by creating up to three different compression profiles per video stream.
- Ensure reliability through the use of built-in video buffering to mini SD card.
- Protect your video data through encryption and digital signatures.
- Detect camera tampering, enable privacy regions and benefit from object-based real-time motion detection.
- Easily integrate the appliance into your existing video management solution through the ION API.



IONODES ION-C102-WDR IP Camera Specifications

Video Sensor

Imaging Device	1/3 inch Digital Pixel System (DPS) sensor
Video Resolution	720 (H) X 540 (V) effective pixels
Min. Illumination	0.5Lux/ F1.2
Lens Mount	C/CS (with ring)
Dynamic range	102 dB Typical (120 dB maximum)
S/N ratio	More than 50 dB
Synchronization	Internal
Back Light Comp	Adjustable
Iris Control	Automatic/ Manual (DC Drive)
Day / Night capability	Mechanical shutter IR filter deployed in daytime mode. At night filter removed and camera operates in black and white mode. (ION-C102-WDR-DN version)

Video Compression

Standards	H.264 High, Main and Baseline profiles Motion JPEG
Data Rate	64 kbps – 6 Mbps per channel (H.264 requires less than 1 Mbps @ 4CIF/30fps)
Resolutions	4CIF/D1 (704x576/480 @ 25/30 fps) 2CIF (704x288/240 @ 25/30 fps) 2/3 D1 (464x576/480 @ 25/30 fps) 1/2 D1 (352x576/480 @ 25/30 fps) CIF (352x288/240 @ 25/30 fps) QCIF (176x144/120 @ 25/30 fps)
Delay	< 150 ms

Standard / Integrated Interfaces

Network	Standard 10/100 Base-T Ethernet port half/full duplex, auto-sensing, RJ-45
Alarm In	Two closure contacts (terminal bloc)
Relay Out	Single output relay contact (terminal bloc)
COM Port	Single serial port (RS422/485) (terminal bloc)

Storage

Internal	One internal mini SD or SDHC card (2-16 GB)
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Protocols

Networking	IPv4/v6, UDP, TCP, IGMP, ICMP, ARP, DHCP, DNS
Streaming	RTP, HTTP
Management	RTSP, HTTP, HTTPS, Bonjour, NTP, Telnet, FTP

General Features

System Administration	Web GUI interface (HTTP(s))
Programming Interface	Genetec API ION API – Open API for software integration
System Monitoring	Storage subsystem, power supply, temperature, network monitor
Access Control	Unix credentials, SSL, Basic and Digest Authentication
Video Buffering	Digitally signed ASF files to mini SD card
Software Update	Fault-tolerant, remote accessible
Alarm Events	Triggered by external input or internal event monitoring HTTP and email notification
Video Analytics	Optional; video motion detection, object based behavior tracking, etc.

Mechanical / Environmental

Dimensions	186 mm x 78 mm x 65 mm (7.32 in x 3.07 in x 2.56 in)
Housing	Die-cast aluminum
Weight	840 g (1.85 lbs)
Power	Power Over Ethernet (PoE) or 12 VDC
Operating Temperature	0°C to 50°C
Approvals	FCC, CE, UL