



## **ioi** cam mmp100dn

Intelligent-Video 3 Megapixel IP  
PIP/Dual-View Color Day/Night Camera

The ioicam mmp100dn provides intelligent-video surveillance automation, high-quality security usable images, electronic pan-tilt-zoom and unique dual window viewing in a picture-in-picture (PIP) format.

The mmp100dn is optimized to use the same bandwidth and resolution as traditional IP security cameras in leveraging the 3 megapixel sensor and 81x zoom for on-event PIP threat magnification.



The mmp100dn automatically detects and tracks intruders, vehicles, and threats. Its autonomous tracking in magnified PIP window displays both dynamic close-up tracking and full-view simultaneously.

Packaged and designed for simplicity, the all-in-one camera is a cost-effective automated solution for modern security challenges that increases situational awareness, identification, and scene-safety.

# all-inclusive detection

## intrusion detection

automatically detects and alarms on forbidden directional movement in controlled areas and at perimeters, including human and vehicle detection in an area, crossing a tripwire or breaching a fence line

## unattended objects/baggage detection

automatically detects and alarms on the abandonment or appearance of unaccompanied baggage/objects in controlled areas

## stopped vehicle detection

automatically detects and alarms on the presence of stopped vehicles in an area where parking/standing is a violation

## object removal detection

automatically detects and alarms on the sustained removal of objects or products from their given location

## autonomous (electronic) ptz tracking

vision-guided tracking that is self-driven to keep a moving object in focus and centered in the tracking window by automatically commanding the digital pan, tilt, and zoom (PTZ) to assure a constant magnified visual on the target in one of the two possible window layouts PIP or full window

# benefits

- 3 megapixel base-image resolution enables magnified identification at depth without narrowing the FOV, providing high-quality wider coverage than standard IP cameras
- consolidated one step intelligent-video and camera deployment with small footprint, effortless setup, and minimal infrastructure
- offers better security-usable images with instant magnified PIP (picture-in-picture) verification for optimal situational awareness
- non-mechanical electronic pan/tilt/zoom operates where mechanical PTZ alternatives are impractical, cost prohibitive, or prone to failure (ice, snow, lubricant failure, low temperatures, motor failure, or dirt clogging)
- integrates easily into third-party application using the included HTTP/RTSP API
- surveillance automation with video-edge-device operation that provides stand alone detection for self-sustained or integrated security system deployment
- dual-view emulates pan-tilt-zoom functionality of two PTZ cameras in separate views
- allows undistracted automated detection and visualization for additional threats on the full FOV while the second window tracks and maintains magnified visuals on the target

Stationary camera



Digital magnification produces unusable images for identification

Standard PTZ camera



Personnel must remain alert and then operate the PTZ controls

Traditional PTZ zoom loses the big picture

Security doesn't know there are other intruders or threats



When security is monitoring, mechanical PTZ provides good identification for one event but blinds security to other simultaneous threats

**ioi cam mmp100dn**

provides situational awareness and scene safety

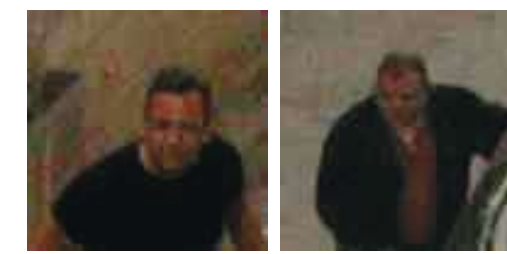


mmp automatically detects threats without the need for staff monitoring

mmp PIP autonomously tracks and records threats providing security with a wide and magnified view

Undistracted - both intruders are automatically identified - security can respond with better information and safety

Views can be swapped and tracking can be selected on any object



mmp PIP provides situational awareness and security usable images on all threats - automatically

**web based setup**



## simplicity

- easy to install, sets up in minutes – configure and view the intelligent video detection using a web browser or control software
- continuously auto-adjusts for best detection with ioimage unique auto-sensitivity processing - no ongoing adjustments

## performance:

- detects intruders under harsh weather conditions, low visibility, poor lighting
- detects camouflaged intruders, extremely slow progression (as slow as 1 ft/5 min), and burst movements
- supports pre-alarm recording for capturing the moments before an alert
- user-defined detection zones and allowed/disallowed directional movements
- high probability of detection, while maintaining a remarkably low rate of false alarms

## reliability

- ignores false alarms generated by small animals, swaying branches, cloud shadows, light changes, rain, snow and trivial movements in the scenery
- superior non-flat detection, sees intruders in 3D-scape and at great distances for reliable detection
- no moving PTZ parts to breakdown or maintain

## camera features

- built-in high quality intelligent video
- 3 megapixel (image pickup)
- image quality enhancement for low light and optimized detection
- 81x zoom (emulates 9x optical zoom plus an addition 9x digital zoom)
- hybrid: analog and MPEG4 streaming video
- full duplex audio
- standard and Picture-in-Picture (PIP) dual viewing formats
- on-alarm PIP preset viewing and layout
- multiple PIP layout options
- automatic, manual, and scheduled color (day) & BW (night) modes with IR cut filter
- low light sensitivity to 0.3 lux
- automatic gain control (AGC)
- auto/manual white balance (AWB)
- backlight compensation (BLC)
- auto/manual exposure (AE)
- anti-flicker 50/60hz
- relay output on event
- dry contact alarm input
- on-alarm recording to network location including pre-alarm
- compatible with ioimage systems
- HTTP-based API with RTSP video/audio streaming

# ioi cammmp100dn specifications

## Digital Video Output

- Video signal: MPEG4 SP
- Resolution 4CIF/CIF
- Full Frame Rate: NTSC 30fps, PAL 25fps

## Analog Video Output

- Standard – NTSC/PAL
- 1 Physical Connector – BNC 75
- Includes Graphical Overlay

## Digital Audio Output

- Standard – ADPCM (G.729) 8-96 Kbps
- Frequency Response: 20 Hz – 20 kHz, +/- 0.25 dB
- Audio Gain Control: -90 dB – 30dB

## Analog Audio Input/Output

- 3.5mm Mini Stereo Jack for Mono input/output  
Audio impedance 10k

## Standard Compliance

- ISO/IEC 14496 (MPEG4 SP)

## Protocols

- HTTP/TCP/IP - UDP; RTP/RTSP

## Viewing Options

- 81x Zoom With 3 megapixel, emulates 9x optical zoom plus an addition 9x digital zoom of a standard IP security camera resolution at 4CIF
- User selected full field of view (FOV), magnified sub-region (zoom), first/last/all detected objects on Primary window or secondary (PIP) window

## Power Source

- 12V VDC, 24V AC to 50/60 Hz and

- Power over Ethernet (PoE)

## Power Consumption

- 8.28W

## Serial I/O

- RS-232/RS-485
- Discrete I/O Interface
- IN – Dry Contacts (max. 12VDC 50mA)
- OUT – Relay Contacts (max. 24VDC 1A, 125VAC 0.5A)

## Software

- Integrated HTTP web server
- HTTP Application Programming Interface (API)

## Lens Mount

- C/CS Lens
- Auto/manual iris

## Network

- 10/100-base-T Ethernet with PoE
- Audio & Video – RTSP/RTP/IP
- Alarms /Commands – TCP/IP

## Camera

- Micron 1/2-Inch 3-Megapixel CMOS
- Dynamic Range 61dB
- Black & white mode: on/off
- IR cut filter: auto/scheduled/manual on/off
- Signal to noise ratio: 43dB
- Operating Temperature: -20°C to 50°C

## Dimensions

- (HxWxD) 60x71.3x130mm (without lens)