



ioi camwdc100dn

Ultra-Wide-Dynamic-Range Color
Day/Night Intelligent-Video IP Camera

The compact all-in one wdc100dn ioicam combines high performance video analytics with a state-of-the-art ultra-wide-dynamic-range IP camera to achieve a unique high-grade surveillance automation solution that makes intelligent video easier to deploy and operate.

For both indoor and outdoor surveillance, the built-in self-sustained video analytics can simultaneously detect intruders, suspicious baggage, stopped



vehicles and removed items for automatic detection even in extreme lighting and harsh weather conditions.

Securing nuclear power sites and national infrastructures, the computerized-detection of the ioicam provides high-security, yet is so versatile and easy-to-use, it is ideal for any security site.

rule-driven video analytics



intrusion detection

automatically detects and alarms on forbidden directional movement with three flexible options to choose from including detection of human and vehicle movement in controlled areas, tripwire (single or multi-segment lines), and fence trespassing



loitering detection

provides an alarm when a person remains in an area for a prolonged period of time. offers an adjustable alert time for different scenarios, squatting, trespassing and soliciting



unattended baggage detection

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



stopped vehicle detection

automatically detects and alarms on the presence of a stopped vehicle 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



camera tampering detection

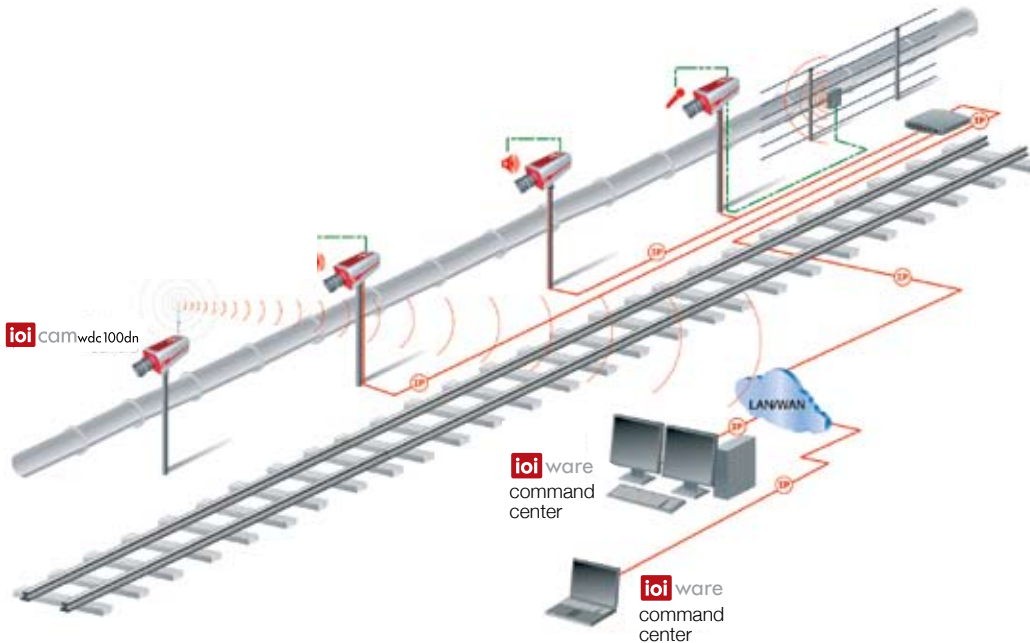
automatically alarms when camera operation is disrupted due to no video signal, poor video signal, shift in camera position and low visibility

Advantages

- Creates invisible fence capabilities without the costs of fence installation and hardware or the degradation of aesthetics
- Provides wide-area detection that can alert security of suspicious behavior inside and outside of the perimeter
- Provides better coverage than straight-line detectors or point sensors, such as PIR, fence sensors, ground sensors, smart fences, etc
- Provides instant video confirmation and additional information for assessment of an alarm event
- Can be used on a wireless network reducing deployment and infrastructure costs
- Automatic responses provide instant deterrent and remediation capabilities that can prevent escalation
- Built-in stand-alone video analysis out-performs high-maintenance network dependant solutions that share processing resources, use up bandwidth, and suffer from network latency
- On-alarm video-display, reduces the need for fulltime displaying and constant watching of unchanging video
- Ultra-wide-dynamic-range delivers crisp video quality even in extreme lighting, optimizing intelligent video performance and availability

camera features

- 1/3" CMOS image Sensor
- NTSC/PAL
- PIXIM™ DPS Digital Pixel System
- Ultra Wide Dynamic Range Up to 120 dB
- 540 HTVL (RGB), Effective Pixels: 720(H)X540(V)
- Automatic image quality enhancer for best detection
- Day/night Mode: On/Off/Automatic/Scheduled
- IR Cut Filter: Auto/Manual On/Off
- Auto-Iris Control (DC)
- AGC
- Electronic Shutter AUTO
- White Balance Auto/Manual
- Backlight Compensation
- Gamma Correction Options
- Extended Slow Shutter



web based setup



High Sensitivity for Low-Light Images

- Advanced Noise Reduction Technology
- 0.6 lux Color Minimum Illumination, f/1.2, 50IRE, 34dB Gain
- 0.1 lux B/W Minimum Illumination, f/1.2, 50IRE, 34dB Gain

Lens

- ALC Lens Drive DC Servo
- Mount: CS-Mount

Ultra-Wide Dynamic Imaging

PIXIM technology is a digital-pixel technology that provides accurate image reproduction and low-noise even in high-dynamic-range scenes under extreme-lighting conditions:

- Includes greater dynamic range for significantly improving image quality in scenes consisting of both bright and dark areas
- Built in technology for overcoming lighting problems as pixels are independently monitored and controlled to best capture images in the most difficult of scenes

ultra-wide-dynamic-range imaging for enhanced image quality and detection

Standard



wdc100dn



Simplicity

- Easy to install, sets up in minutes - intelligent video detection is configured using a web browser or optional control software
- Automatically adjusts for best detection at all times – no ongoing configuration required
- Fully-embedded stand-alone units – no PC required

Performance

- High probability of detection while maintaining a remarkably low false alarms rate
- Detects intruders under harsh weather conditions low visibility, and poor lighting
- Detects camouflaged intruders, extremely slow progression (as slow as 1 ft/5 min), and burst movements
- Superior non-flat detection sees objects in 3D-scape and at great distances for reliable detection
- Supports pre-alarm recording for capturing the moments before an alarm

Reliability

- The same ioicam analytic technology has been certified by the Israeli Defense Forces and by leading testing laboratories
- Field-proven with thousands of ioicams and ioiboxes deployed since 2003, protecting nuclear facilities, government sites, petrochemical factories, airports, and sea-ports
- Robust DSP-based intelligent video edge device, no central PC processing required

- Ignores false alarms generated by small animals, swaying branches, cloud shadows, light changes, rain, snow and trivial movements in the scenery

Highlights

- The all-in-one wdc100dn operates both as a stand-alone intelligent video camera or as part of an integrated network configuration
- Ultra-wide dynamic range day/night IP camera
- Built-in high-performance video analytics
- Built-in HTML web server for access, configuration, and viewing through a network via a standard web browser
- Enhanced with PIXIM technology for providing a crisp viewable image even in harsh lighting variations, backlight inundation, reflective glare, etc.
- Hybrid support for both analog and IP network architectures includes audio, video and indication of the cause of an alarm with on screen display overlays
- Two-way audio capabilities
- On-alarm recording to any network PC
- Supports remote field-deployment with easy configuration and software upgrades over a network
- Automatic image quality enhancer for best detection
- Infrared cut filter: manual & automatic switching from day (color) to night (B&W)
- Automatic white balance modes
- Automatic gain control (AGC)
- Automatic electronic shutter (AES)
- Advanced back light compensation (BLC)
- DC auto iris lens compatibility

ioi cam wdc100dn specifications

Digital Video Output

- M-JPEG and MPEG-4 SP at 4CIF and CIF resolutions with up to 30fps
- Configurable frame rate 1fps – 30 fps
- Configurable bit rate (CBR, VBR)
- Two separate, independent and configurable IP video streams

Analog Video Output

- NTSC or PAL
- 1 Physical Connector – BNC 75Ω, Composite 1Vp-p
- Includes Graphical Overlay

I/O Interfaces

- IN - One Alarm Input from an External Device
- OUT – Relay Out (rated load 0.3A@125VAC / 1A@30VDC)

Power Source

- 12VDC/24VAC
- Power over Ethernet (PoE) IEEE 802.3af
- Power Consumption: 9W

Environmental

- Ambient Operating Temperature: 0°C-50°C (32°F-122°F)
- Ambient Operating Humidity: Less than 90% (Non Condensing)

Dimensions

- (WxHxL) 71.3x60x130m (without lens)

Certifications

- CE, TUV, FCC

Disclaimer: Specifications are subject to change without prior notice. Dimensions are approximate. ioimage is not responsible for network performance and/or other manufacturer products that reside on the network.