The SC1DN-A analyzes the captured video signal and provides alarms and notifications of people and/or vehicles that enter a predefined area, cross a preset line or climb over a fence. Users can define what to detect and the region to detect with customizable rules and criteria.

The SC1DN-A is a small self-sustained camera that does not rely on additional components for video analysis. It is the newest version of the field proven SC1 family, incorporating for the first time support for H.264 on top of improved performance.

The SC1DN-A features IR-cut filter removal and low noise levels which optimizes the captured video signal to achieve maximum detection capabilities, while maintaining an extremely low False Alarm Rate (FAR). As part of the ioimage intelligent video cameras (ioicam) series, the SC1DN-A features both analog and IP streaming video outputs, enabling connectivity to both legacy and network based (IP) CCTV networks.

The camera can be configured via a standard web browser and includes automated sensitivity adaptation for minimal maintenance and ease of set up. Current users of the SC1 can upgrade to the new version using a remote firmware upgrade.

Key Features

- Fully integrated & self-sustained video analysis and encoding appliance - no need for additional HW/SW
- Real-time video analysis (DSP based)
- High probability of detection, low false alarm rate
- Automatic actions can be triggered upon detection
- Integrated scheduler
- Sensor - 1/4" CMOS image sensor
- Hybrid video output (analog & IP streaming)
- Integrates with existing analog equipment (analog monitors, DVR) for retrofitting exisiting installations
- Integrated WEB (HTTP) Server for live monitoring & configuration
- Dynamic range up to 82 dB
- 540 HTVL, effective pixels: 640 (H) x 480 (V)
- Removable IR cut filter - auto/manual
- AGC/AE
- Auto iris control (DC)
- Auto/manual white balance
- Backlight compensation
- NTSC or PAL
- CS lens mount/optional C mount adapter
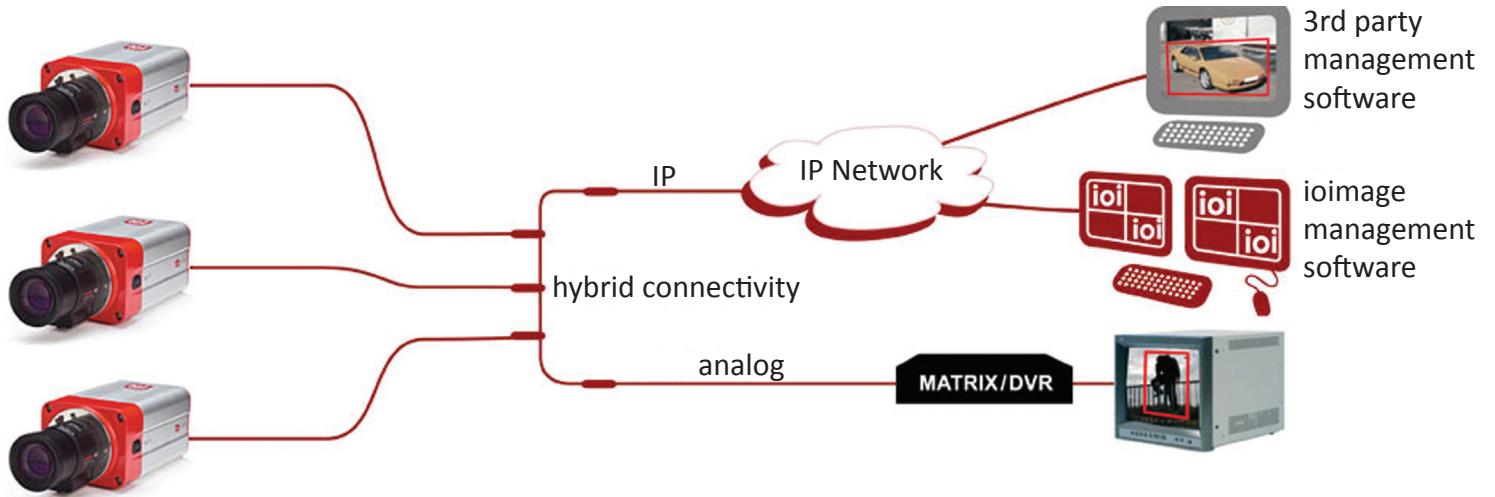
Built-in Detection Types

- Intrusion detection:
  - Regional entrance
  - Tripwire crossover
  - Fence trespassing

- Camera tampering
- Unattended baggage detection
- Object removal detection
- Loitering detection

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SC1DN-A

H.264 Camera with Built-in Video Analytics

SC1DN-A Set-up Diagram

IP

IP Network

hybrid connectivity

analog

MATRIX/DVR

3rd party management software

ioimage management software

General Specifications

Channels	
Number of intelligent video analysis channels	1
Analog Video Output	
TV standard	Composite 1Vp-p - NTSC or PAL
Physical connector	1x BNC 75 ohms
Digital Video Output	
IP video streaming	MPEG4 SP, M-JPEG, H264
Max resolution per channel	VGA
Frame rate	MPEG4 & M-JPEG up to VGA@30FPS, H.264 up to VGA@18FPS or 2CIFH@30FPS
Bit rate	CBR, VBR
Network	
Ethernet (IEEE 802.3/802.3U)	1x Ethernet RJ-45 interface
Services & protocols	TCP/IP, UDP/IP, HTTP, DHCP, DNS, SNTP, SMTP
Video streaming	RTP/RTSP
Alarms/commands	TCP/IP, HTTP

I/O Interface	
Alarm input	1x dry contacts
Relay output	1x relay output (rated load 0.3A@30VDC)
Power Source	
Voltage	12VDC / 24VAC
Power consumption	3.6W
Physical Dimensions	
Dimensions (mm)	73 W x 60 H x 133 D mm
Dimensions (in.)	2 7/8 W x 2 3/80 H x 5 15/64 D inches
Environmental Specifications	
Operating temperature	0° to 50° C
Operating humidity	5 to 90% (non-condensing)
Certifications	
Safety	cTUVus, CE
Electromagnetic Interference (EMC)	FCC part 15 subpart B, Class B

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