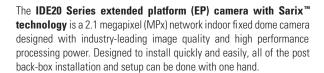
IDE20 Series Sarix[™] EP Network Indoor Fixed Dome

2.1 MEGAPIXEL EXTENDED PLATFORM HIGH DEFINITION INTEGRATED CAMERA

Product Features

- Up to 2.1 Megapixel Resolution (1920 x 1080)
- Up to 30 Images per Second (ips) at 1920 x 1080
- Optional CS-Mount Lenses
- · Auto Back Focus for High Precision Focusing
- · Easy, Quick, One-Handed Installation
- H.264 and MJPEG Compression
- Day/Night Capability
- · Sensitivity Down to 0.03 lux
- Power over Ethernet (IEEE 802.3af) or 24 VAC
- Video Setup Jack and Focus Button Accessible with Dome Closed
- Up to 2 Simultaneous Video Streams
- · Built-in Analytics



Sarix technology defines the next generation of video security imaging performance, delivering high definition (HD) resolution, advanced low-light capabilities, consistent color science, and fast processing power. The H.264 compression video files are up to 20 times smaller making high definition video more affordable.

Fixed Dome Camera

The **IDE20 Series** can be ordered with or without lenses. All models include advanced low-light technology and a camera in an indoor enclosure that is ready to install. The day/night model has a mechanical IR cut filter for increased sensitivity in low-light installations. These cameras accept a wide range of megapixel varifocal CS-mount lenses.

The **IDE20 Series** supports two simultaneous video streams. The two streams can be compressed in MJPEG and H.264 formats across several resolution configurations. The extended platform gives real-time video (30 ips) with full HD resolution using H.264 compression for optimized bandwidth and storage efficiency. The streams can be configured in a variety of frame rates, bit rates, and group of pictures (GOP) structures for additional bandwidth administration.

The **IDE20 Series** is simple to install, and the automatic back focus control feature makes sharp scene focus setup easy. A convenient video setup jack eliminates the need to use a laptop for viewing video when installing the camera.



- Local Storage (Micro SD) for Alarm Capture
- Motion Detection
- Audio Accessory Available

Built-In Analytics

Pelco® Analytic Suites and ObjectVideo® (OV) Analytic Suites enhance the flexibility and performance of the IDE20 Series camera. Pelco's Camera Sabotage behavior is a standard feature of seven models, including the IDE20DN-0, IDE20DN-1, IDE20DN8-1 and all models that are preloaded with Pelco Analytic Suites. IDE20 Series models are also available preloaded with OV Analytic Suites.

Pelco Analytic Suites are easy to configure for alarm notification when used with Endura® or a third-party system that supports Pelco's Analytics API. **OV Analytic Suites** offers rule configurations and alarm notifications that are easy to enable when using **OV Ready™** systems.

Web Interface

The **IDE20 Series** uses a standard Web browser for powerful remote setup and administration. Up to 16 cameras can be viewed on the same network.

Window Blanking

Window blanking is used to conceal user-defined privacy areas that cannot be viewed by an operator. The **IDE20 Series** supports up to four blanked windows. A blanked area will appear on the screen as a solid gray window.

Video Systemization

The **IDE20 Series** easily connects to Pelco IP and hybrid systems such as Endura version 2.0 (or later) and Digital Sentry® version 4.3 (or later). The camera also features open architecture connectivity to third-party software. Pelco offers an application programming interface (API) that enables third-party systems to interface with Pelco's network cameras.



PELCO ANALYTIC SUITES

Pelco Analytic Suites are offered in two distinct packages: the **Standard Suite** and the **Enhanced Suite**.

The Standard Suite allows you to run the Camera Sabotage behavior plus one other behavior. The Enhanced Suite is capable of running up to three behaviors at the same time. The number of behaviors is limited to the available processing power of the camera.

Note: Available processing power is determined by the settings for compression standards, resolution, image rate, bit rate, and analytic configuration.

For each behavior, you can create several custom profiles that contain different camera settings. With these profiles, you can set up different scenarios for the behavior, which will automatically detect and trigger alarms when specific activity is detected.

Pelco Analytic Suites are configured with an Endura or API system, which enables the behaviors to automatically detect and trigger alarms when specific activity is detected. Multiple Pelco analytics can be scheduled to work during a certain time or condition. For example, during the day, a camera can be programmed with Object Counting to count the number of people that enter a lobby door. At night, the operator can change the profile to Camera Sabotage to trigger an alarm if a camera is moved or obstructed. Each suite includes the following behaviors:

- Abandoned Object: Detects objects placed in a defined zone and triggers an alarm if the object remains in the zone longer than the userdefined time allows. An airport terminal is a typical installation for this behavior. This behavior can also detect objects left behind at an ATM, signaling possible card skimming.
- Adaptive Motion: Detects and tracks objects that enter a scene and then triggers an alarm when the objects enter a user-defined zone. This behavior is primarily used in outdoor environments with light traffic to reduce the number of false alarms caused by environmental changes.
- Camera Sabotage: Detects contrast changes in the field of view. An alarm is triggered if the lens is obstructed with spray paint, a cloth, or covered with a lens cap. Any unauthorized repositioning of the camera also triggers an alarm.
- Directional Motion: Generates an alarm in a high traffic area when a
 person or object moves in a specified direction. Typical installations for
 this behavior include an airport gate or tunnel where cameras can detect
 objects moving in the opposite direction of the normal flow of traffic or an
 individual entering through an exit door.
- Loitering Detection: Identifies when people or vehicles remain in a
 defined zone longer than the user-defined time allows. This behavior is
 effective in real-time notification of suspicious behavior around ATMs,
 stairwells, and school grounds.
- Object Counting: Counts the number of objects that enter a defined zone
 or cross a tripwire. This behavior might be used to count the number of
 people at a store entrance/exit or inside a store where the traffic is light.
 This behavior is based on tracking and does not count people in a
 crowded setting.
- Object Removal: Triggers an alarm if an object is removed from a
 defined zone. This behavior is ideal for customers who want to detect the
 removal of high value objects, such as a painting from a wall or a statue
 from a pedestal.
- Stopped Vehicle: Detects vehicles stopped near a sensitive area longer than the user-defined time allows. This behavior is ideal for airport curbside drop-offs, parking enforcement, suspicious parking, traffic lane breakdowns, and vehicles waiting at gates.

OBJECTVIDEO (OV) ANALYTIC SUITES

ObjectVideo Analytics Suites are preloaded on selected IDE20 Series cameras and require an OV Ready system to configure the behaviors for alarm notification.

OV Security Suite

The OV Security Suite is easy to use and includes Tripwire Detection, Inside Area Detection, and Camera Tamper Detection behaviors.

- Tripwire Detection identifies objects that cross a user-defined line drawn within the camera's field of view.
- Inside Area Detection identifies objects entering, appearing, or moving within a user-defined area.
- Camera Tamper Detection identifies significant contrast changes in the camera's field of view; for example, if the lens is obstructed by spray paint, a cloth, or a lens cap.

OV Security Suite Plus

The OV Security Suite Plus includes the behaviors of the OV Security Suite, plus Multi-Line Tripwire Detection, Loitering Detection, and Leave Behind Detection behaviors.

- Multi-Line Tripwire Detection identifies objects that cross two defined lines and generates an event based on defined parameters, including directionality. Defined parameters for this behavior include direction, sequential order, and time between crossing each tripwire.
- Loitering Detection identifies when people or vehicles remain within a
 defined area beyond a specified period of time. This behavior is effective
 for real-time notification of suspicious behavior around ATMs, stairwells,
 and school grounds.
- Leave Behind Detection detects objects placed in a defined zone and triggers an alarm if the object remains in the zone longer than the user defined time allows.

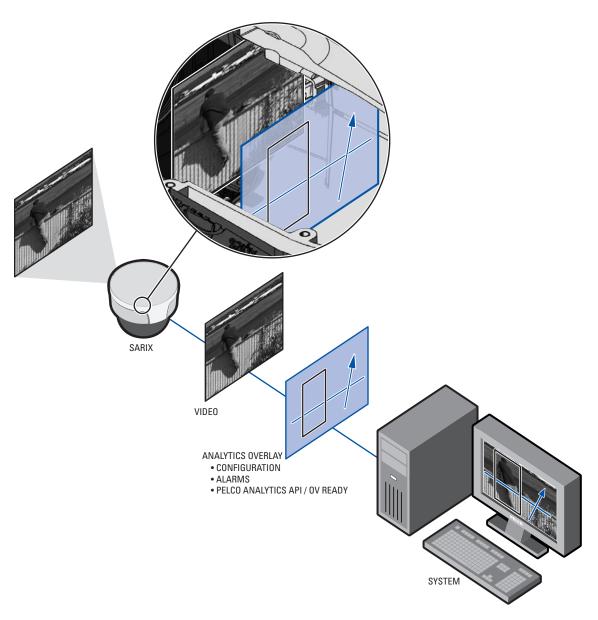
OV Event Counting Suite

The OV Event Counting Suite uses advanced object calibration and additional features for schedules, parameters, and multiple rules. The suite includes behaviors for Tripwire Counting, Enters/Exits Counting, Loiter Counting, Occupancy Sensing, and Dwell-Time Monitoring.

- Tripwire Counting counts people or objects that cross a user-defined line.
- Enters/Exits Counting calculates the number of people that enter and exit an area without using a tripwire.
- Loiter Counting is useful in analyzing how frequently people stop in front
 of a product, display, or other area of interest. This feature is also useful
 in assessing promotion effectiveness and product interest.
- Occupancy Sensing counts people and generates a new value every time
 the occupancy level changes. Since each occupancy output is
 timestamped, the data can be used to determine average occupancy
 levels or to correlate data to point-of-sale or other business scenarios.

Dwell-Time Monitoring rules can be set up to record the length of time between when an object enters and then exits an area. Along with queue size information, wait times can also be assessed. This behavior can be used to evaluate consumer interaction for a point-of-sale display or digital advertisement.

The following diagram illustrates how the camera system interprets streaming video when embedded analytics are configured and enabled.



IMPORTANT NOTE: PLEASE READ. The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco Representative to discuss your specific requirements.

GENERAL

Imaging Device 1/3-inch (effective)

Imager Type CMOS

Imager ReadoutProgressive scanMaximum Resolution1920 x 1080Signal-to-Noise Ratio50 dBAuto Iris Lens TypeDC drive

Electronic Shutter Range $1 \sim 1/100,000$ sec

Wide Dynamic Range 60 dB

White Balance Range 2,000° to 10,000° K Sensitivity f/1.2; 2,850° K; SNR >24 dB

Color (1x/33 ms) 0.5 lux Color SENS (15x/500 ms) 0.12 lux Mono (1x/33 ms) 0.25 lux Mono SENS (15x/500 ms) 0.03 lux

Dome Attenuation

Clear Zero light loss Smoked f/1.0 light loss

Construction

Back Box Cast aluminum
Trim Ring Polycarbonate plastic
Bubble Acrylic plastic
Finish White

Weight (without lens)

Unit 2.0 lb (0.9 kg) Shipping 6.0 lb (2.7 kg)

Available Languages Chinese, English, French, German, Italian,

Portuguese, Russian, Spanish, and Turkish

ELECTRICAL

Port RJ-45 connector for 100Base-TX

Auto MDI/MDI-X

Cable Type Cat5 or better for 100Base-TX
Power Input 18 to 34 VAC; 24 VAC nominal or

PoE (IEEE 802.3af class 3)

Power Consumption <6 W

Current Consumption

PoE <200 mA maximum

24 VAC <295 mA nominal; <390 mA maximum

Local Storage' Micro SD

Alarm Input 10 VDC maximum, 5 mA maximum
Alarm Output 0 to 15 VDC maximum, 75 mA maximum
Service Port External 3-connector, 2.5 mm provides

NTSC/PAL video output

Accessory Port Connects Pelco accessories

MECHANICAL

Lens Mount CS mount, adjustable

Pan/Tilt Adjustment

Pan 368°

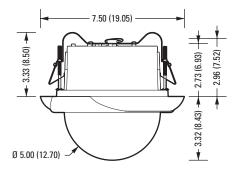
Tilt 160° (10° to 170°)

Rotate 355°

ENVIRONMENTAL

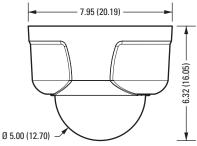
Operational Temperature 32° to 122°F (0° to 50°C)
Operational Humidity 20% to 80%, noncondensing

IN-CEILING

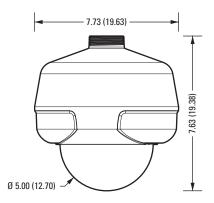


SURFACE MOUNT (Mounting Ring Included)

7.95 (2



PENDANT (Mount Available as Accessory)



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES

VIDEO

Video Encoding

H.264 high, main, or base profile and MJPEG

Video Streams

Up to 2 simultaneous streams; the second stream in variable based on the actus of the primary.

is variable based on the setup of the primary

stream

Frame Rate Up to 30, 25, 24, 15, 12.5, 12, 10, 8, 7. 5, 6, 5, 4, 3,

2, 1 (dependent upon coding, resolution, and

stream configuration)

Available Resolutions

Resolution				MJPEG		H.264 High Profile	
MPx	Width	Height	Aspect Ratio	Maximum IPS	Recommended Bit Rate	Maximum IPS	Recommended Bit Rate
2.1	1920	1080	16:9	30.0 ips	10.0 Mbps	30.0 ips	6.0 Mbps
1.9	1600	1200	4:3	20.0 ips	10.0 Mbps	20.0 ips	4.0 Mbps
1.3	1280	1024	5:4	20.0 ips	10.0 Mbps	20.0 ips	3.3 Mbps
1.2	1280	960	4:3	20.0 ips	10.0 Mbps	20.0 ips	3.0 Mbps
0.9	1280	720	16:9	30.0 ips	10.0 Mbps	30.0 ips	2.9 Mbps
0.5	800	600	4:3	30.0 ips	7.7 Mbps	30.0 ips	2.0 Mbps
0.3	640	480	4:3	30.0 ips	4.9 Mbps	30.0 ips	1.5 Mbps
0.1	320	240	4:3	30.0 ips	1.2 Mbps	30.0 ips	0.5 Mbps

Additional Resolutions 640 x 512, 640 x 352, 480 x 368, 480 x 272,

320 x 256, and 320 x 176

Supported Protocols TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP,

DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP,

FTP, mDNS (Bonjour®), and 802.1x (EAP)

Users

Unicast Up to 20 simultaneous users depending on

resolution settings (2 guaranteed streams)

Multicast Unlimited users H.264 Security Access Password protected

Software Interface Web browser view and setup, up to 16 cameras
Pelco System Integration Endura 2.0 (or later) or Digital Sentry 4.3 (or later)

Open IP Integration Pelco IP camera API

Minimum System Requirements

Processor Intel® Core® 2 Duo microprocessor, 2.6 GHz
Operating System Microsoft® Windows® XP, Windows Vista®, or

Mac® OS X 10.4 (or later)

Memory 2 GB RAM

Network Interface Card 100 megabits (or greater)

Monitor Minimum of 1024 x 768 resolution, 16- or 32-bit

pixel color resolution

Web Browser* Internet Explorer® 7.0 (or later) or Mozilla® Firefox®

3.5 (or later); Internet Explorer® 8.0 (or later) is recommended for configuring analytics

Media Player[†] QuickTime[®] 7.6.5 for Windows XP, Windows Vista,

or QuickTime 7.6.4 for Mac OS X 10.4

ANALYTICS

Required Systems for Pelco Analytic Suites

Pelco Interface WS5200 Advanced System Management Software

on an Endura 2.0 (or later) system

Open API Pelco analytics allow streaming information to communicate though Pelco's API Guide for Video

Analytics version 0.55.30 (or later), available at *Pelco.com/IP*

Required System for

Object Video Suites OV ready-compliant system with OV Ready video

management system

^{*}Internet Explorer is not supported by Mac OS X 10.4.

[†]This product is not compatible with QuickTime version 7.6.4 for Windows XP or Windows Vista. If you have this version installed on your PC, you will need to upgrade to QuickTime version 7.6.5.

MODELS

MODELS

IDE20DN-0 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night.

no lens, smoked dome

IDE20DN-1 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, clear dome

IDE20DN8-1 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night, 2.8 ~ 8 mm varifocal megapixel lens, clear

dome

IDE20DN-OCPO Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night, no lens, smoked dome, with built-in

OV Event Counting Plus Suite

IDE20DN-0S0 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, smoked dome, with built-in

OV Security Suite

IDE20DN-OSPO Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, smoked dome, with built-in

OV Security Plus Suite

IDE20DN-PMO Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, smoked dome, with built-in

Pelco Standard Suite

IDE20DN-P00 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, smoked dome, with built-in

Pelco Enhanced Suite

IDE20DN-OCP1 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, clear dome, with built-in OV Event Counting Plus Suite

IDE20DN-OS1 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, clear dome, with built-in

OV Security Suite

IDE20DN-OSP1 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, clear dome, with built-in

OV Security Plus Suite

IDE20DN-PM1 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, clear dome, with built-in Pelco Standard Suite

IDE20DN-P01 Sarix indoor fixed dome network camera,

extended platform, 2.1 megapixel, day/night,

no lens, clear dome, with built-in

Pelco Enhanced Suite

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- · Patents Pending

ACCESSORIES

IX-SC 4-foot Sarix service cable; compatible with

standard BNC connectors

IA-A Audio adapter compatible with a USB 2.0 A to

5-pin mini-B cable; supplied with two USB extension cables: 1 ft (0.3 m) and 3 ft (0.9 m)

ID-CB Plenum-rated conduit box POE20U560G Single port PoE injector

RECOMMENDED MOUNTS

ID-P Pendant mount
SWM-WT Wall mount for pendant
SWM-CAWT Corner adapter for wall mount
SWM-PAWT Pole adapter for wall mount

RECOMMENDED LENSES

13M2.2-6 Megapixel lens, varifocal, 2.2 ~ 6.0 mm,

f/1.3 ~ 2.0

13M2.8-8 Megapixel lens, varifocal, 2.8 ~ 8.0 mm,

f/1.2 ~ 1.9

13M2.8-12 Megapixel lens, varifocal, 2.8 ~ 12.0 mm,

f/1.4 ~ 2.7

13M15-50 Megapixel lens, varifocal, 15.0 ~ 50.0 mm,

f/1.5 ~ 2.1

Pelco lenses have been designed and tested to deliver optimal image quality for the IDE20 Series megapixel camera. The use of standard definition lenses on IDE20 Series will limit the resolution of the camera, creating poor image quality.

Field o	of View	Aspect Ratio			
in De	grees	16:9	4:3	5:4	
2.2 mm	Horizontal	109	109	109	
2.2 111111	Vertical	63	83	89	
2.8 mm	Horizontal	89	89	89	
2.8 111111	Vertical	48	66	70	
6.0 mm	Horizontal	42	42	42	
0.0 111111	Vertical	24	32	34	
0.0	Horizontal	32	32	32	
8.0 mm	Vertical	18	24	25	
10.0	Horizontal	21	21	21	
12.0 mm	Vertical	12	16	17	
1E 0 mm	Horizontal	16	16	16	
15.0 mm	Vertical	9	12	13	
F0.0	Horizontal	5	5	5	
50.0 mm	Vertical	3	4	4	

Note: For 800 x 600 (or lower) resolutions in 4:3 or 5:4 aspect ratios, the field of view is smaller than listed above. Refer to the Installation/Operation manual for details.

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