

IDE10 Series Sarix® IP Indoor Fixed Dome

1.3 MEGAPIXEL EXTENDED PLATFORM HIGH DEFINITION DIGITAL CAMERAS

Product Features

- Up to 1.3 Megapixel Resolution (1280 x 1024)
- Up to 30 Images per Second (ips) at 1280 x 720
- 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
- Ability to Control and Monitor Video Over IPv4 and IPv6 Networks
- Built-in Analytics

The **Sarix® IDE10 Series** extended platform (EP) is a 1.3 megapixel (MPx) network indoor fixed dome camera designed with industry-leading image quality and high performance processing power. Designed to install quickly and easily, all of the post back-box installation and setup can be done with one hand.

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 considerably smaller, making HD video more affordable.

Fixed Dome Camera

The **IDE10 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 **IDE10 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.

Built-In Analytics

Pelco Analytics enhance the flexibility and performance of the IDE10 Series camera. Eight Pelco behaviors are preloaded and included as standard features of the IDE10DN models. Pelco behaviors can be



- Local Storage (Micro SD) for Alarm Capture
- Adaptive Motion Detection
- ONVIF v1.02 Conformant
- Audio Accessory Available

configured and enabled using a standard Web browser, and they are compatible with Endura® or a third-party system that supports alarms using Pelco's API. Camera models are also available with preloaded **OV Analytic Suites**.

Web Interface

The **IDE10 Series** uses a standard Web browser for powerful remote setup and administration.

Window Blanking

Window blanking is used to conceal user-defined privacy areas that cannot be viewed by an operator. The **IDE10 Series** supports up to four blanked windows. A blanked area will appear on the screen as a solid gray window.

Video Systemization

The **IDE10 Series** easily connects to Pelco IP and hybrid systems such as Endura version 2.0 (or later) and Digital Sentry® version 7.3 (or later). The camera is also compatible with Digital Sentry NVs (DS NVs), a full-featured video management software, which is available as a free download at www.pelco.com. DS NVs includes four free Pelco IP licenses and allows for the management of video from up to 64 cameras.

The **IDE10 Series** features open architecture connectivity to third-party software. Pelco offers an application programming interface (API) and software developer's kit (SDK) for interfacing with Pelco's IP cameras.



by **Schneider Electric**



International Standards
Organization Registered Firm;
ISO 9001 Quality System



TECHNICAL SPECIFICATIONS

PELCO ANALYTICS

The IDE10 Series includes eight user-configurable behaviors. The camera is capable of running up to three behaviors at the same time; although, the number of behaviors is limited to the available processing power of the camera and the type of analytic being used.

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 Analytics are configured and enabled using a standard Web browser, and Pelco behavior alarms are compatible with Endura or a third-party system that supports Pelco's API system. Multiple Pelco behaviors can be scheduled to work during a certain time or condition. For example, during the day, a camera can be configured 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. Available Pelco behaviors include:

- **Abandoned Object:** 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. 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 Detection:** 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 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 IDE10 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 user-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.

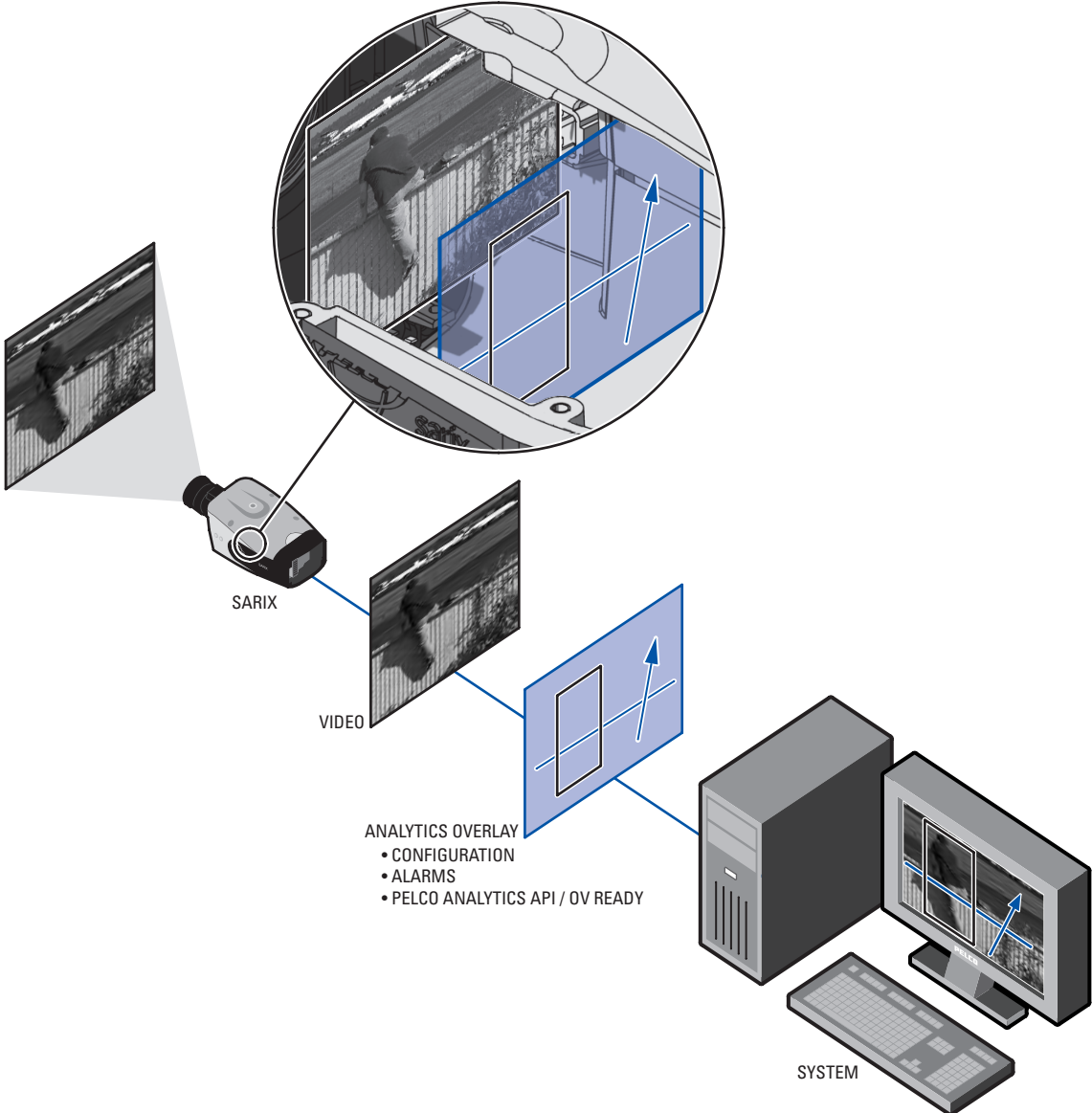
OV Event Counting Suite

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 time-stamped, 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 it takes an object to enter and exit 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.

TECHNICAL SPECIFICATIONS

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

TECHNICAL SPECIFICATIONS

GENERAL

| | |
|--------------------------|--|
| Imaging Device | 1/3-inch (effective) |
| Imager Type | CMOS |
| Imager Readout | Progressive scan |
| Maximum Resolution | 1280 x 1024 |
| Signal-to-Noise Ratio | 50 dB |
| Auto Iris Lens Type | DC drive |
| Electronic Shutter Range | 1 ~ 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 | 0.9 kg (2.0 lb) |
| Shipping | 2.7 kg (6.0 lb) |
| 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° |

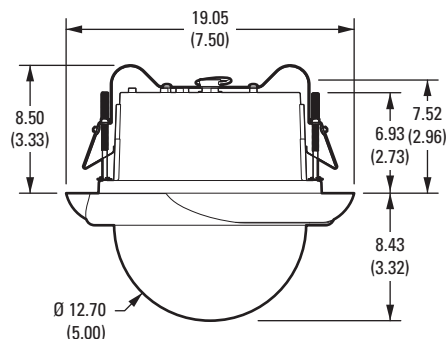
ENVIRONMENTAL

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

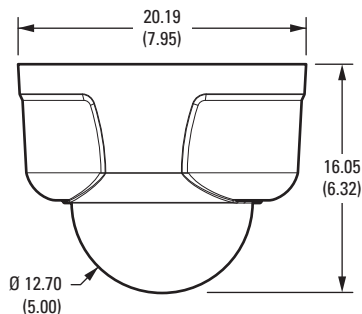


NOTE: VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.

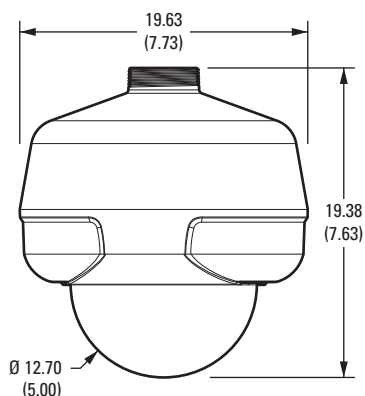
IN-CEILING



SURFACE MOUNT (Mounting Ring Included)



PENDANT (Mount Available as Accessory)



TECHNICAL SPECIFICATIONS

VIDEO

| | |
|----------------|--|
| Video Encoding | H.264 Base profile and MJPEG |
| Video Streams | Up to 2 simultaneous streams; the second stream 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) |

| | Resolution | | | MJPEG | | H.264 Base Profile | | |
|--|------------|-------|--------|--------------|-------------|----------------------|-------------|----------------------|
| | MPx | Width | Height | Aspect Ratio | Maximum IPS | Recommended Bit Rate | Maximum IPS | Recommended Bit Rate |
| | 1.3 | 1280 | 1024 | 5:4 | 20.0 ips | 10.0 Mbps | 20.0 ips | 3.25 Mbps |
| | 1.2 | 1280 | 960 | 4:3 | 20.0 ips | 9.8 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, IPv6*, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, 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 |
| Pelco System Integration | Endura 2.0 (or later) or Digital Sentry 7.3 (or later) |
| Open API | Pelco API or ONVIF v1.02 |
| 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† | Pelco Media Player or 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 Analytics | |
| Pelco Interface | WS5200 Advanced System Management Software on an Endura 2.0 (or later) system |
| Open API | The Pelco API can transmit behavior alarm data to third-party applications, available at pdn.pelco.com . |
| Required System for Object Video Suites | OV ready-compliant system with OV Ready video management system |

*Supports mixed IPv4 and IPv6 installations, but not IPv6-only deployments

†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.

TECHNICAL SPECIFICATIONS

MODELS

| | |
|--------------|---|
| IDE10DN-0 | Sarix indoor fixed dome network camera, extended platform, 1.3 MPx, day/night, no lens, smoked dome, with built-in Pelco analytics |
| IDE10DN-1 | Sarix indoor fixed dome network camera, extended platform, 1.3 MPx, day/night, no lens, clear dome, with built-in Pelco analytics |
| IDE10DN8-1 | Sarix indoor fixed dome network camera, extended platform, 1.3 MPx, day/night, 2.8 ~ 8 mm varifocal megapixel lens, clear dome, with built-in Pelco analytics |
| IDE10DN-OC1 | Sarix indoor fixed dome network camera, extended platform, 1.3 MPx, day/night, no lens, clear dome, with built-in OV Event Counting Plus Suite |
| IDE10DN-OS1 | Sarix indoor fixed dome network camera, extended platform, 1.3 MPx, day/night, no lens, clear dome, with built-in OV Security Suite |
| IDE10DN-OSP1 | Sarix indoor fixed dome network camera, extended platform, 1.3 MPx, day/night, no lens, clear dome, with built-in OV Security Plus Suite |

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- Patents Pending
- Cisco® Medianet (MSP) compatible
- ONVIF v1.02

OPTIONAL ACCESSORIES

| | |
|--------------------|---|
| IX-SC | Service/monitor cable, 1.22 m (4 ft); compatible with standard BNC connectors |
| AUD-1 | External audio accessory |
| ALM-1 | External alarm accessory |
| POE20U560G | Single port PoE injector |
| SECURE-SLA License | Enables Information Assurance compliant mode of operation |

RECOMMENDED MOUNTS

| | |
|----------|--|
| ID-P | Pendant mount |
| ID-DF5 | DF5 Series adapter kit |
| ID-CB | Conduit box for in-ceiling installations |
| ID-PCB | 61 x 61 cm (2 x 2 ft) ceiling panel with conduit box |
| 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 megapixel lenses have been designed and tested to deliver optimal image quality for the IDE10 Series dome. The use of standard definition lenses on IDE10 Series megapixel cameras will limit the resolution of the camera, creating poor image quality.

| Field of View in Degrees | | High Resolution Streams (>800 x 600) Aspect Ratio | | |
|--------------------------|------------|---|-----|-----|
| | | 16:9 | 4:3 | 5:4 |
| 2.2 mm | Horizontal | 109 | 109 | 109 |
| | Vertical | 63 | 83 | 89 |
| 2.8 mm | Horizontal | 89 | 89 | 89 |
| | Vertical | 48 | 66 | 70 |
| 6.0 mm | Horizontal | 42 | 42 | 42 |
| | Vertical | 24 | 32 | 34 |
| 8.0 mm | Horizontal | 32 | 32 | 32 |
| | Vertical | 18 | 24 | 25 |
| 12.0 mm | Horizontal | 21 | 21 | 21 |
| | Vertical | 12 | 16 | 17 |
| 15.0 mm | Horizontal | 16 | 16 | 16 |
| | Vertical | 9 | 12 | 13 |
| 50.0 mm | Horizontal | 5 | 5 | 5 |
| | 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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