

## Cisco Video Surveillance IP Camera

The Cisco® Video Surveillance IP Camera 2500 is a high-resolution, feature-rich digital camera designed for superior performance in a wide variety of environments. The camera employs MPEG4 compression to stream 30 frames per second (fps) at D1 (720 x 480, NTSC) resolution or 25 fps at D1 (720 x 576, PAL) resolution, offering efficient network utilization while providing high-quality video. Two-way audio and contact closures allow integration with microphones, speakers, and access control systems. With its open, standards-based design, the camera provides an ideal platform for transparent integration and operation as an independent device or as part of a Cisco Video Surveillance network.

### Primary Features

- **Wide dynamic range:** Powerful digital imaging technology allows the camera to capture high-quality images in a wide variety of indoor and outdoor lighting conditions. A progressive scan image sensor with global electronic shuttering helps ensure natural color rendition, zero blooming and smear, and minimal motion blurring.
- **Embedded security and networking:** The camera provides 802.1X authentication and hardware-based Advanced Encryption Standard (AES). For enhanced bandwidth management, the camera supports IP Multicast and quality of service (QoS).
- **Event notification:** The camera can examine designated areas for activity and notify users or other applications when it detects activity that exceeds a predefined threshold. The camera also provides two digital inputs and two digital outputs that can be used to initiate specific actions when an alarm is detected.
- **Flexible power options:** The camera supports Power over Ethernet (PoE) 802.3af or DC power through an optional external power supply.
- **Mounting options:** The camera can be installed with a fixed mount or with an optional external pan/tilt mount and motorized zoom lens.

### Optical Specifications

- **Imaging device:** 1/3-inch complementary metal oxide semiconductor (CMOS) with wide dynamic range.
- **Dynamic range:** 102 decibels (dB) typical/120 dB maximum.
- **Image control:** Automatic white balance (AWB), automatic back lighting, automatic gain control (AGC), auto/manual iris, sharpness, image quality, time stamp, and camera ID.
- **Image settings:** Configurable color level, brightness, sharpness, contrast, white balance, and exposure control.
- **Minimum illumination:**
  - Color mode: F1.4 @ 0.4 lux (.04 fc)
  - Black-and-white mode: F1.4 @ 0.04 lux (0.004 fc)
- **Signal-to-noise ration (SNR):** >48 dB.
- **Lens selection:** Accepts manual or DC auto iris lens.

- Lens mount: CS mount.
- Shutter speed: On, off.

### Video Specifications

- Video format: NTSC and PAL.
- Resolution and frame rate: NTSC/PAL:
  - 720 x 480/576 @ 30/25 fps (D1)
  - 704 x 480/576 @ 30/25 fps (4CIF)
  - 352 x 240/288 @ 30/25 fps (CIF)
- Video compression: MPEG4 SP level 0 to 4, ASP level 0 to 5.
- Video streaming:
  - Single-stream MPEG4 up to D1 720 x 480/576 @ 30/25 fps
  - Dual-stream MPEG4: Primary stream programmable up to 704 x 480/576 @ 25/20 fps
  - Secondary stream programmable up to 352 x 240/288 @ 25/20 fps
- Selectable bit rate: Support for constant bit rate or variable bit rate (constant quality), and variable bit rate with ceiling (bandwidth management by reducing frame rate rather than quality).
- Overlay capabilities: Time, date, and camera ID.
- Activity detection: Three user-definable detection areas (e-mail alert and FTP uploading of captured video or JPEG snapshots triggered by motion alert).

### Management

- Configuration: Browser-based using Internet Explorer 5.x and later.
- Camera access control: Multiple user access levels with password protection.
- IP filtering: Users can enter a list of allowed or blocked IP addresses for viewing video and configuring camera settings.

### Audio Specifications

- Audio:
  - Two-way (full- and half-duplex) or one-way or audio off
  - Internal microphone or optional external microphone
  - Optional external speaker
- Audio compression: G.711 A-Law, G.711 U-Law, G.726.

### Network Protocols

- QoS: Differentiated services code point (DSCP) marking for video and audio.
- Protocols: Dynamic Host Control Protocol (DHCP), File Transfer Protocol (FTP), Hypertext Transfer Protocol (HTTP), Secure HTTP (HTTPS), Network Time Protocol (NTP), Real-Time Transport Protocol (RTP), Real-Time Streaming Protocol (RTSP), Simple Mail Transfer Protocol (SMTP), Secure Sockets Layer/Transport Layer Security (SSL/TLS), Transmission Control Protocol/Internet Protocol (TCP/IP).

### Physical Interfaces

- Network connection: 10/100BASE-TX Ethernet with RJ-45 connector.
- Video connector: Analog output BNC connector, 75 ohms.
- Audio connectors:
  - 3.5-mm output jack for optional external speaker
  - 3.5-mm input jack for optional external microphone
- Serial port: RS-485 (2-wire), Pelco D protocol only.
- Alarm input: 2, logic level programmable.
- Alarm output: 2, logic level programmable.

## Ordering Information

To place an order, visit the [Cisco Ordering Homepage](#). To download firmware, visit the [Cisco Software Center](#). Table 1 provides ordering information for the Cisco Video Surveillance IP Camera and optional accessories.

**Table 1.** Cisco Video Surveillance IP Camera Ordering Information

Product Description	Part Number
<b>IP Camera</b>	
Cisco Video Surveillance IP Camera 2500	CIVS-IPC-2500
<b>Power Adapter (Optional)</b>	
12 VDC @ 1.6A Power Supply	CIVS-PWRPAC-12V
<b>Lenses</b>	
Cisco Video Surveillance IP Camera Tamron 3- to 8-mm Varifocal Lens	CIVS-IPC-VT38
Cisco Video Surveillance IP Camera Tamron 3- to 11-mm Varifocal Lens	CIVS-IPC-VT31
Cisco Video Surveillance IP Camera Tamron 5- to 50-mm Varifocal Lens	CIVS-IPC-VT55
Cisco Video Surveillance IP Camera Fujinon 3- to 8-mm Varifocal Lens	CIVS-IPC-VF38
Cisco Video Surveillance IP Camera Fujinon 3- to 11-mm Varifocal Lens	CIVS-IPC-VF31
Cisco Video Surveillance IP Camera Fujinon 5- to 50-mm Varifocal Lens	CIVS-IPC-VF55

## Service and Support

For information about the services that are available to support your Cisco Video Surveillance products, contact your Cisco channel partner or visit <http://www.cisco.com/go/videosurveillance>.

## For More Information

For more information about the Cisco Video Surveillance IP Camera, visit <http://www.cisco.com/go/videosurveillance> or contact your account representative.



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