

Cisco Video Surveillance 8400 IP Camera

Product overview

The Cisco® Video Surveillance 8400 IP Camera is an outdoor, high-definition, full-functioned video endpoint with an integrated infrared illuminator and industry-leading image quality and processing power. The camera is capable of full 2560 x 1920 (5 MP) resolution and up to 60 frames per second (fps) performance while optimizing network usage with either H.265, H.264, or MJPEG compression. H.265 compression with Smart Stream II provides more efficient image compression rates in comparison with H.264 encoding, by as much as 80 percent in some cases. Contact closures and two-way audio allow integration with microphones, speakers, and access control systems. With its open, standards-based design, the camera shown in Figure 1 provides an ideal platform for integration and operation as an independent device or as part of a Cisco Video Surveillance network.

Figure 1. Cisco Video Surveillance 8400 IP Camera



The Cisco Video Surveillance 8400 IP Camera offers a variety of benefits, including:

- **True high-definition video:** The camera streams crisp and clear 2560 x 1920 (5 megapixel) video at 30fps while maintaining low network bandwidth.
- **Motorized focus and zoom:** The lens on the 8400 IP Camera allows the focus and zoom to be controlled remotely, greatly simplifying installations and field of view adjustments.
- **Integrated infrared illuminator:** The infrared illuminator can light an area up to 30 meters away. SMART IR feature allows camera to automatically adjust IR projection based on subject distance.
- **Outdoor-ready:** An IP67 and IK10-rated enclosure and an included mounting bracket allow for outdoor mounting straight out of the box.
- **Quad streaming:** The camera can stream H.265, H.264, and MJPEG video simultaneously. Each video stream can be configured with individual resolution, quality, and frame-rate settings.
- **Day/night operation:** The camera provides true day/night functionality and includes an infrared filter that automatically switches to night mode in low-light scenes. This function can be set to manual, automatic, or scheduled control.
- **Privacy regions:** The camera supports up to five user-defined privacy regions. Any video within a privacy region is masked in the video stream.
- **Local storage:** Video data can automatically be recorded to an SD card when the camera loses network connectivity.

- **Bidirectional audio:** The camera supports full-duplex audio and options for half-duplex operation.
- **Open API.** Support for ONVIF Profile G and S allows for standards-based interoperability and communications with other ONVIF appliances.
- **Flexible power options:** The camera supports Power over Ethernet (PoE) 802.3at, 12 VDC power through an optional external power supply.
- **Mounting options:** The camera can be surface-mounted to the ceiling or wall.

Features

Table 1 describes the features of the Cisco Video Surveillance 8400 IP Camera.

Table 1. Cisco Video Surveillance 8400 IP Camera features

Item	Specification
Imaging device	1/1.8" progressive CMOS (Sony IMX178)
Image control	Time stamp, text overlay, flip, and mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3DNR, video rotation, defog, EIS
Wide dynamic range	100dB
Minimum illumination	<ul style="list-style-type: none"> • Color: 0.04 lux @ F1.3 • B/W: 0.001 lux @ F1.3
Lens	4-9mm P-Iris Remote autofocus and zoom
Field of view	45° ~ 84° (horizontal) 34° ~ 62° (vertical) 64° ~ 113° (diagonal)
Shutter speed	1/5 to 1/32,000 sec
Video compression	H.265 (with Smart Stream II), H.264, and MJPEG
Audio compression	G.711 A-Law, G.711 U-Law, G.726
Maximum resolution and frame rate (H.265/H.264)	2560x1920 @ 30 fps and 1920x1080 @ 60 fps
Maximum resolution and frame rate (MJPEG)	2560x1920 @ 12 fps and 1920x1080 @ 30 fps
Video streaming	4 simultaneous streams on the camera
Video streaming	H.265, H.264, or MJPEG
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP
Quality of Service (QoS)	Differentiated-Services-Code-Point (DSCP) marking and Class-of-Service (CoS) marking
Power	12 VDC through optional external power supply PoE (802.3at Class 4)
Power consumption (max)	Max 25.5W (heater on)

* Not supported when the camera is used with Cisco Video Surveillance Manager.

Connectors

Table 2 describes the connectivity and connectors of the Cisco Video Surveillance 8400 IP Camera.

Table 2. Cisco Video Surveillance 8400 IP Camera connectors

Item	Specification
Network connectivity	10 BASE-T/100 BASE-TX Ethernet with RJ-45 connector (CAT 5e and CAT6 highly recommended)
Alarm input	One logic level programmable
Alarm output*	One logic level programmable
Storage	MicroSD card slot
Audio	<ul style="list-style-type: none"> • Audio input and output terminal block • Two-way (full- and half-duplex), one-way, or audio off
Power input	Terminal block

* Not supported when the camera is used with Cisco Video Surveillance Manager.

Software

Table 3 describes the primary features of the Cisco Video Surveillance 8400 IP Camera software.

Table 3. Cisco Video Surveillance 8400 IP Camera primary software features

Item	Specification
Activity detection	User-definable alerts with configurable sensitivities and thresholds, email alert, and HTTP notifications
Selectable bit rate	Support for constant bit rate or variable bit rate
IP filtering	Users can enter a list of allowed or blocked IP addresses for viewing video and configuring camera settings
Configuration	<ul style="list-style-type: none"> • Browser-based using Internet Explorer 8.0 or later • Two levels of user access with password protection
Security	Support for IEEE 802.1X authentication

Specifications

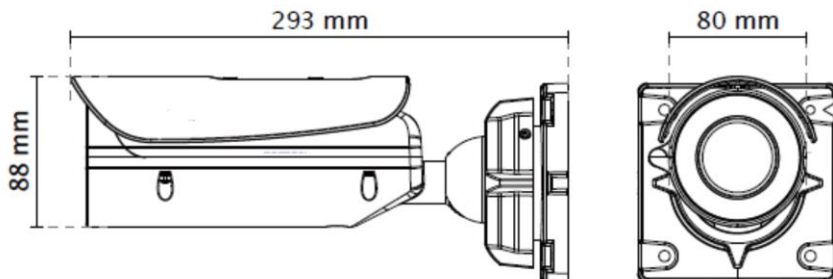
Table 4 provides mechanical specifications of the Cisco Video Surveillance 8400 IP Camera.

Table 4. Cisco Video Surveillance 8400 IP Camera mechanical specifications

Item	Specification
Housing	Aluminum
LEDs	Power and activity (red and green LED)
Dimensions (D x L)	3.5 x 11.5 in. (88 x 293mm)
Weight	1193g
Certifications	<p>Safety:</p> <ul style="list-style-type: none"> • EN/IEC 60950-1 • UL 60950-1 • CAN/CSA C22.2 No. 60950-1-07 <p>EMC Requirements:</p> <ul style="list-style-type: none"> • 47 CFR FCC Part 15, Subpart B, Class B • ICES-003:2016 Issue 6, Class B • ANSI C63.4:2014 • V-3/2016.11, Class B • V-4/2012.04 • EN55032, Class B • AS/NZS CISPR 32 Class B • CISPR 32 • EN 55024 • EN 50130-4
Operating temperature and humidity	-58 to 122°F (-50 to 50°C), 90% RH

Figure 2 shows the dimensions of the Cisco Video Surveillance 8400 IP Camera.

Figure 2. Cisco Video Surveillance 8400 IP Camera dimensions



Package contents

Table 5 describes the items that ship with the Cisco Video Surveillance 8400 IP Camera.

Table 5. Package contents

Item
Cisco Video Surveillance 8400 IP Camera
Mounting arm and bracket
Installation template
Documentation reference card
Regulatory documentation

Availability

The Cisco Video Surveillance 8400 IP Camera is available through Cisco partners.

Ordering information

Table 6 lists the part numbers for the Cisco Video Surveillance 8400 IP Camera.

Table 6. Ordering information

Part Number	Description
CIVS-IPC-8400	Cisco Video Surveillance IP Camera, HD Bullet Camera

Using the camera with Cisco Video Surveillance Manager

Features that are marked with an asterisk (*) are not supported when using the camera with Cisco Video Surveillance Manager. Refer to the release notes for Cisco Video Surveillance Manager 7.X.

Services and support

Cisco and our certified partners can help you accelerate success and improve the return on your investment in a Cisco Physical Security solution. The Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle. This approach allows you to:

- Reduce deployment costs by identifying the features that will best meet your business requirements
- Accelerate migration by assessing the readiness of your network to support the system and by developing a sound design
- Support smooth implementation through effective planning and expert installation, configuration, and integration
- Increase operational efficiency and extend the value of your investment with award-winning technical support

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For more information

For more information about the Cisco Video Surveillance 8400 IP Camera, visit <https://www.cisco.com/go/physec> or contact your local Cisco account representative.

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