

Cisco Video Surveillance 7530PD IP Camera

The Cisco[®] Video Surveillance 7530PD IP Camera is an outdoor, high-definition, full-functioned video endpoint with industry-leading image quality and processing power. The camera is capable of 2560 x 1920 resolution while optimizing network utilization with either H.264 or Motion JPEG (MJPEG) compression. Contact closures allow integration with access control systems. With its open, standards-based design, the camera provides an ideal platform for integration and operation as an independent device or as part of a Cisco Video Surveillance network.

Cisco Video Surveillance 7530PD IP Camera integrates a digital signal processor (DSP) designed to support complex applications such as real-time video analytics. Run multiple analytics packages without compromising video streaming performance on the camera. This highly flexible computing platform is ideal for next-generation video analytics applications.

The Cisco Video Surveillance 7530PD IP Camera offers a variety of benefits, including:

- **True high-definition video:** The camera streams crisp and clear video at resolutions up to 2560 x 1920 while maintaining low network bandwidth.
- **P-Iris lens:** The camera supports a P-Iris lens, which allows greater control of the lens aperture and produces a sharper image over typical DC iris lenses.
- **Outdoor-ready:** An IK10 and IP67-rated enclosure enables outdoor mounting.
- **Dual streaming:** The camera can stream H.264 and MJPEG video simultaneously. Each video stream can be configured with individual resolution, quality, and frame-rate settings.
- **Application-ready platform:** You can easily add functions by installing and running applications directly on the camera.
- **Day and 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.
- **Integrated infrared illuminator:** The infrared illuminator can light an area up to 20 meters away.
- **Privacy regions:** The camera supports up to four 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 a micro-Secure Digital (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 Open Network Video Interface Forum (ONVIF) 2.0 and Profile S allows for standards-based interoperability and communications with other ONVIF appliances.
- **Flexible power options:** The camera supports Power over Ethernet (PoE) 802.3af or 24 VAC power through an optional external power supply.

Features

Table 1 describes the features of the Cisco Video Surveillance 7530PD IP Camera.

Table 1. Cisco Video Surveillance 7530PD IP Camera Features

Item	Details
Imaging device	1/2.5 in. progressive-scan complementary metal-oxide semiconductor (CMOS)
Image control	Automatic white balance (AWB), automatic gain control (AGC), automatic exposure shutter (AES), and auto and manual iris
Wide dynamic range	80 dB
Minimum illumination	<ul style="list-style-type: none"> • Color mode: 0.1 lux • Black-and-white mode: 0 lux w/illuminator active
Lens	3-10mm P-Iris Remote focus and zoom
Field of view	35.45° to 88.90° (horizontal) 26.69° to 67.01° (vertical) 43.99° to 111.00° (diagonal)
Camera angle adjustment	Pan: 350° Tilt: 80° Rotate: 350°
Shutter speed	1/5 sec. to 1/32,000 sec
Video compression	H.264 and MJPEG
Audio compression	G.711 A-Law, G.711 U-Law
Resolution and frame rate (H.264)	Refer to Tables 2 and 3
Resolution and frame rate (MJPEG)	Refer to Tables 2 and 3
Video streaming	<ul style="list-style-type: none"> • Single-stream H.264 up to 2560 x 1920 @ 5 frames per second (fps) • Single-stream MJPEG up to 1920 x 1080 @ 30 fps • Dual-stream H.264 and MJPEG: <ul style="list-style-type: none"> ◦ Primary stream programmable up to 1280 x 720 @ 30 fps ◦ Secondary stream programmable up to 960 x 540 @ 15 fps
Protocols	Dynamic Host Control Protocol (DHCP), 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), Secure Real-Time Transport Protocol (SRTP), Cisco Discovery Protocol, Bonjour, Simple Network Management Protocol (SNMP), and Secure Shell (SSH) Protocol
Quality of service (QoS)	Differentiated-services-code-point (DSCP) marking and class-of-service (CoS) marking
Power	24 VAC through optional external power supply PoE (802.3af)
Power consumption (maximum)	AC: 27W PoE: 15.4W

Table 2 lists the video stream support for the Cisco Video Surveillance 7530PD IP Camera.

Table 2. Cisco Video Surveillance 7530PD IP Camera Video Stream Support

Primary (H.264)	Maximum fps	Secondary (H.264 or MJPEG)	Maximum fps
2560 x 1920	8	-	-
1920 x 1080	30	-	-
1920 x 1080	15	1024 x 576 960 x 544 768 x 432 704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
1536 x 864	30	1024 x 576 960 x 544 768 x 432 704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
1472 x 832	30	1024 x 576 960 x 544 768 x 432 704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
1280 x 720	30	1024 x 576 960 x 544 768 x 432 704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
1024 x 576	30	1024 x 576 960 x 544 768 x 432 704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15

Primary (H.264)	Maximum fps	Secondary (H.264 or MJPEG)	Maximum fps
960 x 544	30	960 x 544 768 x 432 704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
768 x 432	30	768 x 432 704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
704 x 400	30	704 x 400 640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
640 x 368	30	640 x 368 352 x 208 320 x 192 192 x 112 160 x 96	15
352 x 208	30	352 x 208 320 x 192 192 x 112 160 x 96	15
320 x 192 192 x 112 160 x 96	30	320 x 192 192 x 112 160 x 96	15
192 x 112 160 x 96	30	192 x 112 160 x 96	15
160 x 96	30	160 x 96	15

Table 3 lists the video stream support for the Cisco Video Surveillance 7530PD IP Camera for 4:3 aspect ratios

Table 3. Cisco Video Surveillance 7530PD IP Camera Video Stream Support for 4:3 Aspect Ratios

Primary (H.264)	Maximum fps	Secondary (H.264 or MJPEG)	Maximum fps
720 x 480/576	30/25	720 x 480/576 704 x 480/576 352 x 240/288	15
704 x 480/576	30/25	704 x 480/576 352 x 240/288	15
352 x 240/288	30/25	352 x 240/288	15

Connectors

Table 4 describes the connectivity and connectors of the Cisco Video Surveillance 7530PD IP Camera.

Table 4. Cisco Video Surveillance 7530PD IP Camera Connectors

Item	Details
Network connectivity	100BASE-TX Ethernet with RJ-45 connector
Serial port	RS-485
Alarm input	Three logic level programmable
Alarm output*	One logic level programmable
Storage	MicroSD card slot
Audio	<ul style="list-style-type: none">• 3.5-mm audio jack: Audio input for optional external microphone and audio output for optional external speaker supported through Y-cable adapter• 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 5 describes the primary features of the Cisco Video Surveillance 7530PD IP Camera software.

Table 5. Cisco Video Surveillance 7530PD IP Camera Primary Software Features

Item	Details
Activity detection	User-definable alerts with configurable sensitivities and thresholds, email alert, and HTTP notifications
Camera-tamper detection	User-definable alerts, email alert, and HTTP notifications
Video format	NTSC and PAL
Image settings	Configurable brightness, sharpness, contrast, saturation, hue, and white balance
Overlay capabilities	Time, date, and text
Selectable bit rate	Support for constant bit rate or variable bit rate* (constant quality)
IP filtering	Users can enter a list of allowed or blocked IP addresses for viewing video and configuring camera settings
Discovery	Cisco Discovery Protocol, Bonjour Zero-Configuration discovery
Configuration	<ul style="list-style-type: none">• Browser-based using Microsoft Internet Explorer 8 and later• Two levels of user access with password protection
Security	Support for IEEE 802.1X authentication

Specifications

Table 6 provides specifications of the Cisco Video Surveillance 7530PD IP Camera.

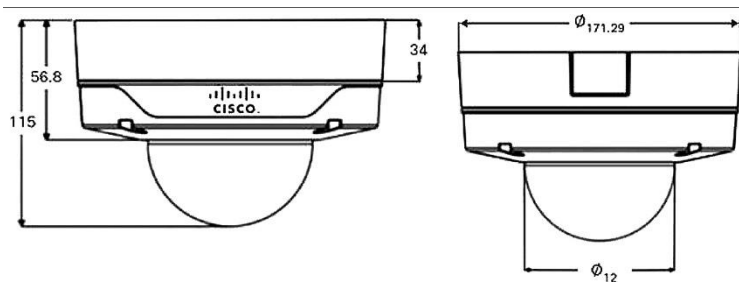
Table 6. Cisco Video Surveillance

Item	Specification
Housing	Aluminum
LEDs	Power and activity
Dimensions (H x D)	4.5 x 6.9 in. (115 x 174 mm) [[what about W? Our style is H x W x D]]
Weight	1453 g

Item	Specification	
Certifications	Safety: UL60950-1 2nd edition CSA22.2-No.60950-1 IEC/EN60950-1 2nd edition IEC/EN60825	EMC-Requirements: CISPR22 Class B ICES-003 EN50121-4 EN50155 EN50130-4 EN55022 EN55024 EN61000-3-2/-3-3 Class A VCCI Class B KN22 Class B KN24
Operating temperature	-25 to 50°C (-13 to 122°F) using PoE -40 to 50°C (-40 to 122°F) using AC Cold startup: -25°C using PoE -40°C using AC	

Figure 1 shows the dimensions of the Cisco Video Surveillance 7530PD IP Camera.

Figure 1. Cisco Video Surveillance 7530PD IP Camera Dimensions



All dimensions are in millimeters.

Package Contents

The items that ship with the Cisco Video Surveillance 7530PD IP Camera include:

- Cisco Video Surveillance 7530PD IP Camera
- Installation template and alignment sticker
- Mounting plate
- Bushing and connectors
- L-type hex wrench
- Screws, hex nuts, and wall anchors
- Dessicant pack and double-sided tape
- Documentation reference card
- Regulatory documentation

Availability

The Cisco Video Surveillance 7530PD IP Camera is available through Cisco Authorized Technology Provider (ATP) partners.

Ordering Information

Table 7 lists the part numbers for the Cisco Video Surveillance 7530PD IP Camera and accessories.

Table 7. Ordering Information

Part Number	Description
CIVS-IPC-7530PD	Cisco Video Surveillance 5-MP IP Outdoor Dome Camera
CIVS-6KA-VRD-C	Clear Vandal-Resistant Dome
CIVS-6KA-VRD-S	Smoked Vandal-Resistant Dome
CIVS-AVCABLE	Audio Video Cable for Cisco Video Surveillance 3500 Series, 6000 Series, and 7000 Series IP Cameras

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.

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:

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- 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 7530PD IP Camera, visit <http://www.cisco.com/go/videosurveillance> or contact your local account representative.




Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
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