

## Cisco Video Surveillance 6620 and 6630 IP Cameras

The Cisco® Video Surveillance 6630 IP Camera is an outdoor, high-definition, full-functioning video endpoint with industry-leading image quality and processing power. Its companion, the Cisco Video Surveillance 6620 IP Camera, contains the same level of image quality in an indoor enclosure. The cameras are capable of 1920 x 1080 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 cameras provide an ideal platform for integration and operation as an independent device or as part of a Cisco Video Surveillance network.

The Cisco Video Surveillance 6620 and 6630 IP Cameras offer a variety of benefits, including:

- **True high-definition (HD) video:** The camera streams crisp and clear video at resolutions up to 1920 x 1080 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.
- **True wide dynamic range (WDR):** 100 db dynamic range for scenes that contain both light and dark areas.
- **Outdoor-ready:** (6630) An IK10 and IP67-rated enclosure for 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, which automatically switches to night mode in low-light scenes and can be set to manual, automatic, or scheduled control.
- **Integrated infrared illuminator:** The infrared illuminator with smart IR can light an area up to 30 meters away.
- **Privacy regions:** The camera supports up to four user-defined privacy regions. Any video in a privacy region is masked in the video stream.
- **Local storage:** Video data can automatically be recorded to a MicroSD 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, 12V DC or 24V AC power through an optional external power supply.

## Features

Table 1 describes the features of the Cisco Video Surveillance 6620 and 6630 IP Cameras.

**Table 1.** Cisco Video Surveillance 6620 and 6630 IP Camera Features

Item	Details
<b>Imaging device</b>	1/3" progressive-scan CMOS
<b>Image control</b>	Automatic white balance (AWB), automatic gain control (AGC), automatic exposure shutter (AES), Wide Dynamic Range (WDR) and auto and manual iris
<b>Wide dynamic range</b>	100 dB
<b>Minimum illumination</b>	<ul style="list-style-type: none"> <li>• Color mode: 0.16 lux</li> <li>• Black-and-white mode: 0 lux with illuminator active</li> </ul>
<b>Lens</b>	3-10mm P-iris Remote focus and zoom
<b>Field of view</b>	33° to 104° (horizontal) 19° to 56° (vertical) 39° to 121° (diagonal)
<b>Camera angle adjustment</b>	Pan: 350° Tilt: 80° Rotate: 350°
<b>Shutter speed</b>	1/5 sec. to 1/10,000 sec
<b>Video compression</b>	H.264 and MJPEG
<b>Audio compression</b>	G.711 A-Law, G.711 U-Law
<b>Resolution and frame rate (H.264)</b>	Refer to Table 2
<b>Resolution and frame rate (MJPEG)</b>	Refer to Table 2
<b>Video streaming</b>	<ul style="list-style-type: none"> <li>• Single-stream H.264 up to 1920 x 1080 at 30 frames per second (fps)</li> <li>• Single-stream MJPEG up to 1920 x 1080 at 30 fps</li> <li>• Dual-stream H.264 and MJPEG: <ul style="list-style-type: none"> <li>◦ Primary stream programmable up to 1920 x 1080 at 30 fps</li> <li>◦ Secondary stream programmable up to 1024 x 576 at 15 fps</li> </ul> </li> </ul>
<b>Protocols</b>	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
<b>Quality of service (QoS)</b>	Differentiated-services-code-point (DSCP) marking and class-of-service (CoS) marking
<b>Power</b>	12V DC or 24V AC through optional external power supply PoE (802.3af)
<b>Power consumption (maximum)</b>	DC: 25.2W AC: 30.3W PoE: 15.4W

Table 2 lists the video stream support for the Cisco Video Surveillance 6620 and 6630 IP Cameras.

**Table 2.** Cisco Video Surveillance 6620/6630 IP Camera Video Stream Support

Primary (H.264)	Maximum fps	Secondary (H.264 or MJPEG)	Maximum fps
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	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	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	15
1280 x 1024	30	720 x 576 720 x 480 704 x 576 704 x 480 352 x 288 352 x 240 320 x 240 192 x 160	
1280 x 960	30	720 x 576 720 x 480 704 x 576 704 x 480 352 x 288 352 x 240 320 x 240 192 x 160	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	15

Primary (H.264)	Maximum fps	Secondary (H.264 or MJPEG)	Maximum fps
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	15
960 x 544	30	960 x 544 768 x 432 704 x 400 640 x 368 352 x 208 320 x 192	15
768 x 432	30	768 x 432 704 x 400 640 x 368 352 x 208 320 x 192	15
720 x 576	30	720 x 576 704 x 576 352 x 288 320 x 240 192 x 160	15
720 x 480	30	720 x 480 704 x 480 352 x 240 320 x 240 192 x 128	15
704 x 576	30	704 x 576 352 x 288 320 x 240 192 x 160	15
704 x 480	30	704 x 480 352 x 240 320 x 240 192 x 128	15
704 x 400	30	704 x 400 640 x 368 352 x 208 320 x 192	15
640 x 368	30	640 x 368 352 x 208 320 x 192	15
352 x 288	30	352 x 288 320 x 240 192 x 160	15
352 x 240	30	352 x 240 320 x 240 192 x 128	15
352 x 208	30	352 x 208 320 x 192	15

Primary (H.264)	Maximum fps	Secondary (H.264 or MJPEG)	Maximum fps
320 x 240	30	320 x 240 192 x 160 192 x 112 160 x 96	15
320 x 192	30	320 x 192	15
192 x 160	30	192 x 160	15
192 x 128	30	192 x 128	15

## Connectors

Table 3 describes the connectivity and connectors of the Cisco Video Surveillance 6620 and 6630 IP Cameras.

**Table 3.** Cisco Video Surveillance 6620 and 6630 IP Camera Connectors

Item	Details
<b>Network connectivity</b>	100BASE-TX Ethernet with RJ-45 connector
<b>Alarm input</b>	One logic level programmable
<b>Alarm output<sup>*</sup></b>	One logic level programmable
<b>Storage</b>	MicroSD card slot
<b>Audio</b>	<ul style="list-style-type: none"> <li>• 3.5-mm audio jack: Audio input for optional external microphone and audio output for optional external speaker</li> <li>• Two-way (full- and half-duplex), one-way, or audio off</li> </ul>
<b>Analog Video</b>	Through audio output jack using a Cisco CIVS-AVCABLE cable
<b>Power input</b>	Terminal block

<sup>\*</sup> Not supported when the camera is used with Cisco Video Surveillance Manager.

## Software

Table 4 describes the primary features of the Cisco Video Surveillance 6620 and 6630 IP Camera software.

**Table 4.** Cisco Video Surveillance 6620/6630 IP Camera Primary Software Features

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

## Specifications

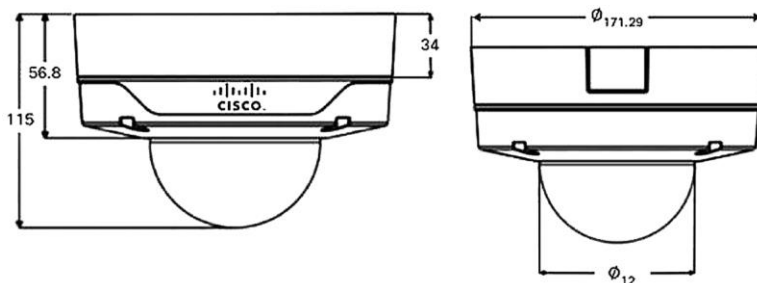
Table 5 provides specifications of the Cisco Video Surveillance 6620 and 6630 IP Cameras.

**Table 5.** Cisco Video Surveillance

Item	Specification
<b>Housing</b>	Aluminum
<b>LEDs</b>	Power and activity
<b>Dimensions (H x W x D)</b>	4.5 x 6.9 in. (115 x 174 mm x 174 mm)
<b>Weight</b>	1215 g
<b>Certifications</b>	<p><b>Safety:</b>            UL60950-1 second edition            CSA22.2-No.60950-1            IEC/EN60950-1 second edition            IEC/EN60825</p> <p><b>EMC-Requirements:</b>            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</p>
<b>Operating temperature</b>	-20 to 50°C (-4 to 122°F) using PoE -50 to 50°C (-58 to 122°F) using AC Cold startup: -10°C using PoE -40°C using AC

Figure 1 shows the dimensions of the Cisco Video Surveillance 6620 and 6630 IP Cameras.

**Figure 1.** Cisco Video Surveillance 6620 and 6630 IP Cameras' Dimensions



All dimensions are in millimeters.

## Package Contents

The items that ship with the Cisco Video Surveillance 6620 and 6630 IP Cameras include:

- Cisco Video Surveillance 6620 or 6630 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 6620 and 6630 IP Cameras are available through Cisco Authorized Technology Provider (ATP) partners.

## Ordering Information

Table 6 lists the part numbers for the Cisco Video Surveillance 6620 and 6630 IP Cameras and accessories.

**Table 6.** Ordering Information

Part Number	Description
<b>CIVS-IPC-6620</b>	Cisco Video Surveillance 2MP IP Indoor Dome Camera
<b>CIVS-IPC-6630</b>	Cisco Video Surveillance 2MP IP Outdoor Dome Camera
<b>CIVS-6KA-VRD-C</b>	Clear Vandal-Resistant Dome
<b>CIVS-6KA-VRD-S</b>	Smoked Vandal-Resistant Dome
<b>CIVS-AVCABLE</b>	Audio Video Cable for Cisco Video Surveillance 3600 Series, 6000 Series, and 7000 Series IP Cameras

## Services and Support

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

- Reduce deployment costs by identifying the features that 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 6620 and 6630 IP Cameras, visit <http://www.cisco.com/go/videosurveillance> or contact your local account representative.




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