Cisco Video Surveillance 2530 Series Standard-Definition IP Dome

The Cisco® Video Surveillance 2530 Series IP Dome is a feature-rich digital camera designed for superior performance in a wide variety of video surveillance applications and environments. The camera employs MPEG-4 and MJPEG compression of up to 30 frames per second (fps) at D1 NTSC resolution (720 x 480) or 25 fps at D1 PAL resolution (720 x 576), offering efficient network utilization while providing high-quality video. Two-way audio and contact closures allow integration with microphones, speakers, and access control systems. This vandal-resistant dome can be deployed indoors or outdoors. 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.

Figure 1 shows the Cisco Video Surveillance 2530 Series IP Dome.

Figure 1. Cisco Video Surveillance 2530 Series IP Dome

The Cisco Video Surveillance 2530 Series IP Dome offers a variety of benefits, including:

- **Wide dynamic range.** The camera employs powerful digital imaging technology, allowing it to capture high-quality images in a wide variety of indoor and outdoor lighting conditions. It uses a progressive scan image sensor with global electronic shuttering to ensure natural color rendition, zero blooming and smear, and minimal motion blurring.
- **Dual streaming.** The camera can stream MPEG-4 and MJPEG video simultaneously. Each video stream can be configured with individual resolution, quality, and frame rate settings.
- **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.
- **Event notification.** The camera can examine designated areas in the video for motion activity and then 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 initiate specific actions when an alarm is detected.
- **Bidirectional audio.** The camera supports full-duplex audio and provides options for half-duplex operation.

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- **Indoor/outdoor mounting options.** The camera is designed for mounting onto surfaces by using the included conduit case or a standard electrical junction box. The camera is equipped with a varifocal lens mounted to a manual pan and tilt mechanism that allows the camera to be rotated and placed at the proper angle.
- **Day/Night operation.** The camera provides true day/night operation and includes an IR filter that automatically switches to night mode in low-light scenes. This function can be set to manual or automatic control.
- **Fan/heater operation.** The camera includes a fan and heater unit that automatically maintains a desirable internal temperature, allowing the camera to operate in outdoor conditions.
- **Cisco Media Application Programming Interface.** The camera supports the Cisco Media API, which is an open, standards-based interface that allows integration with compatible video surveillance management systems.

Features

Table 1 describes the features of the Cisco Video Surveillance 2530 Series IP Dome.

Table 1. Cisco Video Surveillance 2530 Series IP Dome Features

Item	Specification
Imaging device	1/3-in. Progressive-scan RGB CMOS sensor with wide dynamic range
Image control	Automatic white balance (AWB), automatic back lighting, automatic gain control (AGC), automatic exposure (AE), auto iris.
Dynamic range	102 dB typical/120 dB maximum
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 ratio (SNR)	>48 dB
Shutter	Electronic Shutter
Lens	DC auto-iris lens with day/night Zoom: 3.5x Field of View: • Horizontal: 22°–76° • Vertical: 17°–56°
Camera Angle Adjustment	Pan: 340° Tilt: 160° Rotation: 200°
Video compression	MPEG-4 SP level 0 to 4, ASP level 0 to 5, MJPEG
Audio compression	G.711 A-Law, G.711 U-Law, G.726
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 streaming	• Single-stream MPEG-4 up to D1 720 x 480/576 @ 30/25 fps • Single-stream MJPEG up to D1 720 x 480/576 @ 15 fps • Dual-stream: MPEG-4 and MJPEG ◦ Primary stream MPEG-4 programmable up to 704 x 480/576 @ 25/20 fps ◦ Secondary stream MPEG-4/MJPEG (selectable) programmable up to 352 x 240/288 @ up to 15 fps
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) 802.1x
Quality of service (QoS)	Differentiated Services Code Point (DSCP) marking
Power	24 VAC, isolated external power supply

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Item	Specification
Power Consumption	15 W (max) Heater ON: 35 W (max)

Connectors

Table 2 describes the connectivity and connectors of the Cisco Video Surveillance 2530 Series IP Dome.

Table 2. Cisco Video Surveillance 2530 Series IP Dome Connectors

Item	Specification
Network connectivity	10/100 BASE-TX Ethernet with RJ-45 connector
Video	3.5-mm service connector, provides analog video (use with included mini cable with BNC adapter during installation)
Audio	• 3.5-mm audio jack—audio input for optional external microphone and audio output for option external speaker supported through Y-cable adapter • Two-way (full- or half-duplex), one-way or audio off
Alarm input	Two logic-level programmable inputs
Alarm output	Two logic-level programmable outputs
Power input	3-pin terminal

Software

Table 3 describes the primary features of the Cisco Video Surveillance 2530 Series IP Dome software.

Table 3. Cisco Video Surveillance 2530 Series IP Dome Primary Software Features

Item	Specification
Activity detection	Four user-definable motion detection areas; e-mail alert and FTP uploading of captured video or JPEG snapshots triggered by motion alert
Video format	NTSC and PAL
Day/Night settings	Auto or manual day/night operation with user-definable thresholds
Image settings	Configurable brightness, sharpness, contrast, saturation, 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	• Browser-based using Internet Explorer 6.x with SP2 and later • Multiple user access levels with password protection

Specifications

Table 4 provides specifications of the Cisco Video Surveillance 2530 Series IP Dome.

Table 4. Cisco Video Surveillance 2530 Series IP Dome Mechanical Specifications

Item	Specification
Housing	Metal base and polycarbonate transparent cover with tamper-resistant mounting IP-66 rated
LEDs	Power and Ethernet
Dimensions (W x H)	6.10 x 4.64 in. 155 x 118 mm
Weight	3.1 lb 1.4 kg

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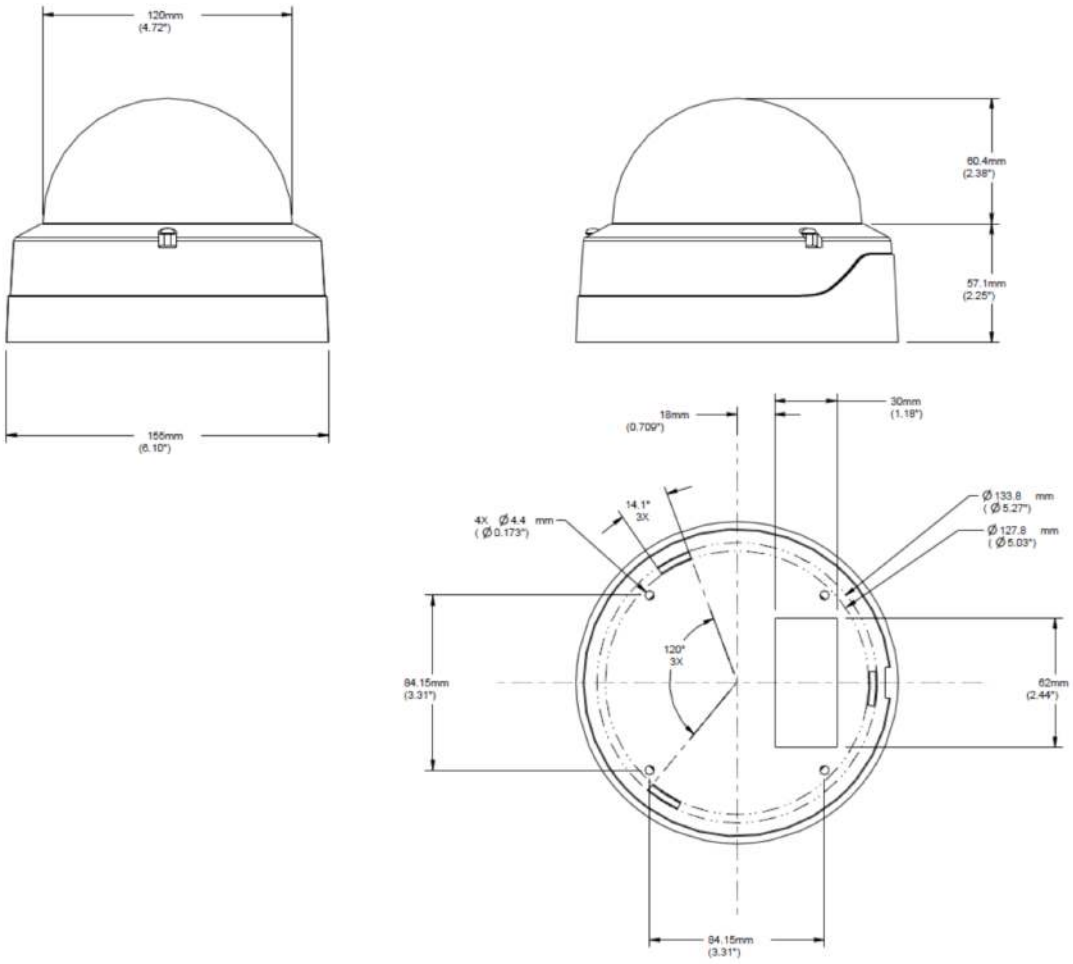
Item	Specification		
Standards Compliance	**Safety:** UL 60950-1 CAN/CSA-C22.2 No. 60950-1 EN 60950-1 IEC 60950-1 AS/NZS 60950-1	**EMC—Emissions:** 47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN6100-3-3 KN22 Class A CNS13438 Class A	**EMC—Immunity** EN50082-1 EN61000-6-1 EN55024 CISPR24 EN50130-4 KN immunity series
Operating temperature	–30 to 55°C -22 to 131°F		

Figure 2. Cisco Video Surveillance 2530 Series IP Dome dimensions without included conduit case.



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Package Contents

Table 5 describes the items that ship with the Cisco Video Surveillance 2530 Series IP Dome.

Table 5. Cisco Video Surveillance 2530 Series IP Dome Package Contents

Item
Cisco Video Surveillance 2530 Series IP Dome
Quick Start Guide
Regulatory Compliance and Safety Information
Accessories: • Mini cable with BNC adapter • Y-cable for audio input/output • Mounting template • Rubber sheet • Conduit case • 0.9 mm Allen wrench for locking/unlocking the lens focus ring • TORX security wrench for tamper-resistance screws • 8-32 x 5/16” screws (qty. 4) • Spare gasket (qty. 1)

Availability

The Cisco Video Surveillance 2530 Series IP Dome is available through Cisco Authorized Dealers.

Ordering Information

Table 6 lists the part numbers for the Cisco Video Surveillance 2530 Series IP Dome and accessories.

Table 6. Cisco Video Surveillance 2530 Series IP Dome Ordering Information

Part Number	Description
CIVS-IPC-2530V	Indoor/Outdoor Cisco Standard-Definition IP Clear Dome, D/N, 2.8–10 mm, Vandal Resistant
CIVS-IPC-2531V	Indoor/Outdoor Cisco Standard-Definition IP Smoked Dome,, D/N, 2.8–10 mm, Vandal Resistant
CIVS-IPCA-1004=	Dome, Clear, 2500 Series
CIVS-IPCA-1005=	Dome, Smoked, 2500 Series
CIVS-IPCA-1006=	Conduit base spare with extra gaskets, 2500 Dome series

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For More Information

For more information about Cisco Video Surveillance solutions, visit http://www.cisco.com/en/US/products/ps6712/index.html or contact your local account representative.

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