Cisco Video Surveillance 2800 Series Standard Definition PTZ IP Camera

Product Overview

Cisco® Video Surveillance 2800 Series Standard Definition PTZ IP Cameras are feature-rich cameras designed for superior performance, image quality, and ease of deployment. These cameras use a 1/4" SONY EX12E EXmor™ CCD Sensor that allows up to a 12x optical zoom while viewing and recording at D1 resolutions.

The cameras are equipped with an integrated camera optics assembly which offers 360° continuous pan rotation, a 220° tilt range, and 16 PTZ presets. In addition, the cameras support an SD/SDHC slot for local storage that can be used to store video if network connectivity is lost.

Cisco Video Surveillance 2800 Series IP Cameras support two simultaneous video streams. The streams can be compressed in MJPEG and H.264 formats across several resolution configurations, and can be configured in a variety of frame rates and bit rates for additional bandwidth administration. The cameras feature a ¼ inch SONY EXmor CCD Sensor for increased sensitivity and low light capability that allow the cameras to compensate in scenes where minimal light is present. In addition, the cameras feature built-in motion detection and wide dynamic range (WDR) that enables the system to compensate in scenes where dramatic contrasts in lighting are present.

For unparalleled simplicity of setup and monitoring, the cameras support the Cisco Medianet interface. When connected to a Cisco switch that also supports Medianet, the switch recognizes the camera as a video endpoint and then uses SmartPort macros to set the right network parameters for the video stream on the network. In addition, the camera can be automatically discovered and configured when connected to Cisco Video Surveillance Manager 7.0, thereby minimizing installation time and cost.

Cisco Video Surveillance 2800 Series Standard Definition PTZ IP Cameras offer a variety of benefits, including:

Full Range of Motion: The camera supports a continuous 360° pan rotation, 220° tilt angle range, and 12x optical zoom. The camera operator can remotely control the camera to track subjects or reposition the camera's field of view.

Camera Presets: Operators can program up to 16 preset locations that the camera can automatically cycle through while recording.

Wide Dynamic Range: The camera employs powerful digital imaging technology, allowing it to capture high-quality images in a wide variety of 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.

Outdoor Ready: The housing for the camera is IP66 rated, allowing for outdoor mounting without an additional enclosure.

Day/night operation: The camera provides true day/night functionality and includes an IR filter that automatically switches to night mode in low-light scenes. This function can be set to manual, automatic, or scheduled control.

Open API: Support for ONVIF 2.0 allows for standards based interoperability and communications with other ONVIF appliances.

Flexible power options: The camera supports Power over Ethernet (PoE+) 802.3at, High PoE, or 24 VAC power through an external power supply.

Simple Web Interface: The Cisco Video Surveillance 2800 Series supports Internet Explorer 8.0 for remote setup and administration.

Privacy Masking: Privacy masking is used to conceal user-defined privacy areas that cannot be viewed by an operator. The Cisco Video Surveillance 2800 Series supports up to four privacy masked regions. A masked area will appear on the screen as a solid, or user defined colored window.

Product Specifications

Table 1 lists the product specifications for the Cisco Video Surveillance 2800 Series.

Table 1. Product Specifications

General	
Available Languages	English
Supported Protocols	TCP/IP, UDP/IP (Unicast, Multicast IGMP), UPnP, DNS, DHCP, RTP, RTSP, NTP, IPv4, SNMP, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, mDNS (Bonjour)
Security Access	Password-protected
Certifications/Ratings/Patents	CE, Class A FCC, Class A UL/cUL Listed C-Tick
Signal Format	NTSC (CIVS-IPC-2830) PAL (CIVS-IPC-2835)
Scanning System	Progressive
Image Sensor	1/4-inch CCD
Lens	3.7 to 44 mm
Zoom	12x optical 12x digital
PTZ Speed	Pan speed: 0.05° to 450°/sec Tilt speed: 0.05° to 450°/sec
Horizontal Angle of View	56.3° (W) to 4.6° (T)
Minimum Illumination	Color: 0.9 lux @1/60 sec (NTSC), 1/50 sec (PAL) (F1.4, 50IRE) 0.05 lux @1/4 sec (NTSC), 1/3 sec (PAL) B/W: 0.01 lux @ 1/4 sec (NTSC), 1/3 sec (PAL)
White Balance	Automatic with manual override
Shutter Speed	1/4 sec to 1/10000 sec (20 steps) NTSC 1/3 sec to 1/10000 sec (20 steps) PAL Electronic
Iris Control	Automatic, with manual override
Gain Control	Automatic/OFF
Wide Dynamic Range	TBD
Motion Detection	Integrated

Electrical	
Ports	RJ-45 connector for 100BASE-TX
Cabling Type	Cat5 or better for 100BASE-TX
Input Power	AC: 28W (-40 to 55'C) PoE+: 18W (-5 to 55'C) High PoE: 28W (-40 to 55'C)
Alarm Inputs	4
Auxiliary Outputs	2
Pan Movement	360° continuous pan rotation
Vertical Tilt	220° (+20° above horizon)
Audio	
Streaming	Bidirectional; full- or half-duplex
Input/Output	Terminal connector
Compression	G.711 A-Law, G.711 U-Law
Video	
Video Encoding	H.264 and MJPEG

Video Streaming	• Single-stream H.264 or MJPEG up to 720 x 480 @ 30 fps (720 x 576 @ 25 fps)
	• Dual-stream H.264 and MJPEG
	  ◦ Primary stream programmable up to720 x 480 @ 30 fps (720 x 576 @ 25 fps)
	  ◦ Secondary stream programmable up to 720 x 480 @15 fps (720 x 576 @ 15 fps)

Resolution and Frame Rate (H.264)	Refer to Table 2
Resolution and Frame Rate (MJPEG)	Refer to Table 2
Weight	3.3 Kg
Operating Temperature	AC 24V: -40 to 55°C PoE+: -5 to 55°C High PoE: -40 to 55°C
Outdoor Rating	IP66 when installed properly

Table 2 lists the video stream support for the Cisco Video Surveillance 2800 Series for 4:3 aspect ratios.

Table 2.   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 480/576 352 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

Software

Table 3 describes the primary features of Cisco Video Surveillance 2800 Series IP Camera software.
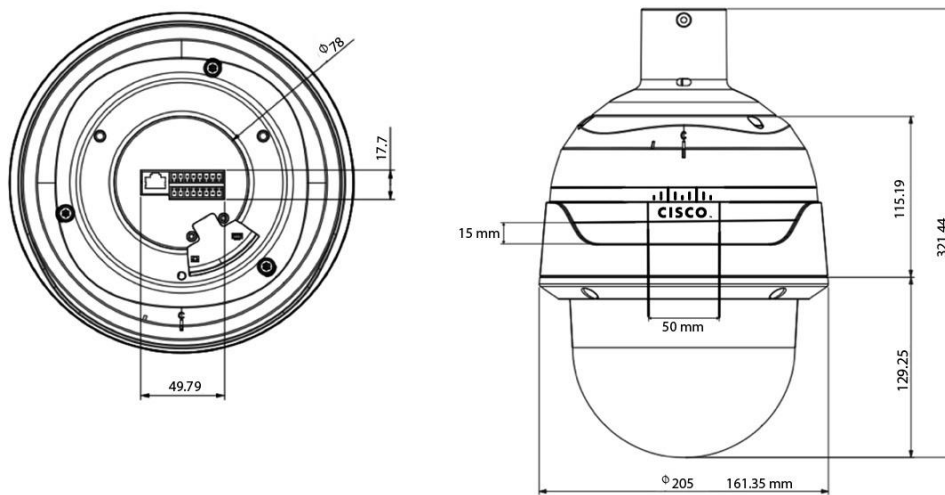
Table 3.   Primary Software Features

Item	Specification
Activity Detection	User-definable alerts with configurable sensitivities and thresholds, email alert, and HTTP notifications
Video Format	NTSC and PAL
Image Settings	White balance, automatic exposure, noise reduction, wide dynamic range, exposure compensation

Item	Specification
Overlay Capabilities	Time, date, and text
Selectable Bit Rate	Support for constant bit rate or variable bit rate
IP Filtering	Ability for users to enter a list of allowed or blocked IP addresses for viewing video and configuring camera settings
Discovery	Cisco Discovery Protocol and Bonjour Zero-Configuration discovery
Configuration	• Browser-based using Internet Explorer 8.0 or later • Two levels of user access with password protection

Figure 1 shows the dimensions of Cisco Video Surveillance 2800 Series IP Cameras. All dimensions are in millimeters.

Figure 1.   Cisco Video Surveillance 2800 Series IP Camera Dimensions

Warranty Information

Find warranty information on Cisco.com at the Product Warranties page.

Ordering Information

Availability

Cisco Video Surveillance IP Cameras are available through Cisco Advanced Technology Provider (ATP) program partners. Table 4 lists part numbers for the Cisco Video Surveillance 2800 Series.

Table 4.   Ordering Information

Product Name	Part Number
Cisco Video Surveillance SD Outdoor IP PTZ Camera, NTSC	CIVS-IPC-2830
Cisco Video Surveillance SD Outdoor IP PTZ Camera, PAL	CIVS-IPC-2835
20cm Extension Pipe with Adapter	CIVS-PA-EXT=
PTZ to 6KA Accessory Adapter	CIVS-PA-PTZADPTR=

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For More Information

For more information about Cisco Video Surveillance IP Cameras, visit http://www.cisco.com/go/physec or contact your local account representative.

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