Cisco Small Business PVC300 Pan Tilt Optical Zoom Internet Camera

No one can be everywhere at once. But for a small business owner, knowing what's happening in your storefront, warehouse, or parking lot at all times can make a difference in your company's physical and financial security. Whether you need to monitor your premises entrance, view employees as they work, guard against theft and vandalism during off-hours, or simply protect your business in the event of a workplace accident, you need effective remote video surveillance.

The Cisco Small Business PVC300 Pan Tilt Optical Zoom Internet Camera

The Cisco® Small Business PVC300 Pan Tilt Optical Zoom Internet Camera provides a feature-rich, highly flexible video solution for your business. It provides full pan, tilt, and optical zoom capabilities (Figure 1) to let you monitor any aspect of your business operations and virtually manage multiple sites from a central location. As an intelligent IP solution, the Cisco PVC300 also offers a wealth of advanced security, monitoring, and alerting capabilities that go far beyond what conventional closed-circuit television (CCTV) systems can provide. The Cisco Small Business PVC300 Internet camera lets you:

- Integrate alarms, door sensors, motion detectors, and other business and security systems into your video solution
- View live video of your business from anywhere, using an Internet-enabled PC or mobile phone
- Receive automatic alerts (including video clips or still images) whenever motion is detected on your premises after hours
- Locate specific dates, times, or incidents in your video archives in seconds, instead of having to manually pore over hours of analog video
- Easily and cost-effectively add new cameras, video storage, and security applications as your business evolves

Figure 1. PVC300 Pan Tilt Optical Zoom Internet Camera

None of these capabilities are possible with conventional CCTV systems that rely on analog video technology and proprietary, self-contained networks. The Cisco PVC300 Internet camera delivers all of them over the IP network you already have in place. With complete video monitoring and management software included, the Cisco PVC300 provides a complete state-of-the-art video solution, at a price small businesses can afford.

Features and Benefits

The Cisco Small Business PVC300 Pan Tilt Optical Zoom Internet Camera provides:

- **Optimal camera control:** The Cisco PVC300 features 2.6x optical zoom and a Sony progressive-scan charge-coupled device (CCD) sensor that provides exceptional image quality even in low light. With full pan, tilt, and zoom capabilities, you can remotely monitor your business from virtually any angle, providing a cost-effective alternative to deploying multiple fixed cameras.

- **Remote accessibility:** With an IP surveillance solution, you can access real-time video from any Internet-connected PC or mobile phone, and virtually manage your business's security and operational efficiency from anywhere.

- **Advanced application support:** The Cisco PVC300 features an integrated speaker output and microphone for two-way audio, as well as input/output ports to support a variety of applications. You can link your PVC300 video surveillance system with door sensors, motion sensors, alarms, lighting systems, phone systems, or virtually any other business system.

- **Easy installation:** The Cisco PVC300 includes easy-to-install ceiling brackets and Power-over-Ethernet (PoE) support, so you can power and control the camera with a single cable. The intuitive graphical user interface in the included video software makes it easy to deploy cameras and sensor systems and set up intelligent alerts.

- **Included video monitoring software:** Other IP surveillance systems require separate video monitoring software that can cost as much as $1500. The Cisco PVC300 includes a complete monitoring suite at no extra cost that lets you easily configure and control up to 16 cameras.

- **A complete surveillance solution:** The Cisco PVC300 is part of a growing family of IP surveillance cameras designed as a fully integrated component of your Cisco Small Business network. With a full portfolio of small business routing and switching, data storage, and telephony technologies, Cisco can provide a comprehensive video, voice, and data solution for your business.

Product Specifications

Table 1 gives the features and specifications of the Cisco Small Business PVC300 Internet camera.

Table 1.   Cisco PVC300 Features and Specifications

Features
• Pan, tilt, zoom camera with 2.6x optical zoom
• IPv6 support, Samba client
• 1/4-inch, progressive-scan CCD sensor delivers high-quality video
• Low light sensitivity with high-quality lens and sensor
• Audio input/output for external microphone and/or speaker
• I/O ports facilitate alarm triggers, power lights on/off, etc.
• PoE allows for flexible installation
• Dual codecs (MPEG-4 and MJPEG) supported simultaneously
• IP multicast support
• Real-Time Streaming Protocol (RTSP) video/audio streaming to unicast and multicast clients
• 4x digital zoom and 2.6x optical zoom
• Third-Generation Partnership Project (3GPP) allows viewing of video on a mobile device
• Motion detection with event notifications to an email
• Account or alarm log in the monitoring software
• JPEG snapshots at multiple resolutions that can be sent to an FTP server
• Real-Time video recording from the Web interface directly with one button recording
• PC-less event recording directly to Network Attached Storage via integrated Samba client

Specifications	
Standards	IEEE 802.3, IEEE 802.3af, IEEE 802.3u, IEEE 802.1p (QoS priority), IEEE 802.1Q (VLAN)
Protocols supported	TCP/IP, HTTP, Dynamic Host Configuration Protocol (DHCP), Simple Mail Transfer Protocol (SMTP), FTP, Network Time Protocol (NTP), Domain Name System (DNS), Universal Plug and Play (UPnP), Real-Time Protocol (RTP), Real-Time Streaming Protocol (RTSP), Dynamic DNS (DDNS), dual-stack IPv4 and IPv6, Session Initiation Protocol (SIP), Bonjour
Ports	Ethernet w/PoE, Microphone IN, Speaker OUT, Power (12V, 1A), general-purpose I/O
Buttons	Reset
Cabling type	Unshielded twisted pair (UTP) Category 5
LEDs	Power, Network
Camera type	Pan, tilt, zoom with 2.6x optical zoom
I/O ports	1 input control (2 pins) and 1 output control (2 pins)

Lens	
Sensor	1/4-in. Sony progressive CCD sensor
Illumination	1 lux at F1.9
Lens type	2.8 to 7.3-mm fixed iris
Focal length	0.6 m ~ infinity
Pan	-175 to +175 degrees
Tilt	-35 to 90 degrees
Zoom	2.6x optical zoom
Field of view	Horizontal: 73.4 to 28.7 degrees; vertical: 54.7 to 21.6 degrees
Video resolution	640 x 480 (Video Graphics Array [VGA]), 320 x 240 (Quarter VGA [QVGA]), 160 x 120 (Quarter-QVGA [QQVGA])
Frame rate	1 to 30 frames per second (fps) (selectable)

Setup, Configuration, and Management	
Web user interface	Built-in web user interface for easy browser-based configuration (HTTP)
Web browser	Internet Explorer version 5 or later with ActiveX support for viewing, recording, playback, and setting motion detection. Limited support for Safari and Firefox (no motion detection).
Event logging	Syslog
Web firmware upgrade	Firmware upgradable through web browser
Installation Wizard	Windows application for discovery and configuration of cameras

Video	
Dual codec	MPEG-4 simple profile, MJPEG, and simultaneous dual-stream
Snapshot	JPEG

Modulation	NTSC and PAL
Image settings	Brightness, Auto White Balance, Hue, and Saturation
Zoom	4x digital zoom
Video controls	Auto white-balance (AWB), auto-exposure (AE), Auto-Focus (AF)
Image control	Select video by quality, bandwidth, frame rate, variable bit rate, and constant bit rate
Format	3GPP for use with 3G phones
Included Video Monitoring System Software (SWVMS16)	
Monitoring/recording software	• Monitoring, recording, and playback for up to 16 cameras • Advanced search histogram or by time and date • Recording set up to record by motion trigger, manual, or schedule
Audio	
Summary	• 2-way audio, built-in microphone: 6 mm, -40 db + 3 db • Microphone input: 3.5-mm phone jack • Speaker output: 3.5-mm phone jack
Compression	G.726: 16 Kb; G.711: A-law and µ-law AAC, and GSM-AMR
Sampling rate	8 kHz
Default bit rate	16 Kbps
Alerts	
Motion detection	4 detection areas with individual sensitivity
Email alert	3 email addresses
FTP uploading	FTP server address and login settings
Schedule	Schedule by day or time
Triggers	Inputs 1, motion detection
Actions	Outputs 1, messaging, email, FTP
Security	
User list	User rights list to view video and/or control camera functions; Multi-level permissions (Administrator, Operator, and Viewer)
Username/password	Login authentication
Network	
Bonjour	Allow auto-discovery of the camera by other Bonjour devices
RTP/RTSP	RTP and RTSP allow for viewing from any client that supports these protocols, such as 3G phones or QuickTime clients
NTP	NTP keeps time of camera in sync with your network
SMTP	SMTP client allows video clips to be emailed
FTP	FTP client facilitates scheduling transfer of images to an FTP server
DDNS	DDNS facilitates accessing the camera by name, regardless of the camera's IP address
UPnP	Allows auto-discovery of the camera by other UPnP devices
IP filtering	Allow or disallow access by IP address
IPv6	Allow for next-generation IP addressing
Samba client	Increased compatibility with NetBIOS over TCP/IP, SMB, CIFS, etc.
Power	
Power options	IEEE 802.3af PoE: 48V/0.3A
Power consumption	7.2W
Environmental	
Dimensions	5.65 x 6.19 x 5.47 in. (143.5 x 157.1 x 139 mm)
Weight	1.15 lb (0.68 kg)
Power	External power adapter 12 V DC 1A 110~120V AC/ 60 Hz switching or PoE 48V/0.3A
Certification	FCC Part 15C Class B, CE, UL, EMC/EMI Part 15B Class B for U.S.
Operating temperature	0° to 115°F (0° to 50°C)

Storage temperature	-2° to 130°F (-10° to 60°C)
Operating humidity	20% to 85%, noncondensing
Storage humidity	0% to 90%, noncondensing

Package Contents

- Cisco Small Business PVC300 Pan Tilt Optical Zoom Internet Camera
- Ceiling mount brackets
- Power supply (12V 1A)
- 6-foot Ethernet cable
- Quick installation guide
- CD including setup wizard and user guide

Minimum Requirements

- Wired Ethernet network
- Network adapter with Ethernet network cable and TCP/IP installed per PC
- Switch/router to support multiple connection points
- Internet Explorer version 5 or later with ActiveX support for viewing. (Limited support for Safari and Firefox.)
- 2-GHz Pentium 4, or AMD Athlon Class CPU with 512 MB RAM
- 128-MB AGP video adapter
- Windows XP/Vista required for Installation Wizard

Ordering information for the Cisco Small Business Network Storage System

To order, find a Cisco Partner near you: http://www.cisco.com/go/partnerlocator.

Table 2.   Ordering Information

Part Number	Description
PVC300	Business Pan Tilt 2.6x Optical Zoom Internet Camera with audio and POE

A Proven Partner for Your Business

When it comes to the technology that keeps your employees, suppliers, and customers securely connected, it has to work. As the leader in networking and communications, Cisco is already helping small businesses around the world work better. And you can rely on us to help your business too.

With Cisco Small Business Solutions, you get the networking and communications technology you need, when and how you need it, so you can get more done in less time. We offer a broad range of small business products, which means that we're ready to be your technology partner—both today and as you grow.

You can work with a local business partner who understands your unique needs and can design, install, and maintain a secure, reliable network that you can afford. A network that's backed by Cisco, customized especially for your needs today, and offers a clear path to tomorrow.

Cisco Small Business Solutions: Technology you can trust to help your business succeed.

For More Information

For more information about the Cisco PVC300 Pan Tilt Optical Zoom Internet Camera, visit http://www.cisco.com/go/smb and http://www.cisco.com/go/surveillance.