

## High quality video surveillance platform with Power over Ethernet provides flexible installation

Linksys Business Series Surveillance products provide customizable ways for small business owners to monitor and protect their companies. These high-quality solutions can be optimized for many different applications and sites. Each camera can be quickly mounted utilizing the bracket included in the package. Its compact form factor also enables the camera to be put inside a protective enclosure for interior or exterior installations. The camera uses removable CS-mount lenses and can be customized with optional zoom, wide-angle, vari-focal, auto-iris, or other type lenses as required for a specific application or setting.

The PVC2300 is a Power over Ethernet (PoE) device so it can be powered from a PoE Switch or power injector via Ethernet cabling. This enables installations near ceilings on rooftops or anywhere where power outlets may not be available. The PVC2300 Camera can be mounted on any Pan-Tilt (PT) base that supports the Pelco\_D protocol and can be remotely rotated and controlled through an RS-485 interface. The PVC2300 also has two input and two output ports which can be used to connect the camera to an alarm panel, siren, Passive InfraRed (PIR) sensors, smoke detectors, lighting switch (on/off), door sensors, etc.

The PVC2300 uses a high-quality progressive scan CCD Sensor delivering good quality video. The CCD sensor also has low-light sensitivity so video can be captured even in very low light environments or during "near dark" times of day. Additionally, the camera incorporates an IR Cut Filter which, when used with a separate IR lamp, allows for video capture in total darkness.

The PVC2300 Camera supports dual codecs (MPEG-4 and MJPEG). Both codecs can be used simultaneously. MPEG-4 gives efficient bandwidth consumption with good quality compression and is optimal for real-time viewing of video. MJPEG gives optimal video quality with lossy compression making it ideal for large volume storage to a NAS device.

The PVC2300's audio capabilities include 2-way audio, embedded microphone, external speaker and microphone ports, and voice compression. With extensive feature support like IP Multicast, RTSP, RTP, and 3GPP, video can be viewed from multiple endpoints and client applications like 3G phones, and Quicktime clients on PCs or WiFi phones. Support for multiple network protocols like 802.1p priority, 802.1q VLANs, and Dynamic DNS, make the solution ideal for multiple IP surveillance applications. The 2300-series cameras can also be managed securely using HTTPS.

Linksys Business Series Surveillance Cameras are also Linksys One Ready. That means they include the necessary firmware to be integrated into a Linksys One data or data/voice network.

Box camera with PoE, interchangeable lenses, and I/O ports allow for flexible installation for multiple applications

High quality CCD sensor with low light sensitivity and an IR Filter switcher provides optimal video image under multiple conditions

Simultaneous dual CODEC provides optimal combination of viewing and storage of video

Two-way audio, IP multicast, 3GPP, and lots of other advanced features make this solution ideal for surveillance deployments



PVC2300

## Business Internet Video Camera with Audio and POE

## Features

- Standard box-type camera allows for flexible installation
- Mounts in a standard outdoor or indoor enclosure
- Provides controls for mounting on a Pelco pan/tilt base and control movement remotely
- Removable CS-mount lens
  - camera can be customized for multiple applications
  - zoom lens, wide-angled, vari-focal, auto-Iris lenses, etc
- 1/4" Progressive scan CCD sensor delivers good quality video
- Low light sensitivity with high-quality lens, sensor, and a programmable IR-cut filter functionality
- Audio input/output for external microphone and/or speaker
- IO ports facilitates alarm triggers, turn on/off of lights, etc
- Power over Ethernet (PoE) allows for flexible installation
- Dual CODEC (MPEG-4 and MJPEG) supported simultaneously
- IP Multicast support
- RTSP video/audio streaming to unicast and multicast clients
- 4x Digital Zoom – can also use optical zoom with appropriate interchangeable lens

# Business Internet Video Camera with Audio and POE

## Specifications

Model	PVC2300
Standards	IEEE802.3, IEEE802.3u, IEEE802.1p (QoS Priority), IEEE802.1q (VLAN)
Protocols Supported	TCP/IP, HTTP, DHCP, SMTP, FTP, NTP, DNS, UPnP, RTP, RTSP and DDNS
Ports	Ethernet w/POE, Microphone IN, Speaker OUT, Power (12V, 1A), GPIO, 4-pin IRIS port
Buttons	Reset
Cabling Type	UTP CAT 5
LEDs	Power, Network
Camera Type	Box
IO ports	RS-485 x 1 (2 Pins) - Supports Pelco "D" Protocol Commands Input Control x 2 (2 Pins) Output Control x 2 (2 Pins)

## Lens

Sensor	1/4" Progressive CCD Sensor
Illumination	0.4LUX@F1.7
Lens type	CS-Mount lens, Fixed Focus; Adapter also Included for Lenses that Require more Distance Between Sensor and Lens
Focal Length	500mm~Infinity (for Included Lens)
Field of View	60° (for Included Lens)
Video Resolution	640x480 (VGA), 320x240 (QVGA), 160x120 (QQVGA)
Frame Rate	1 to 30 FPS (Selectable)
Iris	Provides Iris Control for CS-Mount Auto-Iris Lens when Attached

## Setup/Config

WebUI	Built-In Web UI for Easy Browser-Based Configuration (HTTP)
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## Management

Web Browser	Internet Explorer 5.x, or Above; Netscape, Firefox
Event Logging	Event Logging (SYSLOG)
Web F/W upgrade	Firmware Upgradable Through Web-Browser

## Video Compression

Dual Codec	MPEG-4 Simple Profile MJPEG Simultaneous Dual-Stream
Snapshot	JPEG
Modulation	NTSC and PAL
Image Settings	Brightness and Contrast
Zoom	4x Digital Zoom
Night Vision	IR Cut filter for Low Light
Video Controls	Auto-White-Balance(AWB), Auto-Exposure(AES)
Image Control	Select video by Quality, Bandwidth, and Frame Rate
Format	3GPP for use with 3G Phones

## Alerts

Motion Detection	4 Detection Areas with Individual Sensitivity
Email Alert	3 E-mail Addresses
FTP uploading	FTP Server Address and Login Settings
Instant Messaging	Jabber Client Support
Scheduled	Schedule by Day or Time
Triggers	Inputs 1, Input 2, Motion Detection
Actions	Outputs 1, Output 2, Messaging, E-mail, FTP

## Audio

Summary	2-Way Audio
Built-in Microphone	6mm, -40db + 3db
Microphone input	3.5 mm Phone jack
Speaker output	3.5 mm Phone jack

- 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
- Overlay watermarks/graphics and text
- Up to 10 unicast users and unlimited multicast users
- Built-in web server for remote access over IP
- Secure control over HTTPS
- Included software for monitoring and recording up to 16 cameras simultaneously

Compression	G.726 - 16K, G.711 A-law and $\mu$ -law
Sampling Rate	8 KHz
Default Bit Rate	16Kbps

### Management Utility

Monitoring/Recording Software	Monitoring and Recording for up to 16 Cameras Advanced Search Histogram or by Time and Date Recording Set Up to Record by Motion Trigger, Manual or Schedule Recording and Playback
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### Security

User List	User Rights List to View Video and/or to Camera Control Functions
Username/password	Logon Authentication 20 Character Username and 8 Character Password
Kensington lock	Physical Security Option

### Network

RTP/RTSP	Real-Time Protocol, Real-Time Streaming Protocol Allow for Viewing From any Client Supporting these Protocols, like 3G Phones or Quicktime Client
NTP	Network Time Protocol Keeps Time of Camera in Sync with Your Network
SMTP	Simple Mail Transfer Protocol Client Allows Video Clips to be E-Mailed
FTP Client	FTP Client Facilitates Scheduling Transfer of Images to an FTP server
DDNS	Dynamic DNS Facilitates Reaching the Camera by a Name Irrespective of Camera's IP Address. Supports DynDNS, TZO, and 3322 Dynamic DNS Services
UPnP	Allows Autodiscovery of the Camera by Other UPnP Devices
IP Filtering	Allow or Disallow Access by IP Address

### Power

Power Options	IEEE 802.3af Power over Ethernet (PoE) - 48V/0.3A External Power Adapter: 12V/1A, 110~120V AC/60Hz, Switching
Power Consumption	10W

### Environmental

Dimensions	4.72" x 2.99" x 1.81" (120 x 76 x 46 mm)
Unit Weight	1.15 lb (0.52 kg)
Power	External Power Adapter 12 VDC 1A 110~120VAC/60Hz Switching or PoE 48V/0.3A
Certification	FCC part 15C Class B, CE, UL, EMC/EMI Part 15B Class B for US
Operating Temp.	32 to 122°F (0 to 50°C)
Storage Temp.	-4 to 158°F (-20 to 70°C)
Operating Humidity	10% - 80%
Storage Humidity	0% - 19%

### Package Contents

- PVC2300 Business Internet Video Camera with Audio and PoE
- Stand Kit
- Power Supply (12V 1A)
- 6' Ethernet Cable
- CS-Mount Lens Adapter Ring for Wider Focal Length Lens
- Allen Wrench
- Quick Installation Guide
- Setup CD

### Minimum Requirements

- Wired Ethernet Network
- Network Adapter With Ethernet Network Cable and TCP/IP Protocol Installed Per PC
- Switch/Router To Support Multiple Connection Points
- Internet Explorer 5.x or above with ActiveX Support for Viewing
- Microsoft Windows Vista, XP, 2000, ME or 98SE
- 2GHz Pentium4, or AMD Athlon Class CPU with 512 MB RAM
- 128MB AGP Video Adapter

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