User Scenarios of Surveillance Solutions

SRW224G4P – PoE Switch

NSS4100 – NAS Storage

RV082 – VPN Router

PVC2300 – Ethernet IP camera
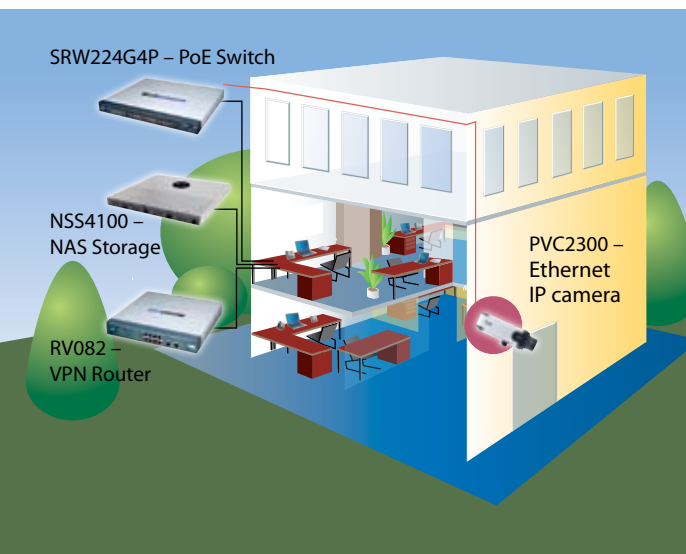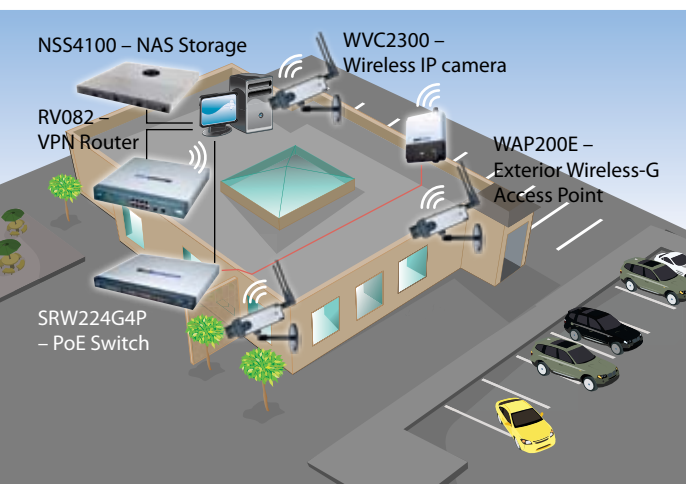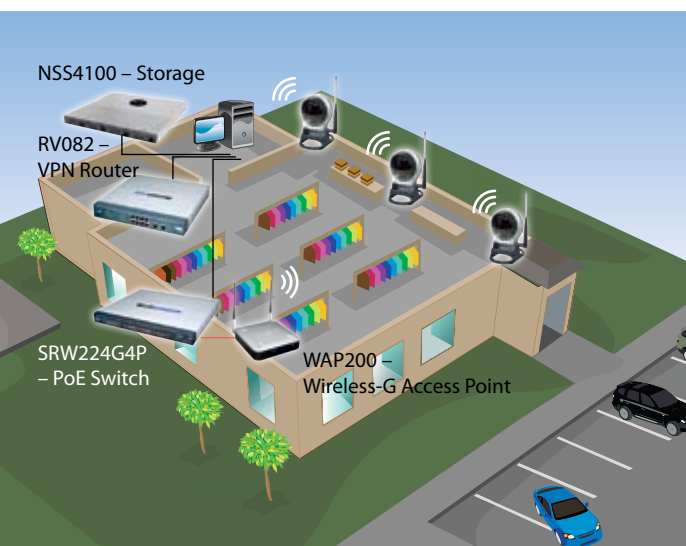
Trading Company

Most small businesses go without a dedicated receptionist and the owner's assistant will do the job of greeting visitors. In many cases, the entrance door cannot be seen from the assistant's desk, and companies aren't too keen on people wandering into their office unseen.

The answer is simple, effective, and affordable: a Linksys PVC2300 video surveillance camera mounted outside the entrance door. Installation is easy: All it needs is a network link to a port of the company's router. Power can be supplied through the network cable with the help of Power over Ethernet (PoE). The assistant can see who is calling on his or her computer monitor and, with the help of a microphone and speaker attached to the cameras two-way audio interface, can talk to the arriving visitor. And he or she can operate the door lock remotely via the camera's IO port to let the visitor in.

NSS4100 – NAS Storage

WVC2300 – Wireless IP camera

RV082 VPN Router

WAP200E – Exterior Wireless-G Access Point

SRW224G4P – PoE Switch

Car Dealer

Which car dealer would not like to pride himself of a spacious sales lot full of cars to choose from? He might find it rather difficult to watch over it—making sure at all times that none of his cars are scratched or perhaps even stolen. Video surveillance can help solve those problems. And with a Linksys surveillance solution, it is affordable, too. Up to 16 Linksys WVC2300 wireless video surveillance cameras can be deployed in one system, safely housed in outdoor enclosures on pan/tilt/zoom bases. There is no video or network cabling to install, just one or more Linksys WAP200E exterior access points linking the cameras to the company network. And after hours the owner can keep an eye on his sales lot from his home or have the cameras alert him if they detect any unauthorized activity.

NSS4100 – Storage

RV082 – VPN Router

SRW224G4P – PoE Switch

WAP200 – Wireless-G Access Point

Retail Store

Shrinkage, or theft, is a constant challenge for any store owner. But as often as not, a costly traditional CCTV system is beyond the financial reach of many small retail businesses. Not necessarily with Linksys surveillance solutions. Delivering excellent value for money, one or more Linksys wireless WVC200 surveillance cameras are quickly installed with no cabling and automatically keep a watchful eye on those hidden corners where shoplifters are likely to try their luck. And after closing time, the cameras stay awake all night, alerting the shop owner at home as soon as they detect suspicious movements in his store.

NAS for Video and Audio Storage

No dedicated video or audio storage equipment is needed with Linksys IP based surveillance solutions. Linksys network attached storage (NAS) units are well suited to store snapshots, video clips or streaming video sequences as well as accompanying audio data recorded by the surveillance cameras. Depending on company size, nature of the video surveillance solution and other parameters, Linksys NSS4x00 or NSS6x00 type NAS units will provide for adequate reliable, high-performance storage capacity.

NSS4100 Network Attached Storage

Software supplied with Linksys surveillance solutions enables multiple camera monitoring and recording to mass storage on the network with advanced search by time and date. Recording can be set up to record by motion trigger, on-demand or scheduled recording. The Windows Media Player can be used for playback eliminating the need for a proprietary player.

Linksys for Business Efficiency and Peace of Mind

For business efficiency and peace of mind, Linksys Business Solutions offer leading edge technologies at prices well within the reach of budget minded businesses. They can reduce operational complexity and deployment costs while increasing network performance and reliability. Linksys products are well equipped to mitigate the threats endangering today's networks. Strong security features help block attacks originating from outside and within the organisation. Linksys Connected Office solutions are backed by tech support and competitive warranties and provide far-reaching investment protection through the Linksys to Cisco Trade Up Program.

Support

For a complete list of local Linksys Sales & Technical Support contacts, visit www.linksys.com

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Linksys by Cisco

BUSINESS SERIES
IP Surveillance Cameras

Keep An Eye On Your Business

With Linksys Surveillance Solutions

Today, security is a major issue for organisations of all sizes including small businesses. Remote video surveillance has proven to be one of the key methods for securing business premises and controlling admission. This is true for retail outlets where theft and other criminal offences need to be prevented, for business premises that require monitoring after business hours, as well for any company where indoor or outdoor areas need to be watched or admission of visitors is controlled from a central point.

With the help of IP technology, video surveillance systems can be deployed and operated at significantly lower cost than with earlier CCTV technology and in many cases, this has enabled small organisations to consider video surveillance solutions for the first time. IP video technology is designed to integrate into existing data network infrastructures, both wired and wireless. It requires no separate network or dedicated storage equipment and—equally important for small businesses with limited budgets—virtually no specialized support beyond that needed for the existing IP network environment.

And above that, video surveillance based on IP technology is far more versatile than conventional CCTV systems, allowing snapshots, video clips, and streaming video to be viewed on a broad range of end devices throughout the network or at any place in the world using an Internet connection.

Linksys Connected Office

With a flexible, robust, and cost-effective portfolio of products designed specifically for Small Businesses, Linksys Connected Office products provide an ideal framework for effective surveillance solutions using Linksys IP surveillance cameras.

Unlike products and systems that meet the needs of either large companies or private homes, the Linksys Connected Office strategy is to deliver a complete system for the data, voice, wireless, mobility, video and storage needs of a small business—and now, for their security needs, too. Linksys Connected Office focuses on small business owners and delivers solutions for their unique data processing and communication challenges. Video surveillance solutions using Linksys IP cameras serve as an ideal complement for small business networks built from this portfolio. Linksys IP cameras integrate seamlessly into Linksys Connected Office networks and help build powerful, versatile, and effective video surveillance solutions.

Linksys Video Surveillance Cameras

- Powerful, feature-rich, IP video cameras
- Suitable for low light conditions
- Motion detection with pre and post event recording
- One-way or two-way audio
- IO ports for alarm triggers, door control etc.
- Multiple camera monitoring and recording
- Indoor and outdoor operation
- Wireless and Power over Ethernet (PoE) models
- Competitively priced

PVC2300

The PVC2300 is a competitively priced, high performance Power over Ethernet IP camera with a rich set of advanced features.
- Low light capability
- Flexible installation
- 2-way audio and control ports
- Indoor/outdoor operation

WVC2300

The WVC2300 is a competitively priced, high performance wireless IP camera with a rich set of advanced features.
- Low light capability
- Flexible installation
- 2-way audio and control ports
- High security

WVC200

The WVC200 is an affordable, self-contained high value wireless IP camera with built-in pan/tilt/zoom functionality.
- Self-contained unit
- Support for MPEG-4 and MJPEG coding
- Pan/Tilt/Zoom capability
- Autopatrol and motion detection

Model	PVC2300	WVC2300	WVC200
Sensor	CCD	CCD	CCD
Lens	Standard CS-mount	Standard CS-mount	Fixed glass
Illumination	0.4 Lux @ F1.7	0.4 Lux @ F1.7	2 Lux @ F2.0, IR filter cut
Audio	In/out	In/out	In
Pan/tilt/zoom	4 x digital zoom, serial port for PTZ base*	4 x digital zoom, serial port for PTZ base*	Pan/tilt, 2 x digital zoom
Motion detection	Multiple selectable areas, URL or video clip per e-mail	Multiple selectable areas, URL or video clip per e-mail	Video clip per e-mail
Auto patrol	n/a	n/a	9 points selectable
CODEC support (simultaneous)	MPEG-4, MJPEG	MPEG-4, MJPEG	MPEG-4, MJPEG (not simultaneously)
IP unicast/multicast	Multicast, 10 user unicast	Multicast, 10 user unicast	10 user unicast
Mobile device support	3GPP	3GPP	–
Wireless Security	n/a	WPA2	WEP/WPA
Ports	Ethernet, audio in/out, IO (control), power	Ethernet, antenna, audio in/out, IO (control), power	Ethernet, antenna, audio in, power
Power supply	External. PoE	External	External
Enclosure	Indoor / outdoor**	Indoor / outdoor**	Indoor
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F)	0 °C to 50 °C (32 °F to 122 °F)	0 °C to 45 °C (32 °F to 113 °F)
Storage Temp.	-20 °C to 70 °C (-4 °F to 158 °F)	-20 °C to 70 °C (-4 °F to 158 °F)	-20 °C to 70 °C (-4 °F to 158 °F)
Operating Humidity	10% - 80% Non-Condensing	10% - 80% Non-Condensing	10% to 80% Non-Condensing
Storage Humidity	0% - 90% Non-Condensing	0% - 90% Non-Condensing	0% to 90% Non-Condensing

* PTZ base is not included with the camera

** Cameras mounted outdoors should be installed in an IP66-certified enclosure to protect the camera from the elements, while maintaining acceptable operating temperatures. If an enclosure is used, an external microphone is required for audio.

Seamlessly Integrated Surveillance Solutions

With powerful and versatile routers, wireless access points, and network attached storage (NAS), Linksys Connected Office equipment lays the base for a high-performance, reliable data, voice, and video communication system meeting the needs of even the most demanding small business setups. Linksys video surveillance solutions integrate seamlessly into Linksys network environments, leveraging the existing network investment with limited additional investment required.

Within the company's network environment, Linksys surveillance cameras simply connect to a switch that forms part of this infrastructure. The PVC2300 for instance can be powered by a Power over Ethernet switch. Wireless cameras need an access point so link up via a wireless network. All Linksys SRW Business Switches are well suited to accommodate Linksys surveillance cameras, likewise all SLM, SFE, and SGE type switches.

The wireless camera models WVC2300 and WVC200 readily connect to the Linksys business wireless access points WAP200, WAP200E, and WAP4400N. High-level encryption (WPA2 or WEP/WPA, depending on camera model) provides for secure wireless links.

To access surveillance video from a remote location or from the Internet, you can open ports on a router, and then optionally create password protected accounts to manage access to the cameras or leave them open for the anyone to see. Support for Dynamic DNS enables access to cameras by name even when using dynamic IP addresses. Linksys Business Routers well suited for the job include the RV082, RV042, and RVL200 as well as the WRV200 and the WRVS4400, both including wireless access.

Every camera will send its pictures to up to ten users in the network via unicast and, with the PVC2300 and WVC2300 models, to any number of users using multicast. The network also transmits audio signals recorded at the camera sites to users watching the video recordings or to video storage units. Pan, tilt, and digital zoom controls as well as other control and audio output signals are also part of the features (depending on camera model). In security mode, the cameras can alert users over the network whenever they detect motion, sending an e-mail with the camera's URL or an enclosed video clip.

Product Reference Advisor

If you need:		Then choose:		
		Product No.	Description	Benefits
VPN		WRVS4400N	Wireless-N* Gigabit Security Router with VPN	Get a Gigabit security router with IDS, IPS and latest draft N wireless incl. Business security features and VPN
		WRV200	Wireless-G VPN Router with RangeBooster	Router with Wireless and VPN, multiple SSID's to separate Wireless traffic, MIMO for increased range and performance
		RVL200	4-Port SSL/IPSec VPN Router	Router with SSL VPN, use for example IE to establish a secure SSL VPN, plus one IPSec tunnel for branch to branch communication
Wireless AP		WAP4400N	Wireless-N* Access Point, PoE	Latest draft N technology for enhanced coverage and speed, including business security features, can be powered via PoE
		WAP200	Wireless-G Access Point, PoE and RangeBooster	Access Point with business class feature set, multiple SSID's, PoE and latest security features
		WAP200E	Wireless-G Exterior Access Point, PoE	Outdoor Access Point with NEMA rating, multiple SSID's, business security features and PoE
PoE Switch		SRW208P	8-Port 10/100 Ethernet Switch with WebView and PoE	Fully managed workgroup switch with PoE, also supports VoIP
		SRW224G4P	24-port 10/100 + 4-port Managed Gigabit Switch, PoE and SNMP	Fully managed core switch with PoE, QoS and advanced management functions
		SFE2000P	24-port 10/100 Stackable Ethernet Switch, PoE	Stackable L2+ switch with PoE, build high available core switching infrastructure with enhanced QoS and management
Storage		NSS4100	4 Bay Gigabit Network Storage System - 15 CIFS	Storage system with 4 x 250GB, 15 concurrent CIFS users, share data, backup and protect your data and intellectual property, RAID 0, 1, 5, 5+spare, 10 and JBOD, MS-Domain and MSDFS support
		NSS6100	4 Bay Gigabit Network Storage System - 75 CIFS	Storage system with 4 x 250GB, 75 concurrent CIFS users, share data, backup and protect your data and intellectual property, RAID 0, 1, 5, 5+spare, 10 and JBOD, MS-Domain and MSDFS support

* The Linksys Wireless-N products are based on the 802.11n draft specification, which is a pre-standard definition.
To view the full range of Linksys Connected Office products, please go to www.linksys.com