

# Remote Video Surveillance (RVS) Reference Design

www.streaming-networks.com

## OEM-ready system for security and surveillance applications



Be there...

... from anywhere



### OVERVIEW

The Streaming Networks remote video surveillance (RVS) reference design is a complete, OEM-ready system that lets people monitor a location from anywhere in the world.

### REMOTE CONNECTIVITY

Consisting of a remote unit and PC-based viewing software, the reference design supports up to four cameras and uses a standard telephone connection to transmit video images to a remote PC or laptop. With a simple dial-up connection, the reference design enables live images from the remote unit's location.

Homeowners can view their property when they're at work or traveling. Businesses can inspect distant locations without making a trip. The design can also be used to verify false alarms, or, in case of an emergency, to view a location before entering.

### COMPONENTS AND IMPLEMENTED STANDARDS

The hardware portion of the reference design, the remote unit, includes a Philips PNX1300 Nexperia media processor (with TriMedia VLIW processor core), an H.263 video encoder, a V.34 soft modem, and a phone jack. There are interfaces for CVBS, S-Video, and digital video input. The encoder supports CIF, QCIF, and SQCIF resolutions, offers quality and frame-rate control, and manages camera selection.

### SOFTWARE APPLICATION

The PC-based viewing software, a Win32 package that runs on a standard PC or laptop, lets the user switch between cameras, change resolution or frame rate, or even record selected video clips onto the hard disk for later viewing. The video display can be set to actual size or scaled up to VGA.

### MODULAR DESIGN

Accompanied by a modular software stack, the reference design is easy to upgrade with enhanced features like camera control, advanced video encoding, and toll-quality audio.

### Dynamic Interface

Supports all standard video input interfaces

### Remote operation

Can be configured from remote location

### User-friendly operation

Very easy to use and configure

### KEY FEATURES

- Fully functioning system for remote security and surveillance applications
  - Uses standard telephone line to transmit video images anywhere in the world
  - Up to four cameras in a single location
- Remote unit
  - Philips PNX1300 Nexperia media processor (with TriMedia VLIW processor core)
  - CVBS, S-Video, or digital video inputs
  - H.263 video encoder (CIF, QCIF, and SQCIF resolutions)
  - V.34 soft modem
- PC-based viewing software
  - Win32 application for display and control
  - H.263 video decoder
  - Flexible viewing options
  - Record video clips onto the hard disk
- Modular software stack for easy upgrades and enhancements

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