

## ► Real-Time SurveillanceWatch

Real-Time SurveillanceWatch (RTSW) provides real-time surveillance of multiple remote sites on an interactive web site. Digital cameras capture high-resolution images which are displayed on web pages allowing World Wide Web clients to view these sites. The design of the RTSW makes use of the latest Internet technologies.

### Features

The RTSW features are :

- Capture, display and storage of high-resolution images
- Display of video in real-time (video streaming)
- Selection, configuration and display of multiple cameras
- Display of local and/or remote cameras over LANs, WANs, PSTN and Internet
- Use of commercial image compression standards
- Centralised or distributed control centres
- Control of zoom, focus, pan and tilt of remote cameras from local or remote control centers
- UPS (Uninterruptable Power Supply) provides orderly shutdown and start-up in the event of a power failure

Optional features of the RTSW :

- Image processing of captured images for surveillance purposes, for example feature extraction
- Delta frame motion detection

### Applications

- Monitoring or surveillance of remote sites
- Security systems

### Operation

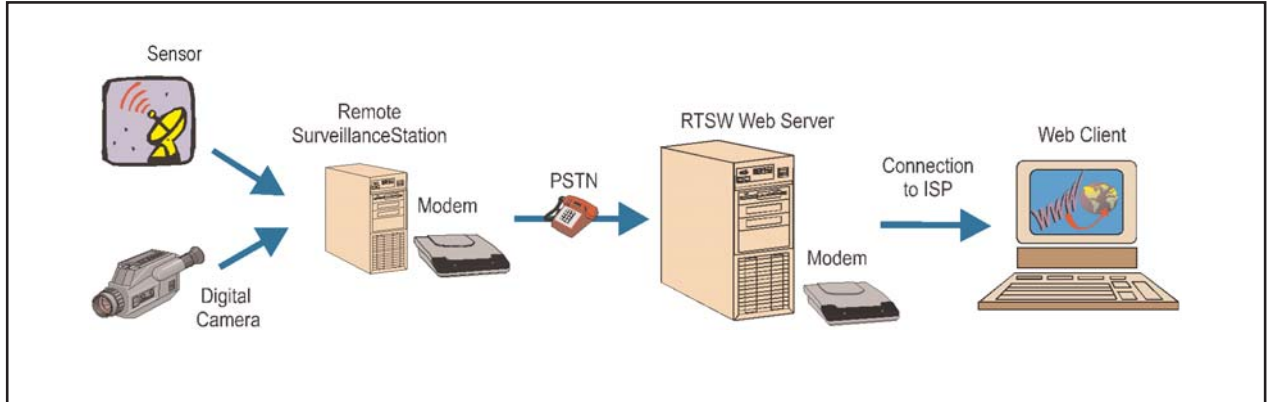
Custom software executing at local or remote stations extracts data and images from the local or remote stations and generates data which is then transmitted via modem on leased or dial-up line to the RTSW Server. Local operators and/or remote WWW clients may then view the data and images.

### Architecture

The RTSW consists of the following components :

- Data Interface (for local sensors other than cameras)
- Digital Camera
- Camera Controller with Pan/Tilt (optional)
- Uninterruptable Power Supply (UPS)
- Remote Surveillance Station with modem
- Dial-up or leased line connectivity to the RTSW Server via the Public Switched Telephone Network (PSTN)
- Leased line or dial-up connection via an Internet Service Provider (ISP) to Web Clients

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**RTSW Architecture**

<b>Specifications</b>	
<b>Weatherlink Data Logger</b>	Provides an interface between a personal computer and remote sensors
<b>Digital Camera</b>	Up to 640 x 480 pixel resolution, using MPEG-2 software compression techniques
<b>Camera Controller (optional)</b>	Pan 10° to 350° Tilt +12° to -90° Zoom and focus also controllable 700 VA UPS
<b>Remote PC</b>	Pentium Processor 64 Mbytes RAM SVGA Video Card 2 Parallel Ports, 4 Serial Ports Windows NT V4.0 Framegrabber card suitable for multiple sensors
<b>Modems</b>	Dial-Up Modems : 33,6 K modems (56 K enabled) Leased Line Modems : 4-wire analogue line modems or digital leased line modems
<b>Web Server</b>	Pentium Processor 64 Mbytes RAM SVGA Video Card 2 Parallel Ports, 8 Serial Ports Windows NT V4.0 Server