



e-Watch®

ENC-310



e-Watch® Encoder

Part of the e-Watch® Situational Awareness System

If you want to add IP capabilities to your existing CCTV cameras or need a way to integrate legacy CCTV with your new e-Watch IP video surveillance system, the e-Watch Encoder is the way to go. The Encoder turns a standard NTSC surveillance camera into an e-Watch device, helping to preserve your initial investment while expanding the capabilities of your system.

Not the average surveillance device

What makes the e-Watch devices different from other surveillance cameras are the processing power and flexibility built into the devices themselves. For example, rather than feeding either NTSC or digital video back to a single point for distribution, e-Watch encoders actually perform the analog-to-digital conversion, compress the video on board, and send multiple simultaneous video streams onto the network for viewing and archiving. As well as providing IP video onto your network, the encoders are "smart" — they allow for internal motion detection and support Activity Gated Storage™ capabilities to reduce overall storage requirements and significantly reduce the time it takes to recreate an event.

Viewing flexibility

Users on any system have varying requirements for video. Local users may need to see high-resolution full-motion video. Remote users may need full-motion video, but at a lower bandwidth. And, both users need to view at the same time. With e-Watch encoders, that's easy. e-Watch administrators can configure the encoders to best meet the needs of their individual installations and can choose one or all of the following simultaneous, industry-standard video options:

1. High-resolution full-motion video (900 kbps)
2. Quarter-resolution full-motion video (110 kbps), or
Quarter-resolution MJPEG (variable)
3. JPEG stills for archive (variable)

Each stream can be turned on or off to suit the viewing/archiving requirements at your site. Motion video streams are sent using Multicast, lowering overall bandwidth requirements because the camera produces a single output stream in each format no matter how many people want to view the video. Still images are archived utilizing a TCP socket connection to the e-Watch server. Bottom line? Both local and remote viewers can see the appropriate video stream without conflict or an increase in bandwidth output from the cameras - a totally non-blocked architecture for your system.

Multicast and Unicast video

Support for power via 24VAC local

Industry standard compression formats - JPEG, MJPEG and MPEG

Power PC Processor

Internal motion detection

Static or dynamic IP addressing

LED indicators for status reporting

10/100 Ethernet interface

Expansion slots for option cards

Easy installation and maintenance

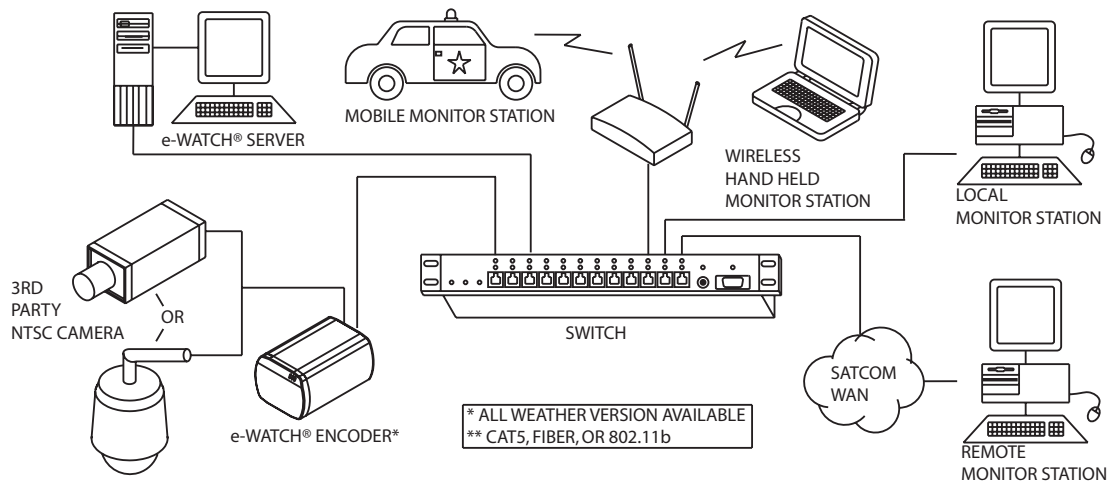
And, speaking of system design, e-Watch makes it easy to install encoders by offering a choice of ways to power them. You can either provide 24VAC power or provide in-line power via CAT5. In addition, firmware upgrades can be accomplished via the LAN. And, unlike standard CCTV cameras where adjustments tend to drift over time, the encoder allows viewers to make electronic adjustments to the digitized video to assure the best picture quality — an especially handy tool when cameras are mounted in places that are difficult to reach.

The e-Watch® Encoder can be used with indoor or outdoor cameras. It's the right choice when you want to preserve the investment you've made in CCTV cameras or when you need to incorporate a special-use camera into your e-Watch system. Used in conjunction with SiteWatch™ Situational Awareness Software, the Encoder is part of a comprehensive, scalable, and flexible IP-video surveillance system that meets the unique needs of both security and IT professionals in your organization.

Technical Specifications†

- Dimensions: 6.25" x 4.25" x 3.25"
- Weight: 23 ounces
- Environmental requirements: 0° to 50° C non-condensing atmosphere, no direct sunlight
- Dual-core Power PC Processor
- 10/100 Ethernet interface — IEEE 802.3, 802.3U, 802.3i
- Power via 24VAC/9-42VDC
- BNC Connector for NTSC input
- Simultaneous encoding of video formats:
 - 704 x 480 JPEG (2 fps to 10 spf)
 - 176 x 112 MJPEG (1-15fps, 10-350kbps), or 176 x 112 MPEG-1 (30 fps, 110 kbps)
 - 352 x 240 MPEG-1 (30 fps, 900 kbps)

†Technical Specifications subject to change without notice



e-Watch Corporation
7800 IH-10 West, Suite 720
San Antonio, TX 78230
USA

For more information:

email:
sales@e-watch.com

tel: (210) 349-2000
fax: (210) 341-1020

website:
www.e-watch.com

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