



- Cost Effective
- Integrates with Your Existing SCADA Systems
- Operates over Your Existing Communications
- Easy to Use
- Secure
- Scalable

## Real-time Video Surveillance for Water Facilities

### Combat costly and disruptive facility intrusions

For many years, Water System Operators have been plagued with a variety of natural or malicious intrusions at various water facilities, including wells, pumping stations and storage towers. Since 9/11/2001, the Department of Homeland Security and the Environmental Protection Agency have brought new focus on the requirements to provide secure, safe and reliable water supplies.



Hardening of the physical facilities, as indicated by vulnerability assessments and emergency response plans, can be very expensive and in some cases, impractical. The Longwatch Surveillance System provides a cost-effective and state-of-the-art answer to this problem, while making use of your current investments in existing, secure SCADA system infrastructure.

### A smart investment in security, compliance and system availability

Longwatch delivers real-time and archived video surveillance at remote facilities. With Longwatch, costly and disruptive trips to respond to traditional intrusion alarms can be avoided. Each intrusion alert can be analyzed remotely to determine an appropriate response. Developed to answer the specific needs of water department operators, Longwatch provides:

- Easy integration with your existing intrusion detection systems, HMI/SCADA software, and PLC's
- Use of your existing low-speed SCADA network (either wireless or leased-line)
- Scalability to add new remotes and higher-speed networks, as the need arises,
- Web-based remote access capability using your secure intranet,
- Comprehensive functions to assist in intrusion detection, event response, investigation, and prosecution.



### Keeps you secure and in control

If you currently operate wireless or dedicated land-line communications for your SCADA network, you already own the backbone of the Longwatch system. Because Longwatch integrates with your existing SCADA network, you avoid the security risk, installation cost, operating cost, availability and maintenance issues typically associated with cellular and broadband systems.

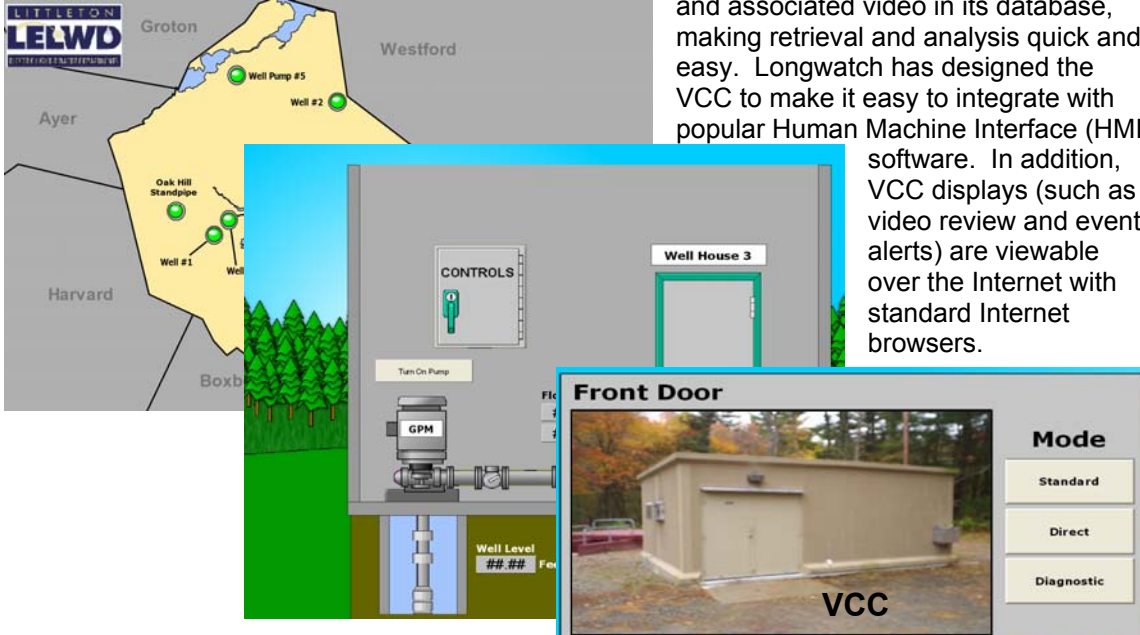


The Remote Video Engine (RVE) continuously collects video from up to four (4) cameras. Using its proprietary technology<sup>1</sup>, Longwatch compresses and sends real-time and selected video clips from each RVE over existing SCADA networks to a central station. In addition, Longwatch's Video Cortex™ constantly monitors video images to detect important activity. This helps reduce the need for constant human monitoring of the video from remote stations.

<sup>1</sup> US Patent Pending

Once the remote video is received at the central station (over your existing PLC SCADA network), it is processed and archived by the Video Control Center (VCC). The VCC stores intrusion events and associated video in its database, making retrieval and analysis quick and easy.

Longwatch has designed the VCC to make it easy to integrate with popular Human Machine Interface (HMI) software. In addition, VCC displays (such as video review and event alerts) are viewable over the Internet with standard Internet browsers.



**Developed by Industry Veterans**

The Longwatch Surveillance System has been developed in the USA by a team of SCADA industry veterans. It delivers the performance and functions that you expect, while being compatible with many of the most popular SCADA system configurations.

A team with over 140 years of combined experience in the SCADA and HMI systems industry is committed to providing a solution that is functional, cost-effective and reliable for your long-term support and surveillance needs.

**Remote Video Engine Specifications (per RVE)<sup>2</sup>**

Cameras Supported	4 – black and white or color
Contact inputs for intrusion alarm integration	4 – TTL
Protocols Supported	Allen Bradley DF-1, TCP/IP, RS232/485 Serial, More PLC/RTU Drivers under construction
External Interfaces	USB
Local Storage	40 GB (approximately 18 days)

**Video Control Center Specifications<sup>2</sup>**

# of RVEs supported	Limited by available network bandwidth (Typically 30)
HMIs supported	GE/Intellution iFIX, Wonderware InTouch, Rockwell RS-VIEW <sup>3</sup>
Software compatibility	Web, Windows XP/Embedded, MS DirectX, MS Media Player, ActiveX and OPC interfaces

**For More Information** go to [www.longwatch.com](http://www.longwatch.com) or contact Longwatch by email to [info@longwatch.com](mailto:info@longwatch.com) and by phone at (978) 649-0455.

<sup>2</sup> Preliminary. Specifications subject to change without notice.

<sup>3</sup> GE/Intellution iFIX, Wonderware InTouch, Rockwell RS-VIEW are registered trademarks of their respective owners.