

Longwatch Surveillance System Video Control Center



VCC Product Overview

The Longwatch Video Control Center provides a user-friendly method of displaying Longwatch video event clips received from a Longwatch video collection engine.

The VCC is a software application that runs on a Windows-based computer. It can reside on the same computer as the SCADA system or as a separate standalone system. It receives video images from local or remote video collectors and displays the images in the SCADA system or as a web page. The VCC provides a number of additional applications such as an alarm summary display showing alarms and the associated video clips in an easy-to-use interactive display. Video clips can be easily emailed to remote or on-call operations personnel. The VCC is capable of configuring the entire video system from the central station. For card access control, the VCC can centrally manage permissions and remotely monitor and unlock entry points.



Capabilities

- Built-in Web Server
- Runs on a Windows PC
- Video Alarm Summary Display
- E-mail and cell phone notification of alarms and video clips
- Central configuration of Remote Stations for video and card Access Control
- Video sent over existing network (Satellite, Radio, Telephone, Cellular, PLC network, etc.)
- Four Video Modes
 - High Quality DVR
 - Event Clips
 - Live Mode
 - Guard Tour Mode
- ActiveX , OPC, and Modbus TCP integration to Windows-based SCADA
- Advanced Security Capability
 - Windows Security Integration
 - RIJNDAEL-AES 128 bit encryption
- Integrates into 3rd party security packages
- Integrates into 3rd party security

Applications

- Water Distribution
- Wastewater Systems
- Oil and Gas Transmission and Distribution
- Distributed Power Generation
- Electric Power Transmission and Distribution
- Remote Site Equipment Management
- Railroad Facilities Monitoring

The Longwatch Surveillance System is comprised of two components: a software component called the Longwatch Video Control Center (VCC) and one of three types of video collection engines.

- **Remote Video Engine (RVE)**
Industrial DVR packaging supporting up to 6 cameras
- **Micro Video Engine (Micro)**
Industrial DVR with extreme supporting up to 2 cameras
- **Longwatch Video Engine (LVE)**
Software Only Engine (up to 12 cameras)

Longwatch Surveillance System

Video Control Center

SYSTEM SPECIFICATIONS

Video Alarm Summary Display: Display showing correlation of Alarms and the associated Video Event files. It also provides an event-based video archive of past alarms.

C	A	Date Time	Name	Event	Description
▶	■	2/17/2006 1:03:46 PM	Intake	DI-3	Access Control
▶	■	2/17/2006 1:03:38 PM	Intake	DI-2	Smoke Detector 2
▶	■	2/17/2006 1:03:25 PM	Intake	DI-1	Heat Detector 2
▶	■	2/17/2006 1:03:14 PM	Intake	DI-0	Access Control Door 7
▶	■	2/17/2006 1:01:35 PM	Intake	DI-0	Access Control Door 7
▶	■	2/16/2006 10:19:13 AM	Well1	DI-0	Local Camera
▶	■	5/18/2005 4:53:19 PM	Well1	DI-2	Well Field Event
▶	■	5/18/2005 4:52:55 PM	Well1	DI-2	Well Field Event
▶	■	5/18/2005 4:42:57 PM	Well1	Video-1	Filter Tank Intrusion
▶	■	5/18/2005 4:34:20 PM	Well1	Video-2	Main Valve Control
▶	■	5/18/2005 4:15:23 PM	Well1	Video-1	Filter Tank Intrusion
▶	■	5/18/2005 4:03:07 PM	Well1	DI-1	Inside Door Event

Guard Tour and Live Mode: Guard Tour enables the user to cycle through remote cameras on scheduled intervals. Live Mode provides for viewing of events occurring at remote sites. It gives the operator the flexibility of switching to any remote site for a real time view. In addition, Live Mode provides multiple user access to each camera feed enabling operators and first responders to simultaneously share important information.



SCADA Integration:

Integration into a SCADA system through an Active X interface.

Remote Configuration:

Modify the configuration of the Longwatch RVE systems from operations center and deploy those changes over your existing low bandwidth network.

Optional Card Access Control:

Centrally manage the card Access Control permissions and remotely monitor and unlock entry points.

Email Notification:

Configure the Longwatch VCC to send an email message with accompanying video event clip to an email account, cell phone or a first responder automatically when an alarm occurs.

SYSTEM PLATFORM REQUIREMENTS

Operating System: Microsoft Windows 2000 or Windows XP

CPU: Intel Pentium III, 500Mhz or higher

Hard Disk Space: 150 Mb for Installation, 10Gb for Video Storage (recommended)

System Memory (RAM): 128Mb SOFTWARE

COMPONENTS REQUIRED FOR OPERATION

DirectX: Version 9.0 or Later Microsoft Media

Player: Version 9 or 10 Microsoft Internet

Explorer: Version 6.0 or Later Adobe Acrobat

Reader: Version 5.0 or Later

REQUIREMENTS FOR LONGWATCH I/O DRIVER SUPPORT

For Direct Serial Connections: Standard RS232 Type Serial Interface.

For DF1 Connections: RSLinx OEM or RSLinx Professional Version 2.43 or Later

For Bristol BSAP Connections: OpenBSI Version 5.5 or later

About Longwatch

Longwatch was founded by a team of industry veterans with the goal of providing video over existing SCADA communication networks. The result was the development of the Longwatch Video Surveillance System. Advanced technology incorporated in the system allows SCADA system operators the ability to utilize video to monitor and verify alarms at remote sites utilizing the existing communications infrastructure.

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