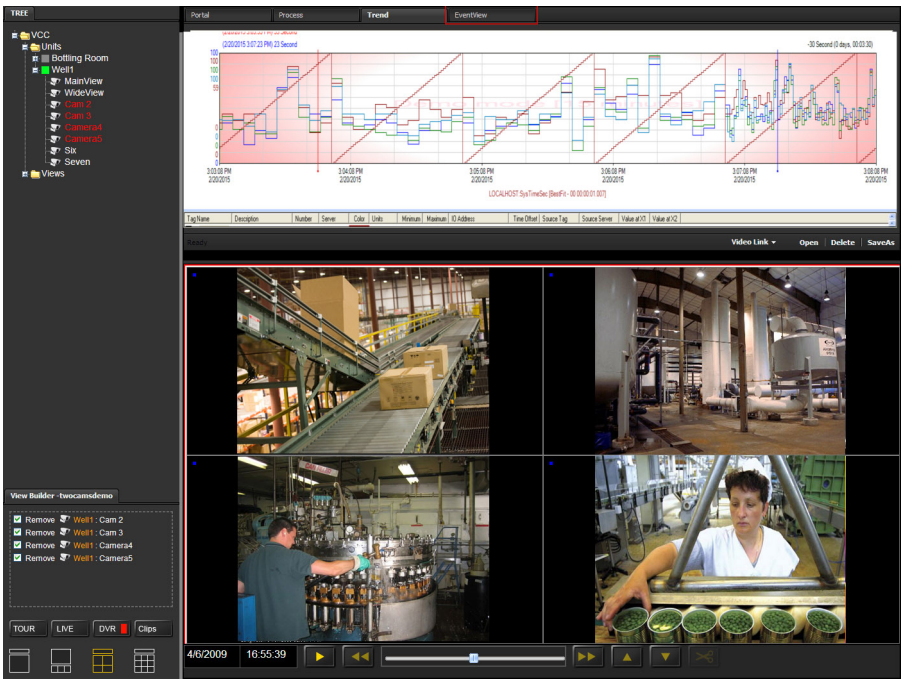
Longwatch™ Video Historian

- SQL and historical data integration
- Visual batch tracking
- Improve productivity
- Document your operations for regulatory compliance
- Link video to process data automatically



Connect video with manufacturing data

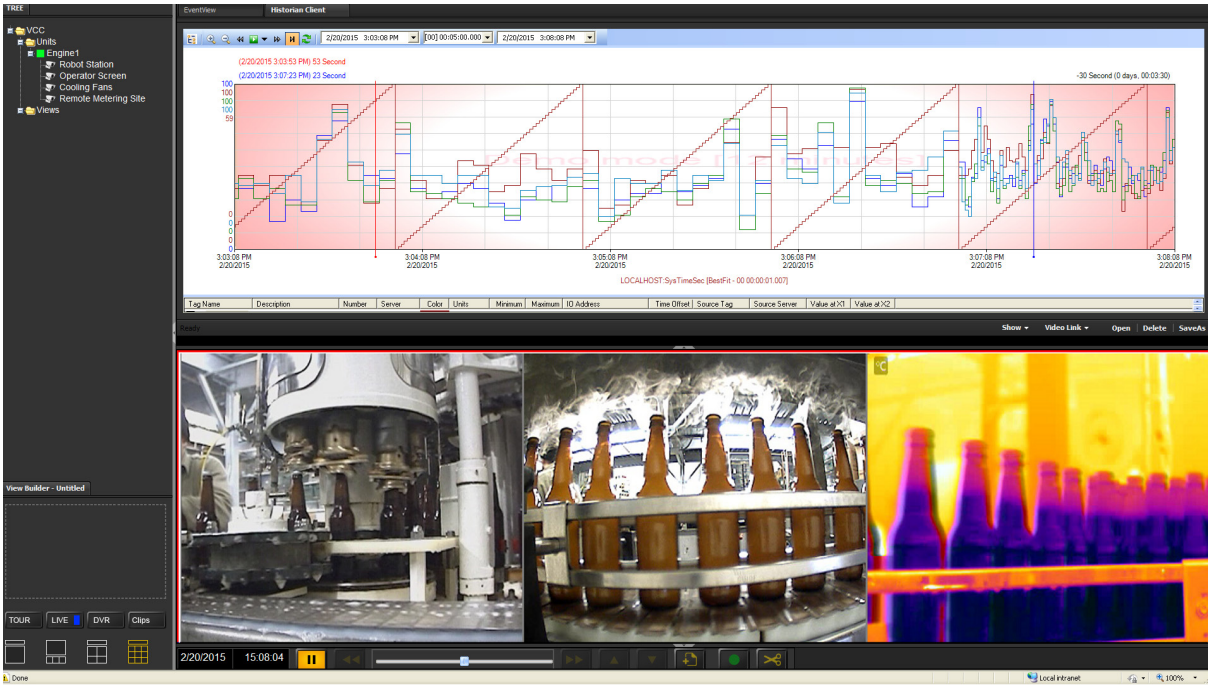
Longwatch Video Historian is a software platform that automatically links event and historical process data to recorded video. A picture is worth a thousand words; video can bring a new dimension of understanding to existing processes where process data alone fails to articulate the full story. Video Historian supplements control system data with quickly accessed, intuitive video.

It records video automatically and integrates the recorded video with various manufacturing databases, thus providing managers and operators with a wealth of timely, additional information for making better decisions that save time, money, and effort.

IV&C
INDUSTRIAL VIDEO & CONTROL

Configuration and Features

The Video Control Center software is the main portal into the Longwatch system. It contains a configuration interface for all Video Engines and cameras in the field. It provides a web interface for viewing video locally or remotely on laptops, tablets, and smart phones. Video viewed through the VCC can be streamed and stored at user-configurable resolutions and frame-rates to allow for extremely flexible bandwidth and storage infrastructure.

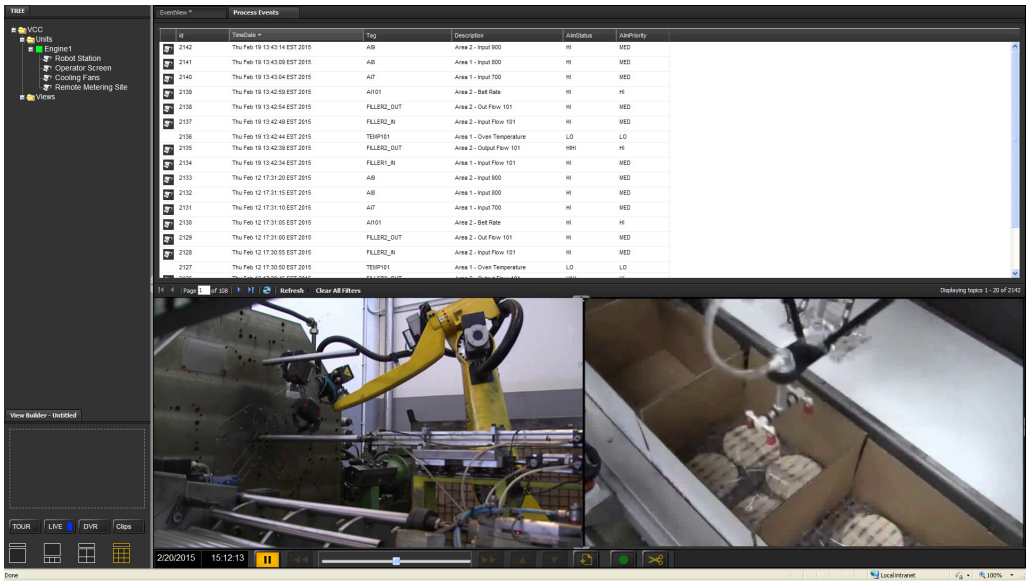


Track your batch or process from start to finish.
Replay your video to pin-point when an error occurred.

Capabilities

- Automatically associate stored video with automation system events and data. Retrieve video based on:
  - Alarm or Event time
  - Batch ID or Lot Number
  - Operator ID
  - Type of activity
  - Type of alarm
- Simultaneous viewing of video and historical trends, synchronized by time
- Integrates directly with the Wonderware Historian client
- Drag the time cursor in the trend chart and the video moves with it
- Built-in mapping of video to alarm messages, showing vide before, during and after an alarm occurred
- Pre-tagging of video clips with SQL data. Associate video with operational information (e.g. batch ID, operator name, line ID etc.)
- Post-view tagging of video clips:
  - Operator-defined tags to organize collections of videos
  - Operator-entered comments
- Easily integrates with other database applications:
  - SQL Stored Procedures Library
  - OPC Interface
  - FTP File Transfer
- Integrates easily with any SCADA, DCS, or MES system

Complete Data and Video Archiving System



Multiple camera sources and process data can be reviewed with live images simultaneously

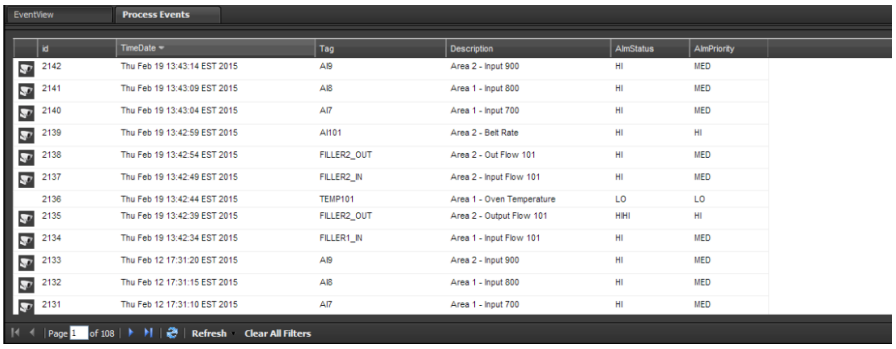
Video can be retrieved with the context of your plant operations, such as: batch ID, line number, operator ID, plant area, or times that alarms, events or messages occur in the SCADA/HMI system.

This supports cost-effective and efficient troubleshooting and preventive maintenance, simplifies operator training, supports quality control activities, and provides video documentation of various steps in the process for record-keeping and regulatory compliance purposes.

Event Window

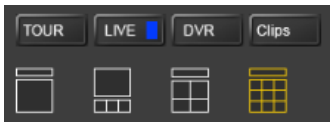
Automatically archive the display based on:

- Date and time
- Batch ID
- Alarm event
- User entered text description

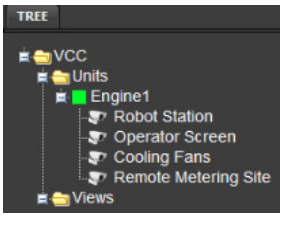


Simple click-to-play interface

Intuitive Control



Configurable views allow you to easily locate past events while continuing to monitor the rest of your system.



Simple windows-based system architecture allows you to organize your complete video system regardless of size or complexity.

IVC INDUSTRIAL VIDEO & CONTROL

Longwatch Features

Video Surveillance

Longwatch stores video in a variety of accessible formats allowing for complete and open integration across your pre-existing system. These include:

- HTTP - Use a web browser to view and playback video, control cameras, view alarm information, and for system configuration.
- OPC Data Access Server - Bidirectional interface with SCADA system. Alarms through Longwatch appear in existing alarm summary screens. Events triggered on the SCADA system can control camera views or control other connected devices, such as lights, doors, or PAGA systems.
- Video Controls - Drop Longwatch video windows directly onto your pre-existing operator screens. View live video and event-driven video clips with integrated Pan-Tilt-Zoom controls.
- Event Clips - Video clips are stored as open format .avi files. Play, edit, and share your video using commonly available media players on any system with no additional software to install.
- Email Notification - Events and alarms along with video can be sent directly to operator screen, email addresses, or smart phones for immediate assessment and quick response.

system requirements

Minimum System Requirements	Video Control Center (VCC)	Longwatch Video Engine (LVE and CRE) Max 4 per server	Client (LWViewer & View Station)
Minimum Hardware Requirements			
CPU	Core i7 or Server class Xeon - Minimum of 2 cores	Core i7 or Server class Xeon - Minimum of 2-4 cores for 1-2 engines, 4-8 cores for 3-4 engines	Core i7 or equivalent
Available Hard Disk Space	50 - 100 GB depending on # of event clips	For LVE - ~12 GB/day/ camera for medium resolution/frame rate For CRE - ~1-2 GB/day/ console	N/A
Available Memory	2 GB	2 GB per engine	2 GB or more
Networking	1 Gb	1 Gb	1 Gb
Software Components Required			
Operating System	Windows 10 Professional Windows Server 2012 R2	Windows 10 Professional Windows Server 2012 R2	Windows 10 Professional
For Windows 2008 and 2012 R2 Server	Desktop Experience Feature .Net 3.51 Feature	Desktop Experience Feature	N/A
Internet Explorer	Version 8 or above	Version 8 or above	Version 8 or above
Acrobat Viewer	Version 5.0 or later	N/A	Version 5.0 or later
Microsoft Media Player	Version 9 or later (supplied with Desktop Experience)	Version 9 or later (supplied with Desktop Experience)	Version 9 or later (supplied with Desktop Experience)

Note - for smaller systems the VCC and LVE can reside on the same hardware. Size accordingly.
Note - SQL Server 2008 R2 Express is installed as part of the VCC install

ordering information

To simplify your installation, IVC offers computers pre-configured with the appropriate View Station Software. Ask your IVC representative about this option.

Part Number	Description
VH-500	Video Historian Platform
VH-CR-500	Video Historian Platform with Console Recorder

ISO 9001 Certified

MADE IN THE USA

IVC INDUSTRIAL VIDEO & CONTROL