



Clean In Place (CIP) Monitoring

Ca-Zoom, XL-Lv and XL-Vu VideoProbe* Systems*

Applications Overview

Because cross contamination of process equipment used in applications such as pharmaceuticals, food and beverages cannot only compromise product quality, but also pose health and safety risks, thorough cleaning between production batches is crucial. The disassembly of process equipment for cleaning can be extremely costly and time consuming. As an alternative, many manufacturers employ Clean In Place (CIP) programs, often driven by regulatory requirements, that include monitoring and data acquisition. No less than absolute certainty is required by inspectors to confirm compliance to CIP regulations.

Effective and Efficient Monitoring in Less Time

GE's Inspection Technologies portfolio of video borescopes and PTZ cameras can provide the tools necessary to ensure your CIP monitoring is effective and efficient.

Our Ca-Zoom Digital PTZ industrial inspection cameras can help reduce tank inspection time from four to six hours down to as little as 30 minutes by completing the inspection with all personnel remaining outside the vessel. With plugged and durable interchangeable camera heads and high power lighting, inspectors can get the images needed to help ensure cleanliness. Post inspection reporting is made simple with 36x optical and 12x digital zoom, on-board file management, annotation, and comparison measurement capabilities.

The intuitive operator interface and menu structure of our XL Lv and XL Vu VideoProbes allows for easy operation that employs advanced signal processing and adjustable light output for superior image quality fundamental to CIP monitoring of piping, welds, heat exchangers and coil coolers.

Advanced Inspection Service

Based on your needs, you can purchase and operate GE's video borescopes or let our experienced technicians handle these details for you. GE offers a full range of advanced inspection services that can be tailored to fit your specific application requirements.

Key Features/Advantages

- Superior image quality. What you see is what you get!
- Inverse+. Provides a photographic negative image for an enhanced view of weld porosity.
- Menu directed inspection (MDI). Allows for easy documentation of all images and fully automated report generation. Images can be saved as compressed bitmap or jpeg files to preserve data integrity.
- Application-specific optical lenses, probe lengths and diameters let you choose the size that fits your needs. GE also offers custom probes as needed.
- Stereo and comparison measurement is available on select models.
- Full suite of service offerings. Can provide the level of support that matches your needs.

