

# Fastec Inline Monitoring System

## For High-Speed Production & Packaging Troubleshooting

The Fastec InLine Monitoring System (FIMS) is a unique high-speed event capture and analysis system for production and packaging environments.

Using advanced Fastec InLine high-speed digital cameras, the FIMS system captures line stoppages and automatically stores the high-speed images for analysis. The system is fully automatic, so the line operator can focus on clearing the stoppage and not worry about the camera.

FIMS continually monitors operator-selectable areas of your production line with the InLine high-speed digital cameras. When a failure is sensed, FIMS instantly stops recording and automatically downloads the high-speed images, via Gigabit Ethernet, to a pre-selected computer on the network, where they are saved in an .avi file format. When the download is complete, FIMS automatically resets itself into record-ready mode, awaiting the next failure.

Rather than working in a vacuum, FIMS communicates with PLCs (programmable logic controllers). As a result, the PLC interfaces allow specific camera views to pinpoint errors on the line. FIMS is like having another set of eyes on the floor; you just point the high-speed digital camera and walk away. When a line problem occurs, you can quickly scroll through the images and analyze the problem in slow motion.

**FIMS**  
is network-ready

InLine high-speed digital cameras can be networked to download to a single review station, central server or central archive library.

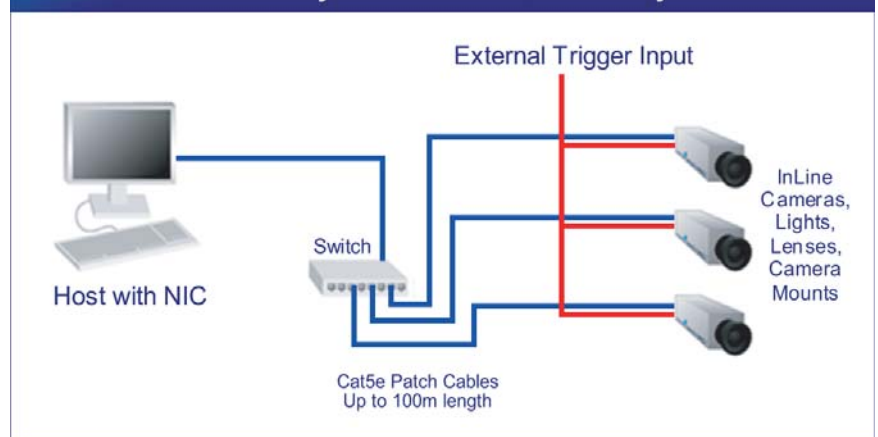
Imagine being able to scroll through an entire third shift or weekend of stoppages from a remote monitor in your office. Stoppage patterns can be quickly determined and adjustments made to the line.

With the optional MiDAS 4.0 Data Acquisition Software by Xcitex, FIMS can also capture and display external sensor data. Information such as line speed, pressure, voltage, temperature, PLC output, etc. is automatically captured and downloaded and fully synchronized to the video images. Up to 64 external inputs can be simultaneously monitored, captured and displayed with the digital video.

Key features of the basic system include:

- Event based triggering
- Automatic capture and storage of high-speed digital images
- Automatic reset
- File creation time and date stamp
- Numbered file name to track events
- Ability to store unlimited events for later viewing
- Ability to review a saved event while in record mode

### Schematic Layout of Multi-Camera System



See what you've been missing

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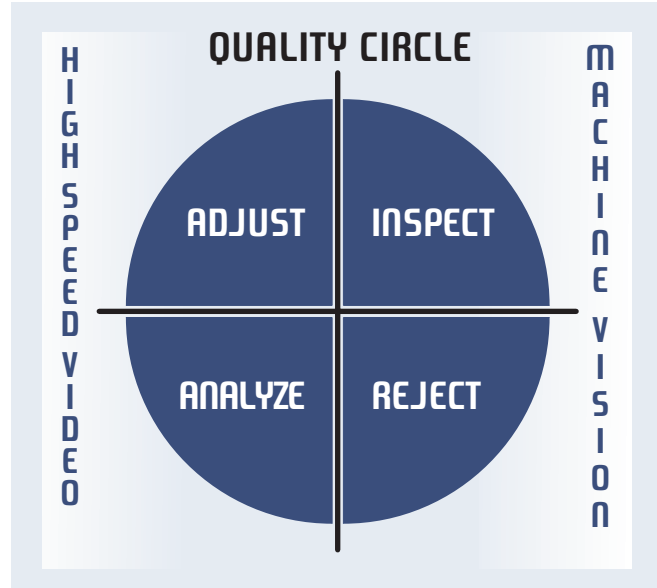
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## The Fastec InLine Monitoring System

can also operate in conjunction with machine vision inspection systems. Machine vision systems are very efficient at rejecting non-standard items on a high-speed production or packaging line. However, they only give you half the story. They can reject a bad item, but they can't tell you what caused that item to be bad in the first place.

FIMS completes the "Quality Circle". The right side of the diagram represents the machine vision inspection system and the left side represents the FIMS high-speed digital camera system. When the machine vision system senses and rejects a bad item, the FIMS system is triggered and automatically downloads the images from the InLine high-speed digital camera to the PC. Analysis of the high-speed images will show the line operator what caused the reject and appropriate adjustments can be made to the line.



## System Specifications

### Camera:

Fastec InLine High-Speed Digital Camera

### Software:

**Fastec InLine Monitoring Software:** Included with every InLine camera. Includes single camera control functions, record on command with variable trigger, autodownload to host computer, saving in .avi file format and playback using MiDAS Player.

### Optional Software:

**MiDAS 4.0 by Xcitex:** Adds multi-camera control and synchronization, multi-point analysis, note-taking capabilities, video-based triggering, databasing capability and interconnection assistants. Also available is the ability to synchronize high-speed video images with digital and analog line data, data level triggering and enhanced automatic download features. MiDAS 4.0 is a product of Xcitex, Inc. and sold separately.

*See what you've been missing*

17150 Via Del Campo, Suite 101, San Diego, CA 92127  
Tel 858.592.2342 Fax 858.592.2615 www.fastecimaging.com  
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