

# Lake PLAS

## Lake Production Line Analysis System



### Solves Problems Everywhere

#### For the Production Line

- Analyse and reduce jams
- Build historical database of machine performance
- Tie into machine vision systems with images and data showing *why* failures occur
- Lower scrap and rejected material costs

#### For the Machinery Manufacturer

- Add value with integrated image and data acquisition
- Reduce the number of costly service incidents

**The Lake Production Line Analysis System (LakePLAS)** is a unique high-speed event capture and analysis system for production and packaging environments. Using advanced high-speed digital cameras, the LakePLAS 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. 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 analysis
- Ability to review a saved event while in record mode

LakePLAS continually monitors operator-selectable areas of your production line with a choice of high-speed digital cameras. When a failure is sensed, LakePLAS 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, LakePLAS automatically resets itself into record-ready mode, awaiting the next event.

# Lake PLAS

Rather than operating in a vacuum, LakePLAS communicates with the production line PLCs (programmable logic controllers). As a result, the PLC interfaces allow specific camera views to pinpoint errors on the line. LakePLAS 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 analyse the problem in slow motion.

LakePLAS is network-ready. Multiple 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, LakePLAS 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 synchronised to the video images. Up to 64 external inputs can be simultaneously monitored, captured and displayed with the digital video.

The Lake Production Line Analysis System can also operate in conjunction with machine vision inspection systems. Machine vision systems are very efficient at inspecting and 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.

## System Specifications

### CAMERAS:

Available cameras include Fastec InLine, AOS X-PRI. Monochrome or colour

### RECORDING RATES:

Up to 1000 full frames per second.

### NETWORK:

Cameras and computer networked with Gigabit Ethernet (1000Base-T).

### SOFTWARE:

MiDAS OS.

### OPTIONAL SOFTWARE:

MiDAS DA. Acquire synchronised data such as pressure, temperature, acceleration and analyse with the image data.

For More Information  
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