

MONITOR

Imaging system for remote real-time supervision

FEATURES

- High quality mega pixel images
- Live streaming feeds direct to operators
- Multiple virtual Pan, Tilt & Zoom (vPTZ) views of the workspace and devices
- Recordings provide retrospective analysis of processes and problems
- Simple integration with no operator interaction required
- Optional image analytics can provide alerts
- Augmented Reality overlays can track correct process progress

BENEFITS

- Captures entire operation as it proceeds
- Quickly identifies and flags problems
- Speeds up corrective actions
- Provides clarity to post process review
- Cost effective system that saves time and money by enabling real time intervention

The Observant Monitor System

The Monitor system has been specifically developed for the supervision of working and automation environments by providing high quality imaging from within the workspace.

Multiple independently controllable views allow for excellent contextual understanding by providing both overview and zoomed-in detail.

All these views are digitally extracted in real time from a single image sourced from a very high quality, high resolution machine vision camera.

The Challenge

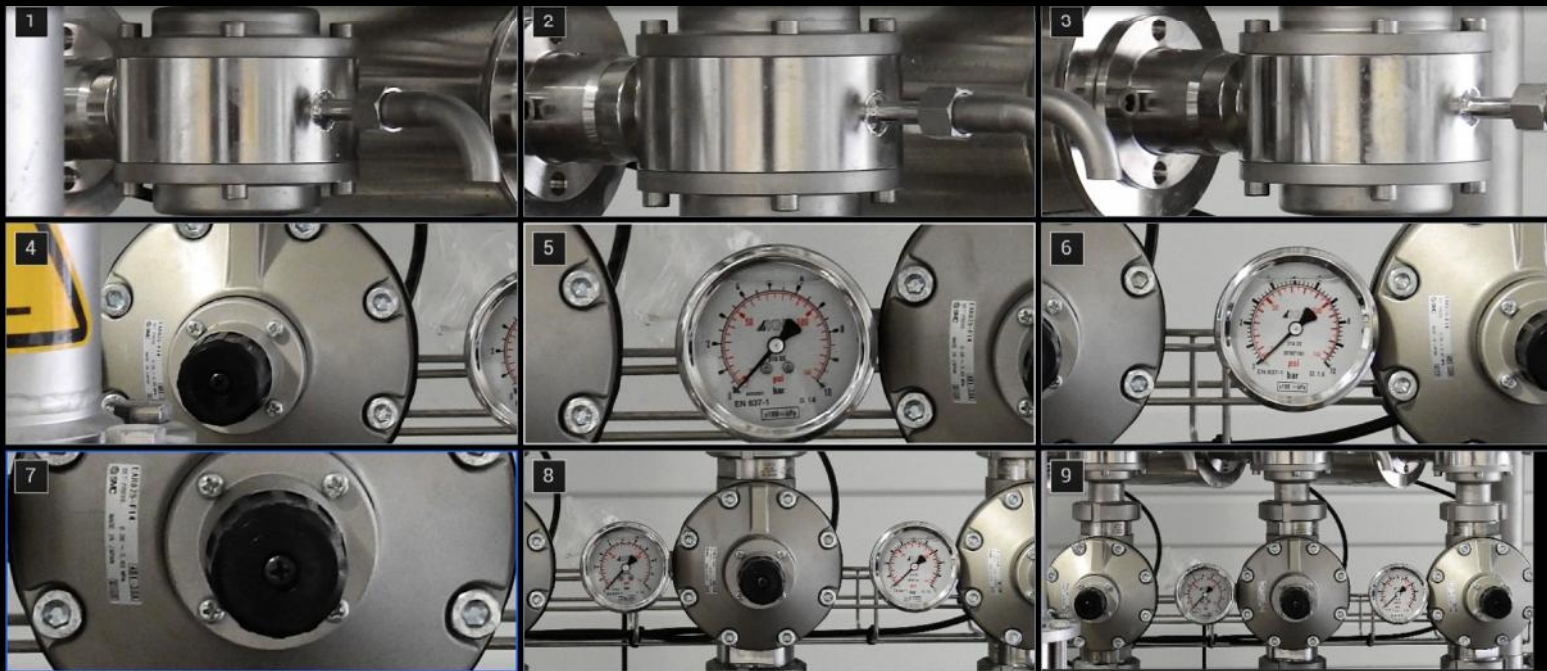
Visibility of the work processes is often restricted by the viewing angle, poor visibility and lighting, reflection and glare. It can be challenging for operators to establish and retain an overview of processes even when near the workspace. Remotely it's even harder.

The Solution

MONITOR ensures that operators can now view real time imaging transmitted live from within a workspace to a local screen, or their desktop, laptop or mobile device, facilitating supervisory overview of live processes, and post-process review.

MONITOR's robust imaging platform, APERTURE, allows complete flexibility of viewing, with the ability to control every aspect of the MONITOR camera image acquisition process. Real-time understanding is enhanced by using image processing which is independent of camera imaging acquisition and archival.

Customised analytics can be added to enable alerts both for expected outcomes, and errors. There's also the ability to add augmented reality (AR) overlays, for example to compare visible progress against planned results.



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Recording

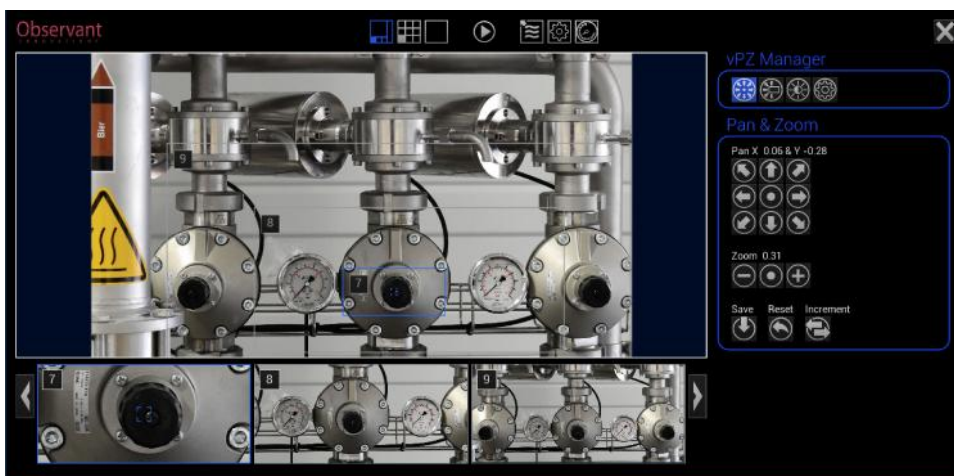
The system continually records physical processes, capturing and archiving images which allow both live and retrospective vPTZ views. Once started, the system requires no interaction as all operating processes are fully automated. Time tagged recorded data is securely stored on the system's own data storage PC.

Reviewing

With versatile screen layouts, powerful timeline searching and playback controls, the REVIEW software (see images to the left) simplifies post process analysis, providing that all-important information and evidence as to what happened and why.

Key Information

- ⌋ 1/2" 18MP CMOS colour sensor
- ⌋ High speed USB 3.0
- ⌋ Mega-pixel up to 8 FPS at 4912 x 3684 resolution
- ⌋ 4K cinema up to 15 FPS at 4906 x 2304 resolution
- ⌋ Full HD at 1920 x 1080 up to 32 FPS
- ⌋ Single or continuous image acquisition and local or network archiving
- ⌋ Fully configured and pre-loaded high-performance Windows 10 PC
- ⌋ Integrated lighting
- ⌋ Rugged IP rated camera and lighting housing
- ⌋ Simple integration
- ⌋ Easy to operate



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