TEMPERATURE
measurement solutions for **SAFETY, HOT SPOT DETECTION,** and **FIRE PREVENTION** applications.

See the Fluke Process Instruments solution for CRITICAL ASSET MONITORING

HOT SPOT and FIRE PREVENTION

Improve safety and reduce product liability with continuous temperature monitoring large outdoor areas for overheat or out of scope conditions

No one wants a fire to start at their facility. It can put your entire team at risk and cost you thousands of dollars in raw materials, final product, or even critical manufacturing equipment. Fire prevention is possible and hot spot detection is often one of the first steps manufacturers can take to ensure every part of their process is protected.

When it comes to hot spot detection, you must account for a variety of factors depending on your application to find your ideal solution. In many applications, such as combustible pile storage, temperature probes and handheld thermal imaging cameras are not practical solutions, as they only account for temperatures in one small spot in a moment in time. Fixed thermal imaging cameras, telephoto lenses, and pan and tilt mechanisms can help to ensure proper coverage across your entire process for non-stop hot spot detection.

Key FIRE PREVENTION applications

Whether you're looking for hot spots across storage piles or monitoring conveyor belts for potential flare-ups, these are the primary applications and scenarios where the Critical Asset Monitoring system can be used.

- Waste Bunker Monitoring and Incineration
- Warehouse Goods/Food Storage
- Fiber-Molded Packaging
- Coal, Tobacco, and Biomass Piles

- Fiberglass Manufacturing and Storage
- Gunpowder Manufacturing
- Particle Board/Lumber Manufacturing
- Falling or Dropped Embers
- Paper/Rubber Recycling

Monitoring CRITICAL ASSETS for abnormal conditions

Monitor large outdoor areas for overheat or out of scope conditions

Temperature Alarming

Monitor temperatures over large areas and alarm when temperatures reach unacceptable levels.

Hot Spot Detection

Detect hot spots before a real problem occurs with a variety of I/O and industrial Ethernet options that communicate directly back to the control room.

Real-Time Data

Instant notification of temperature alarms. Automatic recording of imaged data to understand location of a hot spot or area.

TV40 CRITICAL ASSET MONITORING system

The entire ThermoView Critical Asset Monitoring System is designed for remote, continuous monitoring of indoor or outdoor industrial environments and includes the TV40 fixed infrared camera, ThermoView Critical Asset Monitoring software, and weatherproof enclosures including the Fixed Mount/Outdoor Enclosure accessory and Pan and Tilt accessory.

The ThermoView TV40 cameras offer 320x240 or 640x480 pixel resolution and wide–angle lenses, which can be strategically mounted and integrated into existing control systems through standard I/O modules or direct communication protocols. Our thermal imaging cameras also allow simultaneous infrared and visible light image capture and automatic image recording.

Furthermore, the ThermoView Critical Asset Monitoring software provides a fully integrated thermal analysis of large areas where fixed multiple cameras or a single pan and tilt camera is needed. The software not only controls the pan and tilt system, but also provides advanced alarming on changing temperatures over a historical time period, or differential temperature between two discrete areas. Alarm output can be mapped to discrete I/O modules or output over a Modbus or Ethernet/IP network.
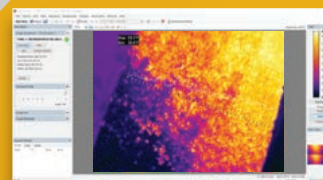
PAN and TILT accessory

With an IP66 rating for indoor and outdoor environments, the Pan and Tilt was designed to protect your thermal imager from dust and water, even in the harshest manufacturing environments. The Pan and Tilt housing accessory is used with the ThermoView Critical Asset Monitoring Software, which is the ideal solution for sophisticated analysis based on absolute, differential, or rate of change asset temperature conditions.

Both enclosures allow for VISIBLE and IR IMAGE DATA when a standard lens option is used

OUTDOOR enclosure accessory

With an IP66 rating, our outdoor enclosure for the ThermoView TV40 ensures that your temperature monitoring system won't stop due to adverse environmental conditions. The Outdoor Enclosure comes equipped with a sunshield, and a temperature-controlled heater for cooler environments.

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