

FireTIR

Thermography System for Early Fire Detection

Solution based in radiometric infrared cameras for early fire detection

Real time temperature monitoring of industrial plants

Automatic integration with extinction systems and OPC connection



FireTIR

Thermography System for Early Fire Detection

FireTIR System is a modular and flexible solution based in radiometric infrared cameras for early fire detection and temperature monitoring of industrial plants (indoor and on open-air grounds).

FireTIR is able to capture the temperature distribution of a surface in milliseconds, with automatic detection of hot spots.

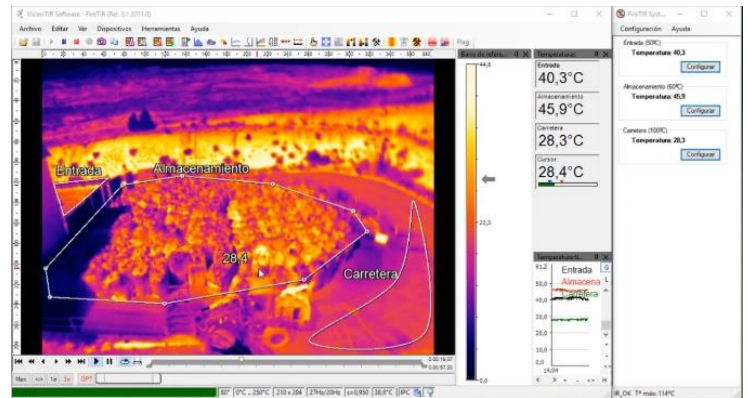
FireTIR Software offers full remote control of all infrared cameras, different inspection zones configuration, recording functions and analysis of measured data.



Coal storage warehouse



FireTIR infrared camera



FireTIR software

Features

Wide-area monitoring

Definition of alarm zones and related temperatures

In each IR camera to avoid combustion of materials as a preventative measure.

Precise and comprehensive temperature detection

Integrated fire alarm outputs

For all current alarm and extinguishing systems.

High resolution temperature measurement in long distances

Discrimination system

Consisting of alarms and pre-alarms to avoid false alarms due to work vehicles, forklift, et

Customized system design and architecture

Tailor-made solutions even for complex monitoring tasks.

Spatial visualization

Display of all zones in a map view.

ATEX-certified housings

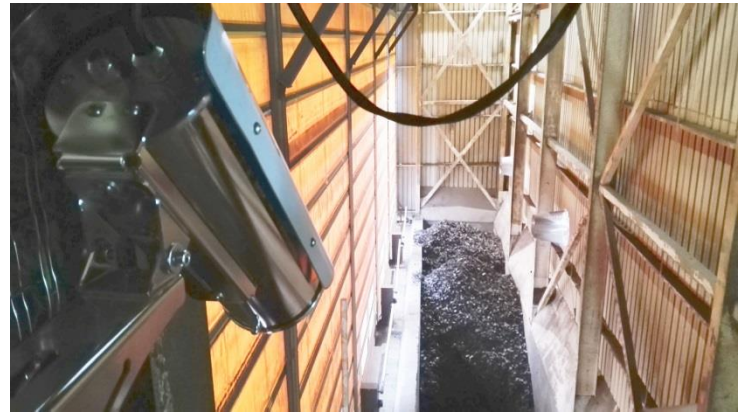
For installation and operation in Ex-zones 1, 2, 21 and 22.

Benefits

- 24/7 monitoring of areas with a high risk of fire and explosions.
- Real time detection of fire hazards before a fire breaks out.
- Customized installation for temperature monitoring of large areas.
- Maintenance-free operation.
- Recommended by leading insurers.
- Modular expansion. The system can be expanded at any time with further cameras and workstations.



FireTIR system with double infrared camera



FireTIR monitoring in cement factory

FireTIR Software

Full remote control of all infrared cameras

Fast and precise temperature measurement

It can capture the temperature distribution of a surface in milliseconds.

Automatic hot spot detection

It allows thermal evaluation of objects with automatic detection of hot or cold spots.

Easy integration process

Advanced concepts of interface allow the integration in networks and automated systems, using automated alarm outputs.

Recording functions and analysis of measured data

Different configurations

It facilitates the parameters processing of each zone: emissivity, measurement temperatures, prealarms and alarms events, dimensions, etc.

Email notification of alarms or alarms notification by digital outputs

Control and analysis of several infrared cameras with one system

Communications via Profinet / Profibus / OPC Client

Data Integration and communication to the different levels of the factory (SCADA, data bases, communications with PLC and sensors).

Industries

- Biomass Warehouses and Silos
- Coal Storages
- Chemistry and Oil Production
- Waste/Recycling Facilities
- Wood Processing
- Fertilizers Storage
- Road Tunnels
- Conveyor Belts
- Hazardous Environments (flammable substances, ATEX classified zones)



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