Infrared Monitoring System

Monitoring of waste bunkers, warehouses and open areas
Automated early detection of bunker fires
Prevention of toxic air pollution emissions
Established fire-protection system

www.InfraTec.eu
Complete Storage Space Monitoring

Features
- Works even with one single thermographic camera by application of pan-tilt head
- Automated scanning of several inspection sections
- Maximum cycle time two minutes
- Sector position accuracy < 0.2°
- Switch to manual control for observing suspect spots and evacuating critical objects
- Pilot control of extinguishing zones according to a pre-defined zone table
- Support of multiple recipes (day and night time operation)
- Detect automatically sources of interference

High-resolution Thermographic Camera
- Quality made in Germany
- Uncooled FPA-Microbolometer detectors of various formats
- High geometrical resolution and thermal sensitivity
- High-contrast, low-noise thermal image
- Localisation of hot spots even under dusty or smoky conditions
- Spectral range (7.5 … 14) µm; frame rate 50 / 60 Hz
- Real-time data acquisition (Gigabit Ethernet)
- Internal automatic calibration
- Rugged housing for industrial applications IP65 (stainless steel*)
- Extremely high level of system availability
- Additional digital colour video camera*
Powerful Software

Camera 1: Thermal image incl. detecting and marking sources of interference

Camera 2: Merging of thermal and live image of the detected area incl. hot spot

Thermal images of all sectors

Choosen sector: Merging of thermal and live image of the detected area incl. hot spot

- Continuous display of current thermal images of all sections (mosaic-overview)
- Simultaneous display of live image (thermal image and colour video)
- Camera and system status indication

- Merging of live images of thermographic and video camera
- Recording of maximum, minimum and average temperature of each section
- Single or multiple-camera system available

- Graphics of temperature-time profile of all sections
- Logging of operations
- Filing of image data
- Detecting and marking of sources of interference, e.g. wheel loaders

Alarm Release

- Automatic alarm release when temperature values exceed critical thresholds
- Multi-level alarm functions with adjustable warning and alarm threshold values
- Analysis of long-term temperature trend with adjustable time basis
- Documentation of alarm situations for analysing fire formation
- Wide range of system versions due to modular design concept

* Depending on model
Customised System Design

- Suited for sustained continuous operation 24 hours/day
- Transfer of thermal images from the camera to a central control room
- Flexible wiring technology (copper or fibre optics)
- Versatile solution for display and operation in the crane control station, the control room and/or the gate
- Uninterruptable power supply*
- System maintenance at PC in control cabinet (via remote control*)
- Large surface black body reference for atmosphere transmission compensation*

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Headquarters
InfraTec GmbH
Infrarotsensorik und Messtechnik
Gostritzer Str. 61 – 63
01217 Dresden / GERMANY
Phone +49 351 82876-610
Fax +49 351 82876-543
E-mail thermo@InfraTec.de
Internet www.InfraTec.eu

USA office
InfraTec infrared LLC
5048 Tennyson Pkwy.
Plano TX 75024 / USA
Phone +1 844-226-3722 (toll free)
E-mail thermo@InfraTec-infrared.com
Internet www.InfraTec-infrared.com

* optionally available