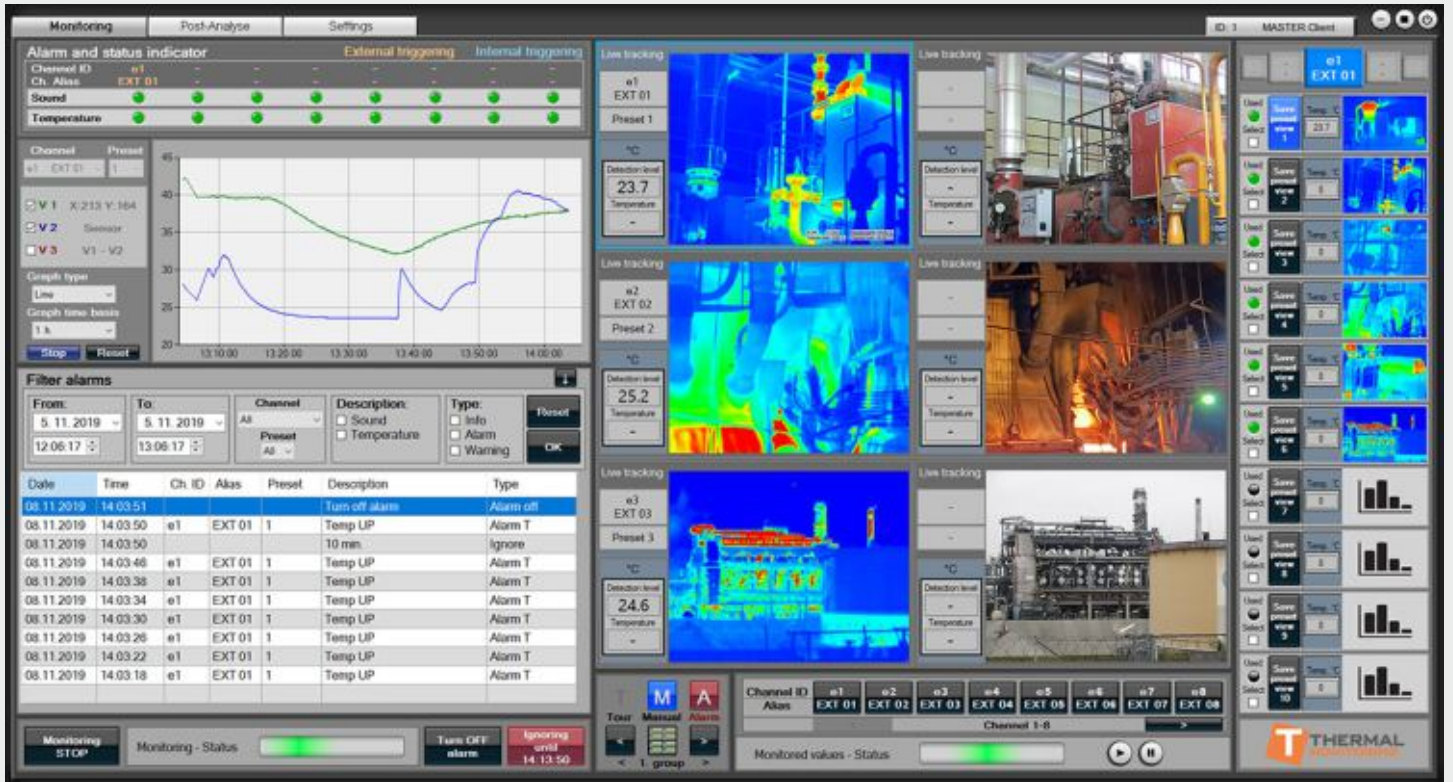




THE MULTI-CAMERA SYSTEM (SOFTWARE)
DESIGNED TO IDENTIFY THE POTENTIAL
RISK OF OVERHEATING AND FIRE

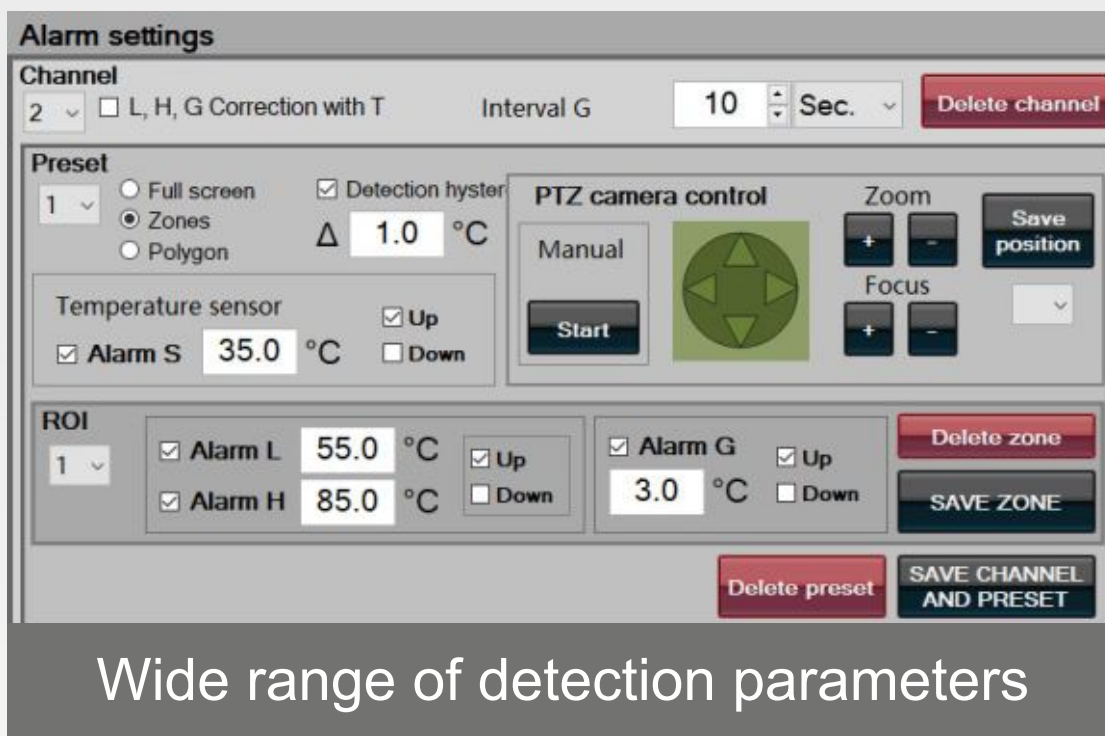
system
DESCRIPTION

Key features



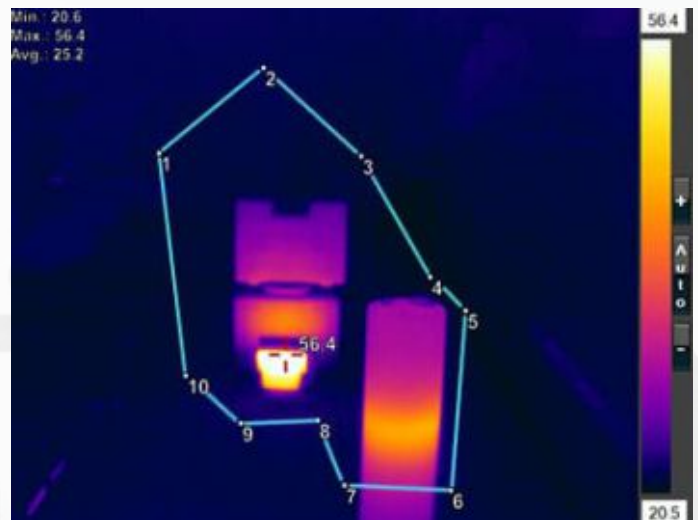
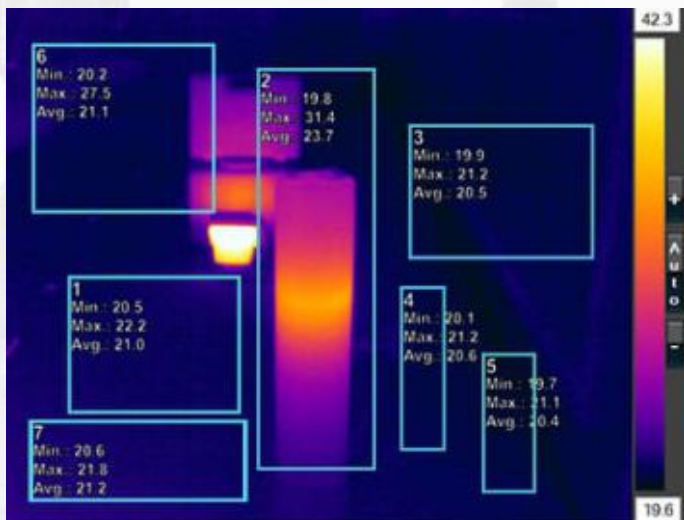
- connectivity up to 24 cameras (thermal or dual/IR + visible /)
- IP system with central administration
- server/client solution
- professional alarm management with clear status indication
- easy system setup and control
- compatible with FLIR streaming thermographic cameras
- a number of additional functions (graphical display of temperature changes, quick search of events in the alarm list, retrospective analysis, many others)

**PREVENTION IS CHEAPER
THAN THE CAUSED DAMAGES**



Wide range of detection parameters

- up to 25 individually adjustable ROIs for each camera channel (ROI = Region Of Interest)
- ROI can be defined as a rectangle or a polygon



- detection parameters (**L**, **H**, **G**) are adjustable for each ROI separately
- **L** - temperature threshold 1 (PRE-ALARM)
- **H** - temperature threshold 2 (ALARM)
- **G*** - gradient (T/time)

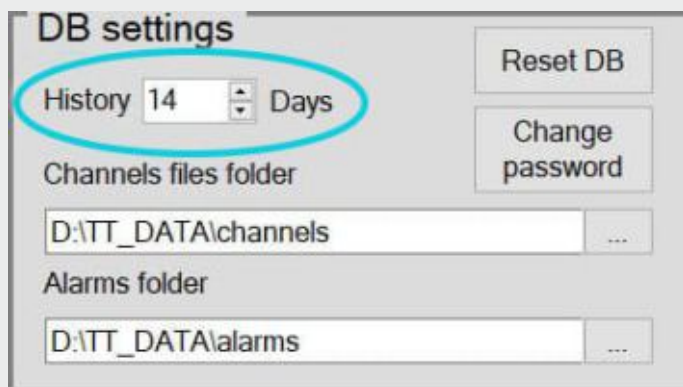
* (**G**) Thanks to the unique functionality “**gradient**” the system has the ability to alert the operator on danger of fire / overheating in the initial phase of temperature change. This means much earlier, when only the threshold detection functionality is used.

Note:

All detection parameters can be modified directly through the software application environment.

Professional alarm management with clear status indication

When a temperature alarm occurs, the system displays all important information, including highlighted areas where the temperature limits have been exceeded. Such acquired complex information allows the operator to evaluate the situation quickly and correctly and subsequently to take the effective preventive measures.



Long-term recording of two independent streams

- **radiometric** - from thermal camera (thermal video + temperature data)
- **video** - from visual camera

The recording time is adjustable from several days to weeks (depending on the capacity of the HDD/SSD).

Retrospective analysis of temperature events (analysis from the recordings)

The system consists of sophisticated analytical functionalities that allows the operator to retrospectively analyze what actually happened in front of thermal imaging cameras.

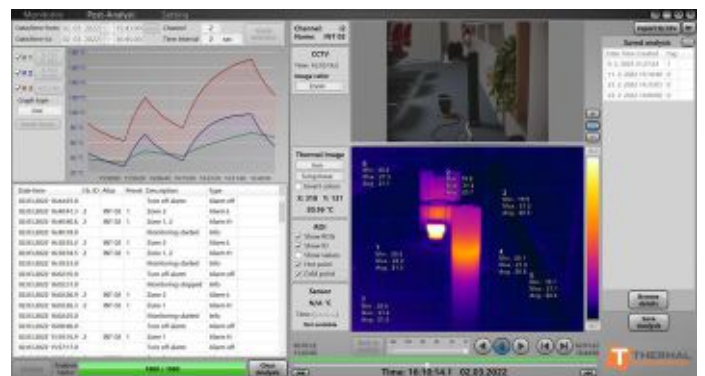
A. Quick search with one click - allows to display the critical situation a few seconds before the alarm event occurred (camera picture & all temperature data).

B. Retrospective analysis – detailed analysis of the recorded history that preceded the alarm event (time sequence selection by date and time).

The system is capable to visualize the course of temperature events in the form of thermal video. During the playback of thermal video all important temperature data are dynamically displayed directly on the screen. Moreover, a huge advantage is the color highlighting of the hottest areas.

The operator is equipped with an option to play the thermal video in parallel with the video from the related visual camera and at the same time monitor the time changes of the temperature of the inspected place in the accompanying trend graph.

Retrospective analysis will allow the operator to obtain a comprehensive overview of the course of the temperature event and the potential causes of its occurrence.



Available in two versions



A. Preconfigured systems (HW & SW)

TTM-SA

Smart fire/overheating detection system.
Compact design, favourable price.

- plug and play solution
- up to 6 thermal cameras
- 24 independent adjustable ROI
- detection parameters for each ROI
 - **L** - temp. threshold 1 (**PRE-ALARM**)
 - **H** - temp. threshold 2 (**ALARM**)
 - **G** - gradient (**T/time**)
- well-arranged alarm management
- many practical functionalities



B. Software

TTM-PRO

Professional fire/overheating detection system.

- server/client solution
- up to 24 thermal cameras
- ready for bi-spectrum cameras
- up to 9 network clients/workstations
- 25 adjustable ROI for each camera
- detection parameters for each ROI
 - **L** - temp. threshold 1 (**PRE-ALARM**)
 - **H** - temp. threshold 2 (**ALARM**)
 - **G** - gradient (**T/time**)
- recording of video and radiometric stream
- post-analysis of recordings
 - temperature trend graphs
 - video playback (IR + visible)
- professional alarm management
- outputs to control third party systems
- many practical functionalities



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