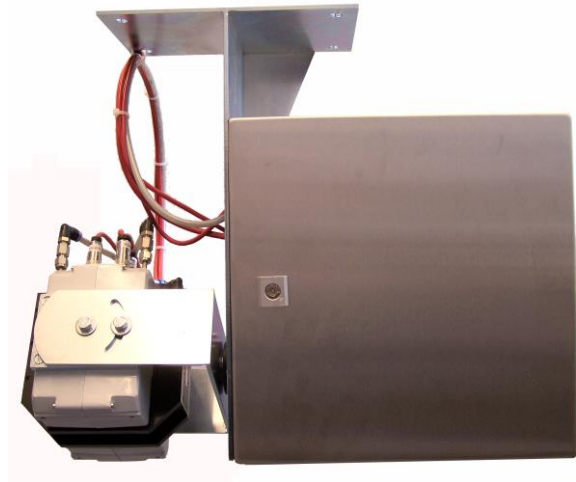




BENEFITS

- Scanning of whole areas with one pivoting movement
- High scanning speed (about. 10 sec. per IR-picture)
- 180° x 90° (pivot angle x scan angle)
- High resolution 1024 x 1024 pixel per picture (adjustable)
- Wide choice of spectral and temperature ranges
- High-quality and reliable servo drive
- Alert-output possible without a System-PC
- Robust IP65 housing
- Air purge keeps window free of dirt and condensation
- User-defined monitoring sectors in the IR-picture with individual alarm and warning thresholds
- flexible integration into existing PCS via OPC, Profibus DP or CP340/CP341
- modularly expandable up to 8 scanner units per System-PC



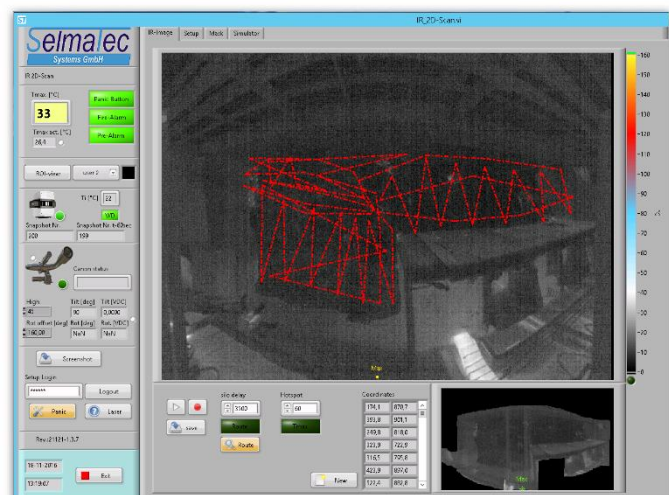
DESCRIPTION / EXAMPLE OF AN APPLICATION

IR 2D-Scan is a modular system for a reliable, continuous temperature monitoring and controlling of warehouses, waste-bunkers and other static production and manufacturing facilities. User-defined sectors in the IR-picture allow an individual temperature rating and alarming for specific areas. One system-PC is able to handle up to 8 scanner units. The appropriation of many industrial standard interfaces allows an easy integration into existing process control systems and fire-alarm-systems, so trend functions and alarm handling can be realized in existing systems the customer is familiar with.

By using a **RAYTEK MP150** IR-line scanner with an FOV of 90° (scan angle) and an adjustable pivot angle large-scale areas can be scanned, rated and alarmed in one turn in a very short time (about. 10 sec. with a pivot angle of 180°). Even when several scanner units are used the cyclic time becomes only marginally longer, because of the multi-tasking integration of the scanner units.

MEASUREMENT SPECIFICATIONS

Field of view	90°
Pivot angle	Max. 180° (adjustable)
Updating time between IR-Pictures	About 10 seconds
Signal Processing	max, min, AVG, max minus AVG, pixel count above alarm threshold etc.
Possible interface to PCS	OPC, TCP, Profibus/ Profinet, Analog-Digital I/O ...
Voltage supply	230VAC
Scan Motor	MTBF: 40,000 hours
Scope of delivery	IR-scanner incl. Pivoting unit (scanner unit), interface, system-PC incl. Software, monitor, input devices, documentation





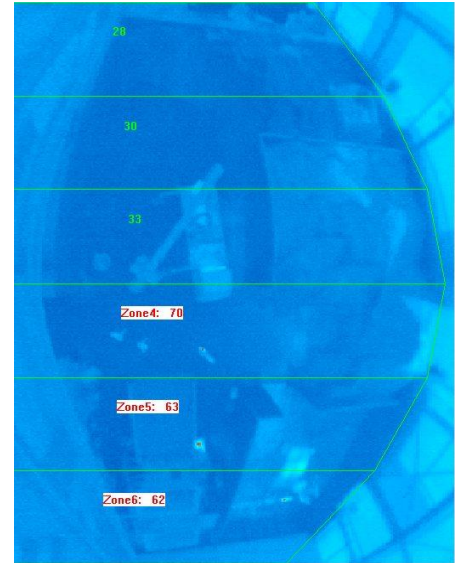
INTERFACES / SECTORS / SOFTWARE

Within the detection zone of the IR picture, many autonomous sectors can be defined.

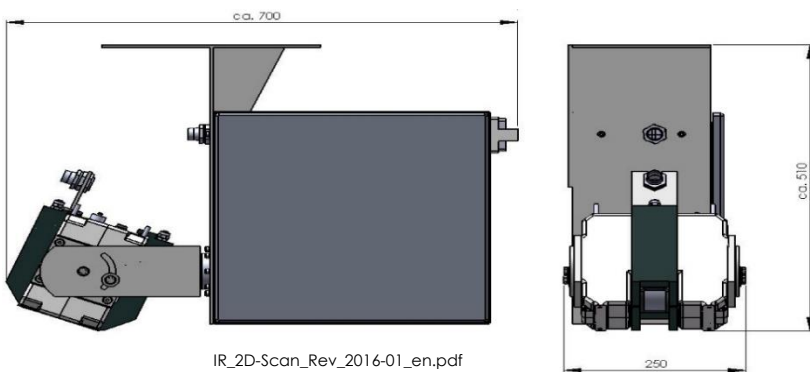
The result of a sector itself or a logical interconnection of two and more sectors can be transmitted to a PCS individually by several interface possibilities and/or can be analysed by the system itself.

System logs give information about occurred events, which are saved with a time stamp.

A client installation allows other PCs of the Local Area Network to access to the saved data and display the IR-pictures or analyse the data.



SCANNER UNIT DIMENSIONS [MM]



IR_2D-Scan_Rev_2016-01_en.pdf

Layout Example

