Orglmeister
Infrarot-Systeme

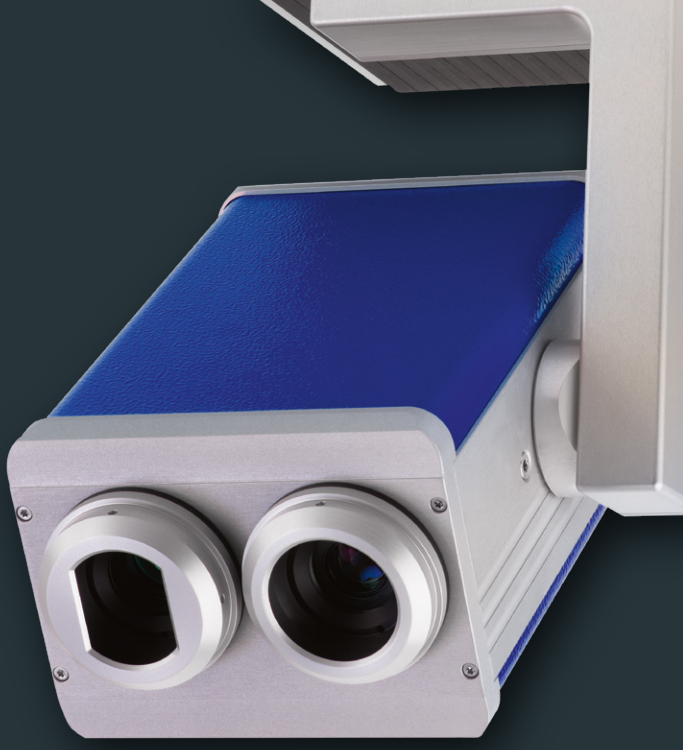
PYROspy®

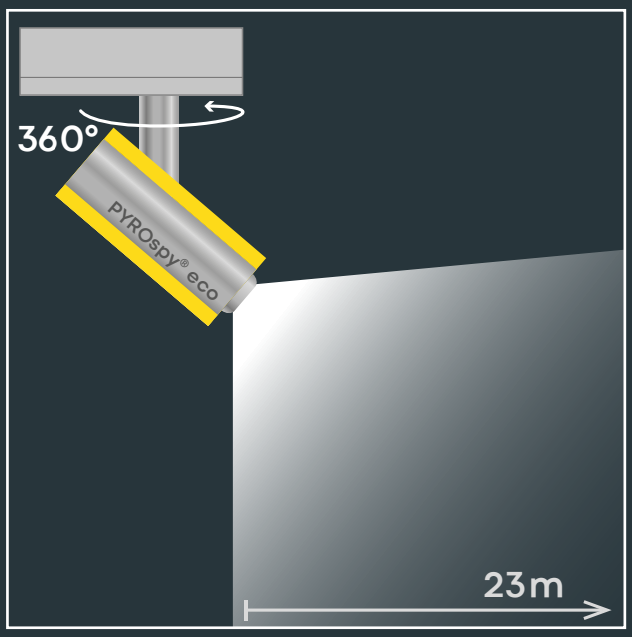
Infrared early fire detection
with 360° viewing
and targeted extinguishing

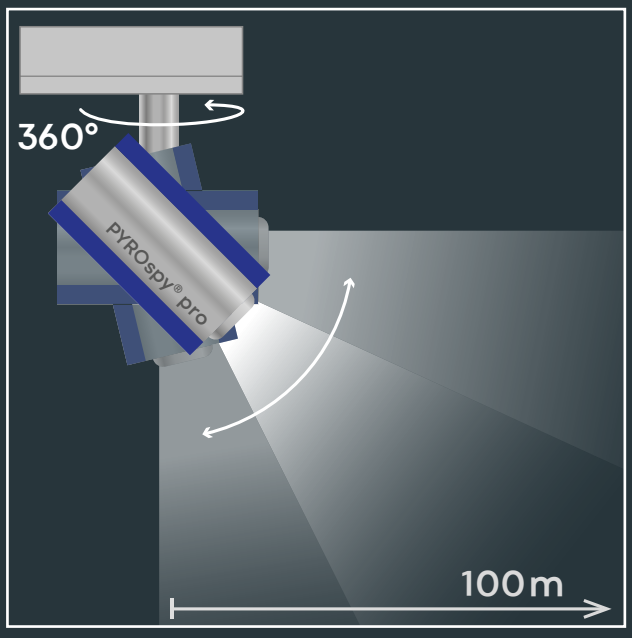
Early fire detection via intelligent temperature monitoring

The earlier a fire hazard is detected, the sooner a fire can be stopped or prevented. Conventional fire detectors only detect fires at more advanced stages (e.g. with smoke / flames). PYROspy® series infrared fire detectors detect fires earlier. They “see” excessively hot material surface temperatures long before they cause smoke or flames. If a potential fire source is detected at an early stage, appropriate measures can be immediately taken, especially the targeted automatic cooling of a hotspot.

PYROspy® is an all-in-one infrared early fire detection system with innovative 360° viewing that automatically extinguishes fires before they can escalate into dangerous blazes.







PYROspy® eco

360° viewing up to 23 m

PYROspy® eco has a 23 m radius range (according to VdS standard) from its mounting point and is ideal for monitoring smaller storage facilities. It has a tried-and-tested, virtually maintenance-free rotation system that allows the monitored area to be captured in just a few seconds.

- Cost-effective entry into IR early fire detection.
- Equipped for operating extinguishing systems.
- 10-year warranty on mechanical parts + drive electronics.

PYROspy® pro

Extensive 360° viewing up to 100 m

PYROspy® pro has a 100 m radius range from its mounting point and is ideal for monitoring larger storage facilities. The tried and tested, virtually maintenance-free, self-monitoring pan/tilt system is built to last for years of continuous operation. An integrated zoom video camera together with a high-resolution IR autofocus camera enable very small and distant objects to be detected. PYROspy® pro is therefore ideal for detecting very small and distant fire sources, such as lithium-ion batteries, and extinguishing these with pinpoint accuracy. This is the optimal way to instantly prevent potential fire sources from escalating into full fires.

- VdS-certified for insurance company approval.
- Smart detection to avoid false alarms, e.g., from hot exhausts.
- Video camera for extra detection functions.
- Smart detection of sun reflection to enable outdoor use.
- Smart control of fire extinguishing monitors to prevent fires while using minimal extinguishing agents.
- 10-year warranty on mechanical parts + drive electronics.

Keeping an overview with the patented 360° “Thermo Radar”

The patented PYROspy® infrared detection method enables thermal monitoring of buildings, warehouses and outdoor areas.

Like a radar, PYROspy® continuously scans heat patterns in radii of up to 23 m (PYROspy® eco) or 100 m (PYROspy® pro). Distance information complies with the VdS standard.

If critical temperatures are detected, the system triggers an alarm, records all data related to the incident, initiates extinguishing procedures, notifies the fire services and continuously informs designated persons about the alarm status using live images.

Full thermal monitoring with just one device.

PYROspy® pro with additional live video imaging.

Seeing more with autofocus, live video and 14 x optical zoom

PYROspy® pro also has an infrared camera with autofocus making it ideal for monitoring objects with varying viewing distances (e.g. input recycling halls or bulk material warehouses with different fill levels).

Temperatures in the monitored area are shown as false-color in the thermal imaging system. This display can look unfamiliar to the human eye so PYROspy® pro also uses a 14 x zoom video camera including night vision function.

- Switching between infrared and video images is then possible, and intermediate levels are also easy to display.
- The video camera’s zoom function enables detailed viewing of objects at any time.

Targeted extinguishing – automatically operated by PYROspy®

A hotspot that is quickly cooled (“extinguished”) is the best protection against fires. Automatically extinguishing a possible source of fire in a targeted manner places high demands on technology. Orglmeister has many years of experience in the field of automatic extinguishing solutions. In the event of an alarm, its smart PYROspy® extinguishing software can control targeted extinguishing using any standard type of fire-monitor – fully automatically with dynamic adaptation to conditions.

Hotspots are then cooled with pinpoint accuracy and/or developing fires extinguished at an early stage to avoid collateral damage. Targeted extinguishing leaves unaffected areas untouched and ensures continued operations.

PYROspy® – properties and characteristics

	PYROspy® eco	PYROspy® pro
Application area	Indoors, smaller areas	Indoor & outdoor, larger areas, variable distances
Monitoring area	23 m radius (Ø 46 m), approx. 1.650 m²	100 m radius (Ø 200 m), approx. 31.400 m²
Infrared camera	464 x 348 measuring points at 95° x 70° → 1 x resolution Temp. detection: - 30° C to 630° C Manual focus	464 x 348 measuring points at 24° x 18° → 16 x resolution Temp. detection: - 30° C to 630° C Autofocus
Optical aperture angle (IR)	95°	24°
Video camera	x	✓ 14 x optical zoom
Rotatability / Panning	✓ x	✓ ✓
Representation	Infrared false color image in 360° viewing	Continuous infrared false color image / video image in 360° viewing and live infrared detection window
Software	abiroVision® with patented, continuous radial image display	abiroVision® with patented, continuous radial image representation and standard interference compensation
FACP compatible alarm outputs	✓	✓
Extinguishing control	✓ Control of max. one fire monitor	✓ Smart operation of multiple fire monitors
VdS equipment approval	In certification process	VdS equipment approval G219023
Permissible ambient temperature	-25° C to 70° C	-25° C to 70° C
Dimensions (height x width x length) / weight	29 x 24 x 24 cm / 5,8 kg	39 x 24 x 39 cm / 8,5 kg

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