

PYROsmart® eco

Affordable entry into infrared pan/tilt systems

Temperature monitoring of small and medium sized areas often requires a scanning solution for fire protection so that every angle can be detected with good spatial resolution. PYROsmart® eco is the ideal variant for such needs.

The system's technological basis is the same as the larger PYROsmart® pro version but with fewer features. The system meets the PYROsmart® series high quality standards for the required location and purpose of use.

The device uses a fixed-focus infrared camera for detection and forgoes the inclusion of a video camera and certain software features. This enables highly reliable, area-wide monitoring of approx. 1,000 m² for early fire detection.



Automatic targeted extinguishing – controlled by PYROsmart®

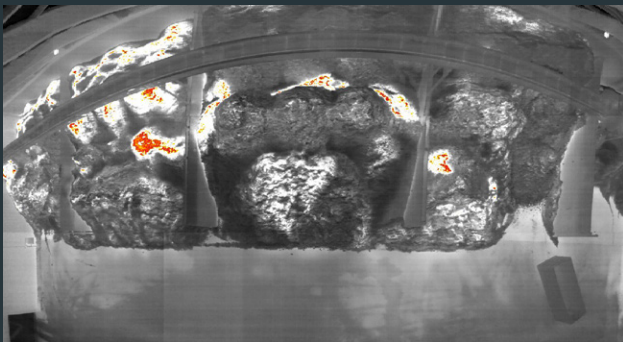
In the event of an alarm, the PYROsmart® extinguishing software controls targeted extinguishing using fire-monitor extinguishers from any major manufacturer – dynamically adaptable and fully automatic. Hotspots can then be cooled before fires start, and early-stage fires can be quickly extinguished. The system can also be used for detection only, i.e., without extinguishing control.



Keeping the overview with panoramic thermal imaging

Patented PYROsmart® panoramic thermal imaging enables entire monitored areas to be displayed in one view. Detected hotspots are precisely localized based on the space's geometrical data and output as an alarm to a fire alarm control panel.

The PYROsmart® **pro** series comes into its own when monitoring is required for large areas, open spaces with solar reflections or objects at varying distances. A video camera is also integrated. This combination provides for even more accurate detection and improved evaluation of potential false alarms.



Infrared panoramic thermal imaging in false-color representation. The areas marked in color show an increased temperature.



Benefits and advantages

- Early detection of potential fire hazards
- Also deployable in dusty environments
- Precise localization of dangerous hotspots
- Fully automatic control of targeted cooling and/or extinguishing
- Minimum use of extinguishing agents
- Transparent operation and option for early intervention by organizational fire protection already at pre-alarm stages
- Complete thermal documentation
- Automated event logging and alarm forwarding

PYROsmart® – properties and characteristics

	PYROsmart® pro	PYROsmart® eco	PYROsmart® one
Areas of application	indoors & outdoors, large areas	indoors, medium sized areas	small areas, conveyor systems
Autofocus (infrared autofocus)	✓	x	x
Video camera with zoom	✓	x	x
Fully tiltable	✓	✓	x
Panoramic evaluation/display	✓	✓	x
FACP compatible alarm outputs	✓	✓	✓
Extinguishing control	✓	✓	✓
VdS device approval	Approved: G219023	Approved: G219023	undergoing certification
FM approvals	Approved: FM24US0039	Approved: FM24US0039	Approved: FM24US0039
Permissible ambient temperatures	-25° C – 70° C	-25° C – 70° C	-25° C – 70° C
Dimensions (height x width x lenght) / weight	39 x 24 x 39 cm / 7,7 kg	39 x 24 x 39 cm / 7,3 kg	16 x 16 x 24 cm / 3,3 kg

Early detection of critical temperatures is better than fire detection. This makes all the difference in professional fire protection.

