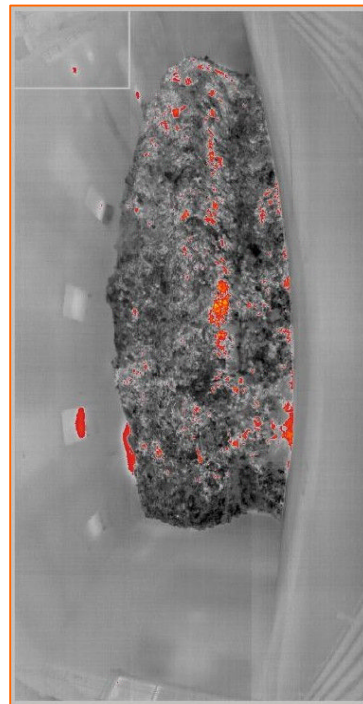
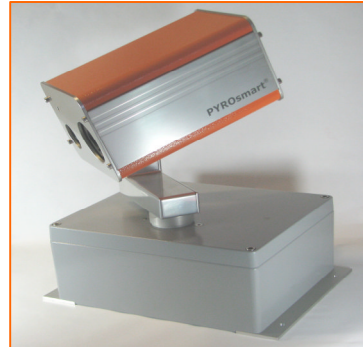


# PYROsmart<sup>®</sup> FP

The intelligent fire early warning system



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# PYROsmart® FP – The revolution in the sector of preventive fire monitoring

PYROsmart® FP

Detecting fires before they happen!

**Fires** can break out unexpectedly when storing waste in incinerators and recycling plants.

When provisioning fuels for coal, wood and substitute fuel power plants, when storing combustible substances on open-air sites and in storage depots there is always the chance that a fire will start.

The reasons are often chemical reactions during storage or introduction of hot substances through third parties.

The quicker an arising fire is detected, the lower the consequential damages.

It is precisely for this purpose that we have developed our patented fire early warning system PYROsmart® FP.



**You** are responsible for the safety in your business or you are the owner?

Perhaps you believe that it will never burn in your area of responsibility because it has never burnt in the past?

If it comes to the worst, the insurance will adjust the claim but not the full loss through production stand-still. Often, the insurance premiums will then rise many times over. In the worst case the insurer will refuse to have you as an insured party in future.

A fire usually leads to production losses. Often, the consequences are considerable delivery difficulties.

In today's times, a customer will not pardon longer downtimes and will most likely turn to a competitor.

Standstills or total failure of a system can quickly end up in the millions.

You can avoid this horror scenario.

# Protect your facilities against fires and avoid a complete failure

**PYROsmart® FP**

Detecting fires before they happen!

**Do you know PYROsmart® FP - our intelligent fire early warning system?**

Where:

- Smoke detectors
- Smoke extraction systems
- Rate-of-rise heat detectors with wires

and other conventional fire warning systems react too late or not at all, or even fail completely PYROsmart® takes over responsibility on time!

PYROsmart® includes the word “smart”. “Smart”, because the system is not only intelligent and virtually maintenance-free but it is also affordable.

The authorities also say “smart”. That is why there are utility models for the design and patents for the processes.

The system is also “smart” because it can distinguish intelligently between non-hazardous hot objects (e.g. the exhaust pipe of a delivery vehicle) and fire-hazard areas (e.g. smouldering nests, smouldering fires).

**PYROsmart® FP already works successfully at these sites:**

- In waste incinerating plants  
e.g. waste bunker. Substitute fuel  
power plant
- Recycling plants
- Open-air storage sites  
e.g. Tyre depots
- Fuel depots
- Container depots



# What is the difference between PYROsmart<sup>®</sup> and conventional monitoring systems:

- High-resolution thermal imaging camera combined with modern video technology
- Safe operation even in the event of a short power failure
- No outside cables, therefore no failures due to cable breaks
- Virtually maintenance-free through innovative gear technology
- PYROsmart<sup>®</sup> simply looks through smoke or fog
- Affordable - low-price, fully integrated system solution
- Sturdy and compact design for use in rough environments
- Integrated heating/cooling system guarantees trouble-free use outdoors
- Modular design - and therefore expandable at any time with further components
- Extremely simple cabling makes installation low-cost and simple
- Simplest operation and intuitively intelligible
- Monitoring of very large sectors - 360° all-round monitoring
- Seamless panorama image through patented **abiroVision<sup>®</sup>** technology
- Integrated dust protection unit guarantees full operation in extreme environments
- Our “**SERVICE complete**” guarantees an exchange within 24 hours. We take care of spare parts provisioning. This saves you costs.

**PYROsmart<sup>®</sup>**

extinguishes fires automatically

Together with our Swedish partner UNIFIRE we have extended PYROsmart<sup>®</sup> FP into an **automatic** extinguishing system. Detecting and extinguishing fires before the damage escalates. That's what PYROsmart<sup>®</sup> FP stands for.

**PYROsmart<sup>®</sup> FP**

Detecting fires before they happen!

**UNIFIRE**



Detecting fires before they happen!

For the first time, seamless close-ups, so-called **panorama thermographies**, are possible.

Our patented **abiroVision<sup>®</sup>**- technology stitches single thermographies seamlessly together to form an always current panorama thermography (see below) of the whole monitoring sector.

Thermal images with a resolution of up to 9600 x 9600 measuring points therefore guarantee a high degree of measuring accuracy.

You do not need special expertise to exchange the equipment. You simply undo four fastening screws and remove the power supply and the network cable. After the exchange, the system starts by itself and takes over all settings automatically!

A zoom-capable video camera is integrated – that allows monitoring the objects at the same time with visual display and thermal image on one user surface. A quick diagnosis of the fire source is therefore possible from a remote location (control room, security service, fire protection centre).

Simplest operation of the user surface. The displays are reduced to the essential so that the operator can concentrate on the safety-relevant tasks (see next page).

Simplest terminal control without peripherals possible through integrated touch screen function.

Optional : Accurate selection of one or several extinguishing monitors for fully-automatic fighting of smouldering nests.

Integrated fire warning outputs for all common fire warning systems.

Trouble-free control of several **PYROsmart<sup>®</sup> FP** with only one operating terminal.

The system can be expanded with further cameras and operator stations at any time.

Our “**SERVICE complete**” guarantees an exchange within 24 hours. We take care of spare parts provisioning. This saves you costs.

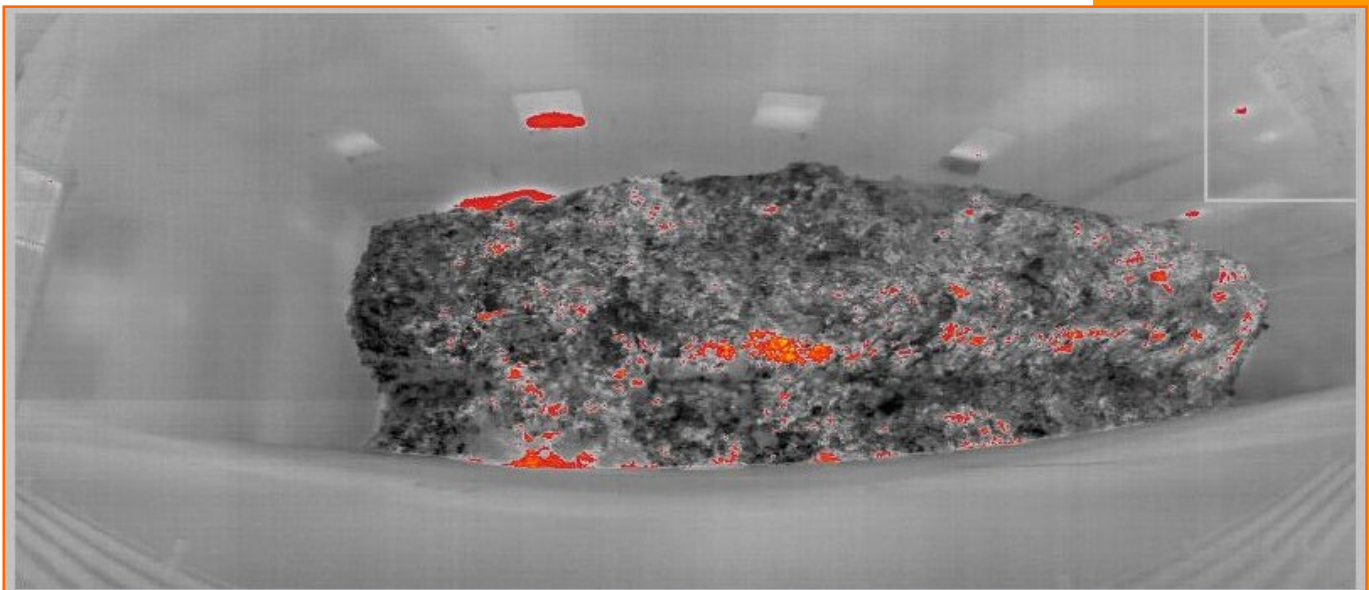


Figure: **abiroVision<sup>®</sup>**- Panorama thermography of a waste bunker

Would you like to get to know PYROsmart® FP?

PYROsmart® FP

Detecting fires before they happen!

We will be pleased to demonstrate the safety advantages of PYROsmart® FP in your company.

This service is free of charge for you.

We look forward to your call!

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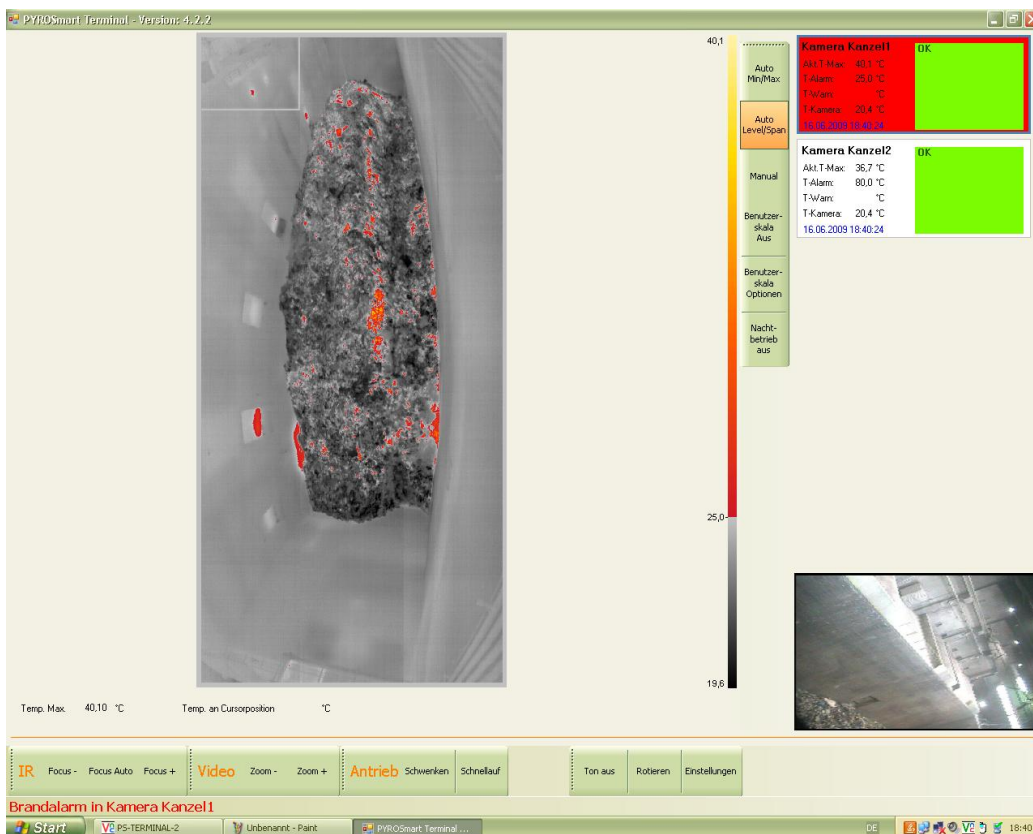


Figure: PYROsmart® User surface