Detect Fires Reliably and As Early As Possible

The **VdS-approved** MOBOTIX thermal TR technology allows you to intervene quickly, avoid damage and protect lives.

- Allows for quick intervention
- Universal use, including outside
- Easy installation and system integration
- Connects to the control center/fire alarm system
- Installed by MOBOTIX-trained and VdS-certified companies
- Low-cost VdS fire protection solution

VdS APPROVED

MOBOTIX
BeyondHumanVision

Certified Fire Protection

MOBOTIX VdS Thermal Technology for Optimal Protection of People, Facilities and Goods

MOBOTIX thermal cameras **identify fire sources remotely** by detecting critical temperature thresholds **reliably and at an early stage**. They often detect these thresholds **before a fire occurs**, even from **distances of up to 60 meters**. This means that the spread of the fire can be effectively fought or, in an ideal scenario, prevented altogether.

Trust the MOBOTIX premium fire protection solution! The **MOBOTIX M16 VdS thermal camera** is intended for use in environments with an increased risk of fire. The solution offered by the camera and additional components is certified by VdS Schadenverhütung GmbH, Europe's largest institute for corporate security, with the **approval number G 222015**.

Monitoring of Outside Areas and Warehouses

- Large, cluttered areas
- Material buildup and bulk goods, e.g. waste in waste management or grain in food processing
- Warehouses with chemicals, wood or paper
- Hard-to-reach areas

Reliable Monitoring of Indoor Areas

- Large rooms and buildings (e.g. halls, high ceilings)
- Warehouses with highly flammable goods
- Inaccessible and unclear areas (dust, fog, darkness)
- Locations open to the public (e.g. schools, airports, public buildings, workplaces)

Monitoring of "Power-Sensitive Areas"

- Triggers an alert if production facilities overheat
- Monitoring of server rooms
- Monitoring of charging stations (electric vehicles and charging stations)

Versatile and Flexible — Applications Beyond Fire Protection

Thermal cameras are ideally suited for monitoring sensitive areas (perimeter protection) day and night, while respecting privacy (data protection). Intruders can be detected and an alarm can be triggered without having to recognize the individuals' faces.

Example Areas of Application

Recycling plants/waste disposal, production halls and warehouses (industry), outside warehouses, outside areas, server rooms, power generators, charging stations, schools and universities, public buildings, airports and train stations.
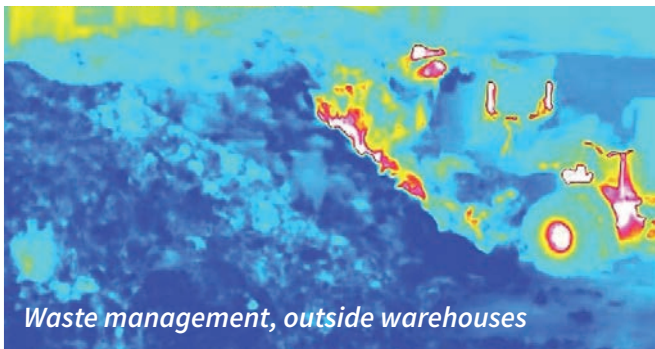

Schools, public buildings

Industrial facilities, warehouses

Ports, airports, large areas

Waste management, outside warehouses

Power-sensitive areas, charging stations

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Sophisticated System for Outstanding Protection

## Overvoltage Protection, Power Supply and Connection to the Control Center

MOBOTIX thermal radiometry (TR) cameras feature a calibrated thermal image sensor. The cameras measure thermal radiation across the entire image area and trigger an event if thresholds are exceeded (camera alarm, network message, etc.). The system architecture for the **VdS-approved solution** consists of the **M16 camera and three interface boxes** and is **equipped** with **special software** as standard.

It is also possible to **upgrade a MOBOTIX M16 TR thermal camera that is already in use** to the VdS level by updating the corresponding software and integrating the interface boxes mentioned above.

System Features and Architecture

- Detected temperature measurement range between **50°C and 200°C**.
- Temperature-related events are triggered when the threshold is exceeded in **one pixel**
- The system must be operated with an approved power supply in accordance with **DIN EN 54-4**
- **Three image angle and range variants:**
  - *45° x 32°, measuring distance up to 40 m*
  - *25° x 19°, measuring distance up to 50 m*
  - *17° x 13°, measuring distance up to 60 m*
- Integrated **microphone and speaker**
- PoE thermal camera with a maximum power consumption of **just 8 W**

All of the hardware and software components needed are available as a single, practical package with the MOBOTIX VdS complete solution!
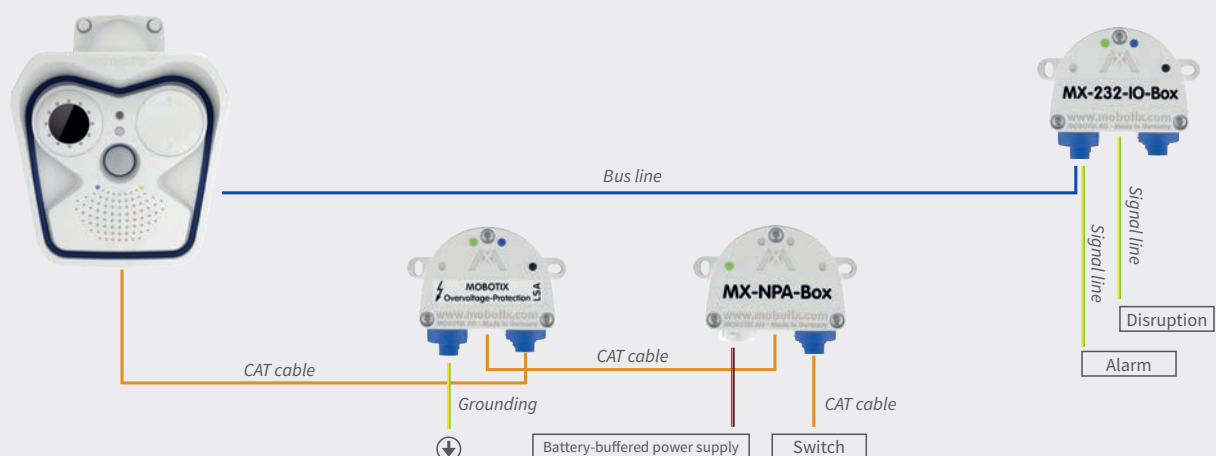
The Benefits at a Glance

VdS	🔥	🏃	🚨
Approved by fire protection institution VdS	Early fire detection for fast intervention	Forwards events to the control center	Automatically triggers an alarm

| 💶	🔌	💧🔨	✔️
Cost-effective fire protection solution	Energy-efficient system (PoE/8 W)	MOBOTIX cameras are robust and weather-resistant	Easy installation and system integration
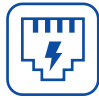
Thermal TR — Effective, Simple, Reliable

Thermal TR technology impresses with its fast, low-cost installation. It is much **simpler** than with linear heat detectors, for example. In addition, the system can react **more quickly**. Heat is detected before it even reaches the ceiling. Unlike aspirating smoke detectors, the MOBOTIX M16 TR **is not dependent on the development of smoke**.
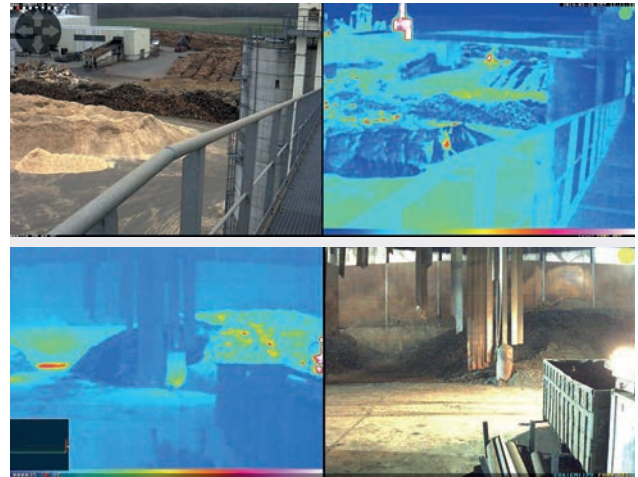
VdS Certificate and Approval as a Trustworthy Quality Seal

- VdS Schadenverhütung GmbH is Europe's largest institute for corporate security
- VdS is accredited for performing various tests and awarding certifications in accordance with DIN, ISO and EN standards
- VdS tests and certifies companies, professionals, components and entire systems for damage prevention
- VdS guidelines are accepted and applied in industry and the insurance sector

Recognized by Insurance Companies — The Best Way to Settle Claims Without Issues

If fire damage should occur, it is important to reach a rapid and comprehensive settlement. It is necessary to have an approved fire protection device, such as the tested MOBOTIX M16 VdS camera, so that insurance companies are willing to insure an object or area (such as outside warehouses). Implementing a system like this might also reduce your insurance premium.

MOBOTIX

MOBOTIX Video Systems — Robust, Efficient and Versatile

MOBOTIX offers industrial quality that is dust- and dirt-resistant. MOBOTIX video systems are robust and weather-resistant. They can withstand ambient temperatures ranging from -30°C to +60°C. The maintenance-free housing provides protection against humidity and corrosion.

The versatile systems stand out thanks to their reduced power consumption, bandwidth-optimized applications and system stability. This allows MOBOTIX to achieve measurable return on investment (e.g. through system downtimes, insurance sums in the event of damage, etc.).

Intelligent Video Security Solutions Made in Germany

MOBOTIX offers a comprehensive range of solutions for all aspects of video-based security. We develop high-quality, decentralized, energy-efficient systems that save our customers money.

Our motto Beyond**HumanVision** is also our mission: MOBOTIX is fully committed to making itself the most reliable company it can be, one that protects people and property by using intelligent, cyber-secure video technology to go beyond human vision.

MOBOTIX video systems feature powerful, high-quality components. Made in Germany. Assembled and put through their paces at our production site in Langmeil. Even in poor lighting conditions, our video systems deliver outstanding image quality for every application in a wide range of industries. You can depend on us!

Your contact:
Talk to us.
We are happy to help you.

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