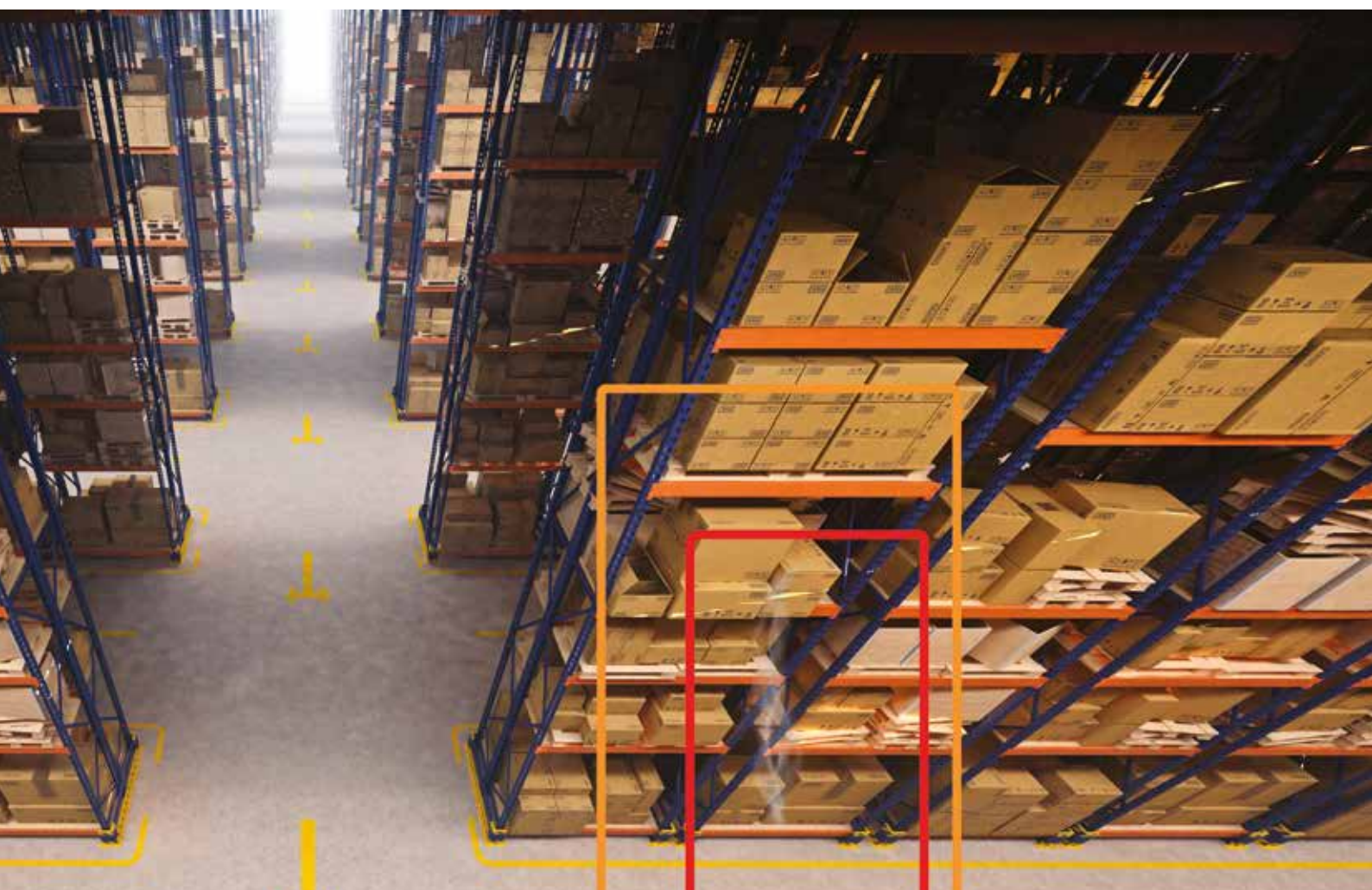


SmokeCatcher®

VIDEO SMOKE DETECTION
FOR CRITICAL ENVIRONMENTS



HELIOS
FIRE SYSTEMS



SmokeCatcher is a reliable early warning system for smoke detection in critical indoor environments. Adding the proven and tested SmokeCatcher video analytics to your visual security camera enables you to detect smoke superfast. This is especially the case in places where traditional smoke detection systems fail due to slow detection or too many false alarms.

SMOKECATCHER SEES IT FIRST



FOR HARSH ENVIRONMENTS

SmokeCatcher works flawlessly in environments where chemicals, dust or vapor are present every day. Unlike traditional smoke detection systems, SmokeCatcher does not generate false alarms because of these phenomena.



FOR HIGH-IMPACT & HIGH-RISK ENVIRONMENTS

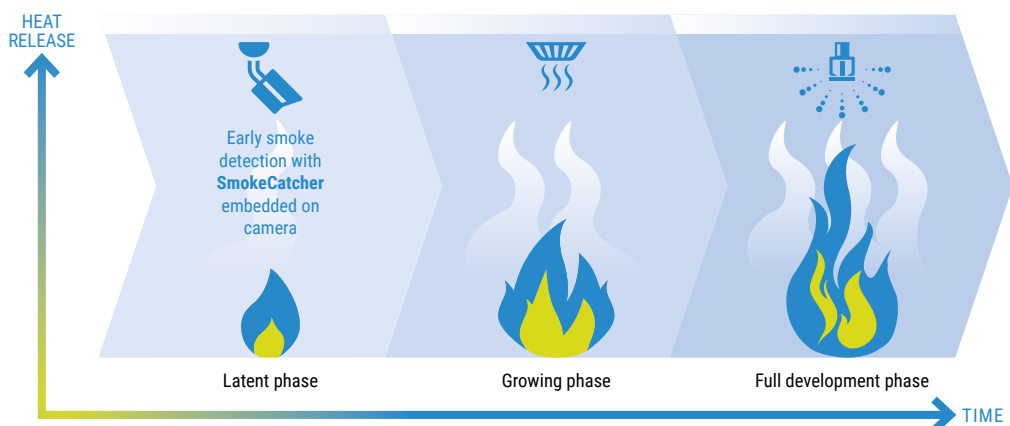
Even a small fire can have big consequences, both in high-impact (e.g. power plants, airplane hangars) and high-risk environments (e.g. chemical plants). Traditional smoke detectors might only get activated when the damage is already done.



FOR GREAT HEIGHTS

SmokeCatcher is ideal for use in tall buildings or large indoor spaces. In these environments, smoke might never reach your traditional smoke detector, because of a process called stratification, which stops the upward movement of smoke.

SUPERFAST SMOKE DETECTION



YOUR BENEFITS

LOW FALSE ALARM RATE

Many traditional smoke detection technologies suffer from high false alarm rates, which can be very costly for your organization. Because SmokeCatcher detects smoke based on visual camera information, the false alarm rate is kept extremely low.

FAST DETECTION

SmokeCatcher does not need to make physical contact with smoke. The system can actually see starting smoke fumes from large distances. This saves many valuable seconds, which can be used to take action before a major incident happens.

VISUAL VERIFICATION

SmokeCatcher makes time-consuming inspection rounds to the smoke source unnecessary, because operators immediately see when and where it happens on their CCTV systems. Recordings of incidents can also be used afterwards for evidence gathering or analysis.

RELIABLE DETECTION

SmokeCatcher video analytics have been developed and fine-tuned based on a vast video database. Our video archive is continuously expanding with customer material, which improves our analytics even more and enables us to cope with a growing number of environments and requirements.

EDGE-BASED ANALYTICS & STORAGE

SmokeCatcher video analytics are fully integrated into your security camera, not installed on a server. This means that there's no single point of failure in your security network. Also, your video stream does not need to travel across your network, so it does not eat up your bandwidth.

REAL-TIME HEALTH CHECKS

SmokeCatcher has a real-time self-test functionality, which enables the device to generate a notification when it is out of order or when detection is impossible, e.g. when the view is obstructed. An additional 'Operational Signal' will ascertain the operator that the algorithm is active and functioning properly.

WHAT'S INCLUDED IN SMOKECATCHER?

SMART SOFTWARE

A software license is the core of your SmokeCatcher solution. The SmokeCatcher algorithm continuously scans the environment and analyzes it in real time to exactly locate the incident.

SEAMLESS INTEGRATION

Helios and its partners offer a smooth integration of SmokeCatcher with your existing devices and systems, including LAN, VMS or Fire Alarm Control Panel.

FANATICAL SUPPORT

Helios's highly skilled integration partners are your first line of support. Whenever needed, our Helios experts are always at the ready to help you out with additional support.

A HIGH-PERFORMANCE CAMERA

SmokeCatcher comes as a high-performance Axis camera, with Helios software fully pre-installed.

ROCK-SOLID CERTIFICATION

SmokeCatcher is a state-of-the-art solution, ahead of legislation. However, Helios offers a Certification Protocol to bridge the gap between technology and legislation.

FLEXIBLE INTEGRATION

SmokeCatcher easily integrates into your existing fire installation via our dedicated interface module, and also connects seamlessly with your VMS or BMS (Milestone, SeeTec, Genetec, etc.).

DETECTION

1 SMOKECATCHER ALGORITHM

- Embedded self-test:**
 - 15 lux
 - Sufficient background detail
 - Lens in focus.
- 4 outputs:**
 - Fault
 - Operational
 - Pre-smoke
 - Smoke.
- Keep alive signal**

1 CAMERA
See Axis camera compatibility list.

ALARM OUTPUT

NETWORK

- 2 The camera can send an e-mail notification about the SmokeCatcher status, including pre- and post-event video recording:**
 - Operational
 - Fault
 - Pre-smoke
 - Smoke.
- 3 SmokeCatcher Bridge plug-in enables integration into any VMS/BMS:**
 - Alarm notification
 - Bounding boxes
 - Event recording
 - Communication fault signal
 - Sound notification
 - E-mail notification.

I/O

Via an Interface Module, the digital I/O's of the camera are converted into hard contacts.

4 FIRE CONTROL PANEL

- Output: SmokeCatcher status:**
 - Operational
 - Fault
 - Pre-smoke
 - Smoke.
- Output: hardware/software status (health check):**
 - Power failure
 - Loss of keep-alive signal.

5 PLC: The interface module has 4 outputs can be sent to any PLC in order to activate rotating beacons, alarm signals, etc.

6 CUSTOMIZED INPUTS e.g. temporary de-activation for lens cleaning.

STORAGE

- 1** SD card in camera
- 7** NVR
- 3** VMS/BMS.

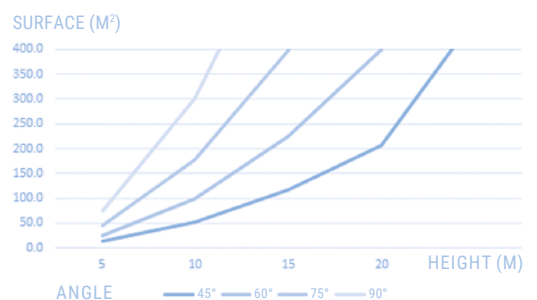
TECHNICAL REQUIREMENTS

For the best SmokeCatcher performance, the following technical requirements should be taken into account:

- A minimum of 15 lux of light should be present.
- SmokeCatcher should be installed indoors or in a roofed area, in order to minimize the effect of various types of weather conditions.
- SmokeCatcher software is intended for use on fixed cameras only. PTZ cameras cannot be used in combination with SmokeCatcher software.
- The coverable surface of the camera depends on the lens type (opening angle of 45°, 60°, 75° or 90°) and installation height. In order to avoid blind spots, the different cameras' fields of view should sufficiently overlap. The cameras should also cover the surrounding walls for at least 3m high.



COVERABLE CAMERA SURFACE





HELIOS

FIRE SYSTEMS



HELIOS SYSTEMS PROVIDE EARLY WARNING, INNOVATIVE TECHNOLOGIES FOR FIRE SAFETY.

We offer advanced, state-of-the-art solutions to protect your business and the local environment around it. Helios are the exclusive UK distributor for Europe's leading fire detection and suppression products - E-DETECT, PYROsmart®, A.T.F.S™, Coldfire, Fire-mist™, AMFE and E-Bulb.

Full project management by our in-house team of engineers is provided for ease, speed and complete peace of mind.

DESIGN

Complete bespoke design of fire systems to suit your business requirements.

SPECIFICATION

Systems are tailored to each individual client requirements, using the most innovative systems throughout Europe.

INSTALLATION

Our in-house team of engineers with over 20 years of fire-prevention experience install and manage the project from start to finish.

SERVICING

Our after sales service includes maintenance contracts for serviceability and continuity over the lifespan of the system.

SPARE PARTS

Our warehouse stocks all spare parts required for servicing installed systems.

COMMISSIONING

As part of system integrity, all projects are given 4 weeks commissioning and testing. This can be re-visited/re-tested throughout product lifespan.

SmokeCatcher[®]

SMOKECATCHER FROM HELIOS

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