



FLAME, SMOKE AND  
INTRUSION VIDEO  
DETECTION TECHNOLOGY

STATE-OF-THE-ART

FIRE DETECTION AND

VIDEO SURVEILLANCE



**Fike**®

ALARM SYSTEMS



Due to the inherent nature of their design, many of today's modern, large structures are not adequately protected against smoke and fire. Features like large atriums, vast open areas and high ceilings, can make the use of traditional smoke and fire detection methods impractical, ineffective and difficult to maintain and operate. High air flows and smoke stratification can prevent smoke from reaching spot-type smoke detectors, adding to the ineffectiveness of traditional fire detection in open area facilities.

## THE SOLUTION: **SigniFire**

### VIDEO FIRE DETECTION TECHNOLOGY

**SigniFire** by Fike, is a turnkey video, flame, smoke and intrusion detection solution. The state-of-the-art, camera-based **SigniFire** detection system, visually detects the presence of fire or smoke at its source, independent of airflow in the area. **SigniFire** a critical advantage for early warning fire detection, identifying and reacting to fire situations in their earliest stages, and protecting lives and property.

- Detects flame in seconds
- Supplies vital, situational, live video to remote locations
- Triggers fire alarm systems
- Provides pre-recorded video forensic evidence for future fire investigations
- Provides video surveillance capabilities



Challenging environments and open area venues no longer have to settle for inadequate fire protection. Protection and security ... that's **SigniFire** video fire detection.

Each **SigniFire** IP camera can be configured with multiple detection and/or exclusion zones within the field of view. These zones are set to either detect specific events (fire, smoke and motion) within the zone, or detect events outside the zone. The activation of each zone can also be linked to time schedules – so the system is always working when you need it, but won't interfere with special events or circumstances.

#### **SigniFire Credibility**

**SigniFire** provides award winning technology, validated by multiple industry leading research facilities including U.S. Naval Research Lab, University of Maryland, FM Global, British Royal Navy

**SigniFire** ... SCALABLE TECHNOLOGY THAT CAN BE APPLIED AS A STAND-ALONE SYSTEM FOR NEW INSTALLATIONS, OR INTEGRATED INTO YOUR CURRENT VIDEO MANAGEMENT SYSTEM.

**DEPENDABLE, INNOVATIVE AND INTELLIGENT**

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ALARM SYSTEMS

## THE COMPLETE SIGNIFIRE LINE OF PRODUCTS:

**SigniFire** ... state-of-the-art fire detection and advanced video surveillance capabilities in a single product family.

### IP Network Camera

The **SigniFire** IP camera combines the enhanced resolution and picture clarity of a standard network camera with built-in flame, smoke and motion detector capabilities. The FM-Approved technology detects:

- Presence of flames within the field of view of the camera
- Reflected fire light when flames are obstructed
- Presence of pluming smoke clouds and ambient smoke
- Unauthorized Intrusion

### FSM-IP

A scalable, network video recorder with video management software, each FSM-IP is designed to support up to 32

**SigniFire** network cameras:

- Constantly records video streams on to internal hard disk
- Includes up to 1 terabyte of circular storage space with on-demand playback
- Provides a platform for monitoring of live videos
- Maintains an event log for all alarm conditions
- Dispatches alarms and videos to remote locations
- Provides a network management interface for configuration and maintenance

### SpyderGuard™

**SpyderGuard** is a state-of-the-art monitoring, investigative and administrative tool designed to seamlessly access multiple FSM-IP servers over an enterprise-wide network or the internet. *SpyderGuard* combines physical security with early warning flame and smoke detection:

- Access multiple **FSM-IP** or **FSM-8** units at a time
- Integrates building, site and floor plans
- Remote monitoring over the Internet
- Remote playback of archived events
- Emails alarms and video snapshots
- Generates commissioning and maintenance reports

### SpyderPanel

**SpyderPanel** is a touch-screen panel designed to provide security personnel with a simplified user interface for quick response to an emergency situation. The intuitive *SpyderPanel* does not require any training to review alarms, video feeds, building plans or vital site information.



*In its simplest form, a SigniFire installation will consist of multiple SigniFire IP cameras connected to the FSM-IP NVR platform over a local area network. Guards and administrators can then monitor and configure the system over this network, or remotely using the internet. Additional FSM-IP NVRs are added as necessary, each capable of handling as many as 32 cameras and providing continuous recording and on-demand video playback.*

## SIGNIFIRE FLEXIBILITY – DVR-BASED EARLY WARNING DETECTION

**SigniFire** is a total video, flame, smoke and intrusion detection solution – scalable and ideal for new facilities, stand-alone systems and some retro-fit projects. However, existing facilities may already have a video security system in place.

*CAN EXISTING SECURITY EQUIPMENT BE USED TO PROTECT THE FACILITY FROM FIRE? **Yes!***

The **SigniFire** FSM-8 is a DVR-based solution for flame, smoke and intrusion detection, designed for use in places where analog cameras are already in place. While the result is a lower image resolution, the

FSM-8 uses the same algorithms as **SigniFire** IP and is capable of detecting and alarming on a variety of events. The FSM-8 DVR

can process the video signals from up to 8 analog CCTV cameras and can be used in conjunction with the **SpyderGuard** and **SpyderPanel** software.

- 8 analog video channels
- Uses standard CCTV cameras
- Multiple unit scalability over IP network
- Remote monitoring over the Internet
- Remote playback of archived events
- Addresses security needs of organization
- FM Approved with certified analog cameras

*FSM-8 can be a cost-effective alternative in many retro-fit and existing security applications. Protection WHEN You Need It.*

*SigniFire's complex detection algorithms provide endless configuration options for optimal system performance and flexibility.*



## FIRE CONTROL PANEL INTERFACE

The **SigniFire** IP camera can easily connect directly to a Fire Alarm Control Panel as a regular smoke and flame detector via three built-in dry-contact relays mounted on the back plane of each camera. These relays are configurable to signal alarms such as flames, smoke, motion and fault conditions which include no picture, camera out of focus and low-light situations. The dry contacts can also be programmed by the end-user to include a delay of the relay closure on specific events to allow video verification before the alarm panel is notified. This delay helps to reduce or eliminate nuisance alarms.

## EXCEEDING YOUR EXPECTATIONS – DEPENDABLE, INNOVATIVE AND INTELLIGENT

CyberCat® – the digital,  
peer-to-peer bi-directional,  
communication system  
that delivers it all.

When smoke and fire threaten lives and property, reaction time is critical. That's why we've designed our **CyberCat** fire alarm and control panels to respond faster than the industry requires, by eliminating polling, delays and interference. Information is delivered simultaneously from the intelligent sensors to the alarm panel and other devices within the system.



This direct communication, or peer-to-peer technology, not only reduces response times, but each **CyberCat** device is capable of generating accurate and highly detailed information. Conventional systems give you a general idea of a fire's location – for example, the second floor of your building. **CyberCat's** intelligent sensors tell you precisely which device is in alarm. And the intelligent **CyberCat** can be programmed to relay information and perform process management tasks.

## UNPRECEDENTED PERFORMANCE



## THE TOTAL SOLUTION

Fike has long been known for being a leader in service, support and delivery in the fire protection industry. No matter what the concern, no matter what the time, we make it easy to reach a trained, knowledgeable Fike representative who will assist you quickly. Combine that with the most advanced technology available in fire alarm systems, competitively priced to meet all your application needs, and you have a total solution for all your fire alarm and fire protection needs.



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ALARM SYSTEMS

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