



Awarded Preferred Distributor of  
SigniFire for Africa in 2007





# SigniFire™ Introduction



Letterform Art by Michael Doret

FROST & SULLIVAN



## Introduction Cont'd



# SigniFire™ Detection Algorithms

- **Ambient Smoke** – Detects smoke that has stratified, gathered at the ceiling, causing blooming around light fixtures, etc.
- **Smoke Plumes** – Looks for the characteristic shape and movement of a smoke plume
- **Fire** – Detects flaming in the line of sight of the camera
- **Reflected Fire** – Detects flames blocked by obstructions or outside the field of view by detecting the reflected fire light
- **Motion** – Configurable motion for intrusion detection



# Introduction Cont'd



## SigniFire™ Integration

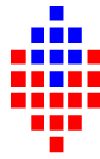
SigniFire units each have 3 dry contact points that can be triggered by different alarm types (Fire, Smoke, Reflected fire etc.). Using these contacts, SigniFire cameras can be integrated into various other systems that can accept Digital I/Os.

Relay Programming

|          |         | Relay 1                             | Relay 2                             | Relay 3                             |
|----------|---------|-------------------------------------|-------------------------------------|-------------------------------------|
| Alarms   | Flame   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
|          | Smoke   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
|          | Offsite | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
|          | Motion  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|          | User    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Troubles | Content | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|          | Focus   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|          | Network | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |



SigniFire can be integrated into IV&C using an analogue to IP video encoder.



**SigniFire™**

# Introduction Cont'd



## SigniFire™ Integration



Using Analogue-to-IP encoders SignFire Cameras can easily be integrated into IV&Cs View Station Software



SigniFire cameras can be connected with either direct IP or analogue via BNC





# SigniFire™ IP Camera



## FEATURES AND BENEFITS

- Detection algorithms embedded on camera
- Intelligent edge device
- Increased System Reliability
- Remote monitoring over the internet
- Addresses the security needs of your organisation
- FM Approved

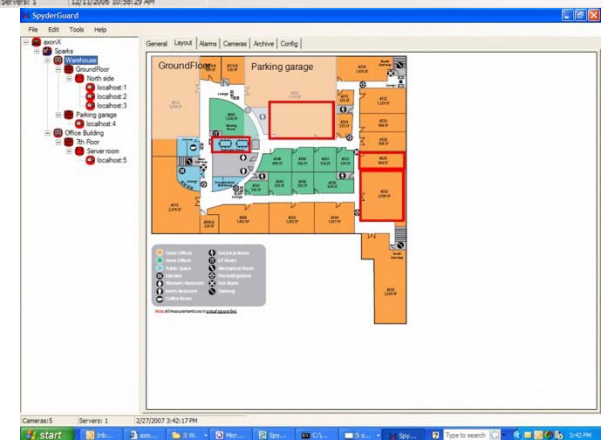
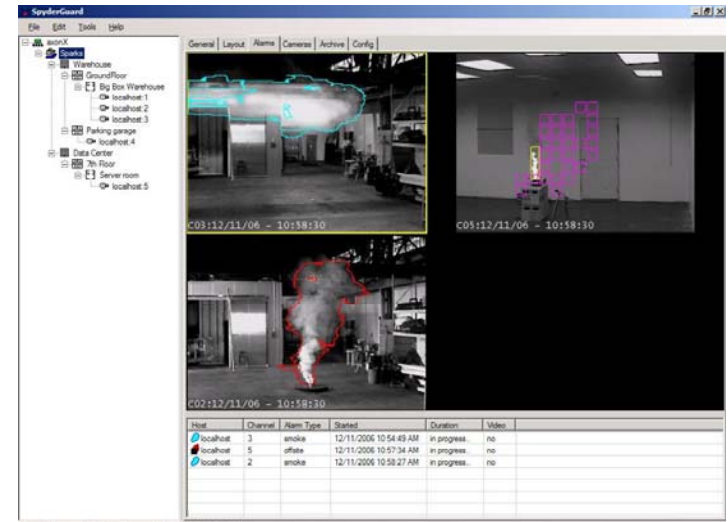


|                            |   |
|----------------------------|---|
| Processor Memory and Clock | Texas Instruments TMS320DM642 Digital Media Processor – 128 MB RAM – Battery backed up real-time clock  |
| Imager                     | Micron CMOS MT9M11  |
| Video Format               | Colour NTSC   |
| Video Resolution           | 640 x 480 (NTSC)  |
| Video Compression          | MJPEG   |
| Minimum Illumination       | 4.8 Foot-candles (48 Lux)   |
| Events Notification Medium | HTTP network based communications – Alarm, Trouble and Auxiliary Dry Contacts   |
| Detector Performance       | Flame: 1 ft pan fire at 100 ft<br>Smoke: Indoor detection verified at 100 ft<br>Motion: Confirmable motion detection based on zones and schedules             |
| Detection Zones            | User defined, including detect/non-detect logic – Each zone may be linked to multiple detection schedules (daily, weekly, monthly, yearly, single occurrence) |
| Dimensions and Weight      | 17.8 cm x 8.1 cm x 5.1 cm; 0.7 kg   |
| Environmental Limits       | Temperature Range 0° to 50° C – Humidity up to 5-95% non condensed  |
| Power                      | Power over Ethernet (PoE) – 12-24VDC – Consumption < 5 Watts  |
| Video Management Software  | SpyderGuard™ API available for video management integration   |
| Connectors                 | RJ45 Ethernet Jack – Terminal Block for three relay outputs and DC power connection – BNC for coaxial analogue out  |
| Lenses Available           | 2.8mm, 6mm and 8mm lenses   |



# SpyderGuard™

- Simple but robust monitoring software application
- Functions on a standard PC workstation
- Provides video surveillance, fire safety monitoring, and allows configuration of an unlimited number of FSM-8 or FSM-IP units
- The software is not centered around the cameras, but rather around the assets under protection
- View the condition that caused the alarm
- Receive an audible voice warning
- Locate the event on building and site plans
- Coordinate response efforts
- Verify validity of Alarm over Video Monitoring





# SpyderGuard™

axonX  
 Sparks  
 Warehouse  
 GroundFloor  
 Big Box Warehouse  
 localhost:1  
 localhost:2  
 localhost:3  
 Parking garage  
 localhost:4  
 Data Center  
 7th Floor  
 Server room  
 localhost:5

General | Layout | Alarms | Cameras | Archive | Config

C03:12/11/06 - 10:58:30

C05:12/11/06 - 10:58:30

C02:12/11/06 - 10:58:30

| Host      | Channel | Alarm Type | Started                | Duration      | Video |
|-----------|---------|------------|------------------------|---------------|-------|
| localhost | 3       | smoke      | 12/11/2006 10:54:49 AM | in progress.. | no    |
| localhost | 5       | offsite    | 12/11/2006 10:57:34 AM | in progress.. | no    |
| localhost | 2       | smoke      | 12/11/2006 10:58:27 AM | in progress.. | no    |
|           |         |            |                        |               |       |
|           |         |            |                        |               |       |

Cameras: 5 Servers: 1 12/11/2006 10:58:29 AM





## NFPA 72 National Fire Alarm Code 2007 Edition

### 5.7.6 - Video Image Smoke Detection

5.7.6.1 - Video image smoke detection systems and all of the components thereof, including hardware and software, shall be listed for the purpose of smoke detection.

### 5.8.5 - Video Image Flame Detection

5.8.5.1 - Video image flame detection systems and all of the components thereof, including hardware and software, shall be listed for the purpose of flame detection.