

IRIS EFD

Early Fire Detection
Thermal Sensor



FIRE PREVENTION

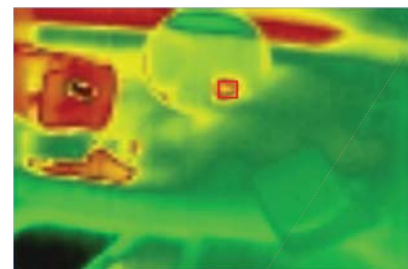
BY EARLY DETECTION

When talking about fire hazard, a reliable fire detector is essential. IRIS EFD can make the difference between an anecdote or a news headline.

IRIS EFD is a compact, robust, and affordable 24/7 monitoring thermal sensor that is specially designed for early fire detection and prevention applications. IRIS EFD continuously monitors infrared radiation within the scene to detect fires even before they actually start. Thanks to its built-in video analytics and complex algorithms, which allows it to sense abnormal increase in heat or temperature rise within the scene. This makes it the perfect solution not only in providing instant warning to building occupants for safe evacuation, but to allow rapid response of emergency services and also to proactively prevent fires from starting in the first instance.

KEY FEATURES

- Complete Solution - Hardware & Software
- 24/7 Early Fire Detection System
- Extremely affordable
- Built-in Self-Tests
- Built-in Video Analytics - Less Network Traffic
- Centralized Monitoring
- False Alarm Elimination
- Power over Ethernet (PoE)
- Indoor/ Outdoor Installation
- Waterproof (Optional)
- Compact, Easy to Install & Calibrate
- Supports Standard Industrial/ Ethernet Protocols
- **5 Years Warranty**



Fire Alarm due to Charcoal



Easy Setup and Configuration



SEEING WITHOUT LIMITS!

APPLICATIONS



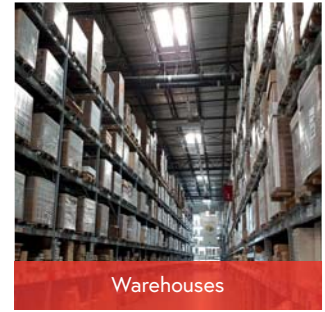
Private Residences



Residential Towers & Balconies



Hotel Rooms



Warehouses

HOW IT WORKS?

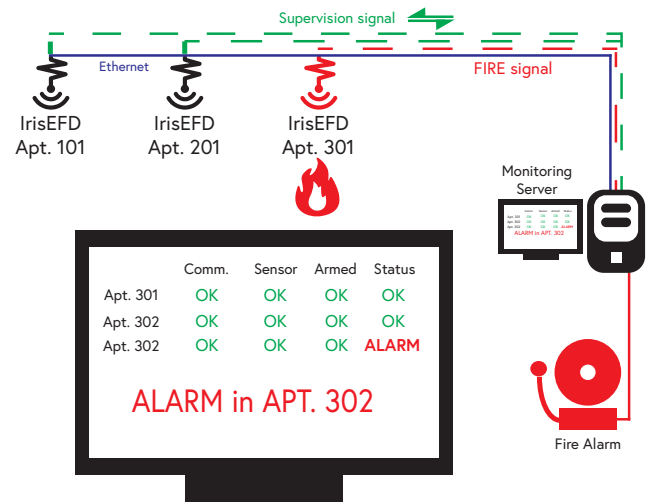
IRIS EFD continuously monitors the scene evaluating the presence of infrared energy. When this energy level goes over an algorithm-determined threshold, a prealarm condition is activated. This prealarm will become a FIRE ALERT if the detection also meets certain pre-defined conditions. This intelligence allows IRIS EFD to discard false positives like cigarettes (*)

Once a fire alert is triggered, a central monitoring server will receive it and act according to the predefined protocol. During normal operation, this server monitors the sensors status and communications.

Privacy is respected at all times, as the sensor only displays heat patterns within the scene.

(*) IRIS EFD can be configured to detect cigarettes if needed, in hotels and balconies, for example.

TYPICAL SETUP



TECHNICAL SPECIFICATIONS

Product designed and made in Spain

Thermal Sensor	
Detector Type	Focal Plane Array (FPA), LWIR uncooled Microbolometer
Spectral Range	8 - 14 μm
Resolution	80 x 60 pixels
Thermal Sensitivity	<50 mK (0.050° C)
Pixel Pitch	17 μm
Image Frequency	8.6 Hz
Non-Uniformity Correction (NUC)	Shutterless, automatic (with scene motion)
Optics	
Field of View (FOV)	50° (H)
Solar Protection	Integral
Focus	Focus Free
Smart Features	
Analytics	On-board
Analysis Functions	Flame, Overheat, or Mixed Mode
Alarms	Supported
Alarms Functions	Threshold, Size, Date & Time, Movement, Schedule
Alarms Output	Email (SMTP), Onscreen Notification/ Sound, Image Storage, Software Trigger
Software & Set-Up	
Color Palettes	GowBow, Gray, Iron, Rain, Yellow
Web Interface	Supported
Central Management Software	Supported & Included

Ordering information:

P/N

EFD-01-I Indoor Standard Version

EFD-01-O Outdoor Waterproof Version

Image Storage & Streaming	
Storage	On-board 16GB and/or Centralized
Storage Format	JPEG
Alarm capacity	Thousands of Images
Streaming Compression	H.264
Streaming Protocol	RTSP
Communication	
Interface	IEEE 802.3 Ethernet 10/100 Mbps
Connector Type	Standard RJ45
Protocols	Ethernet/IP, TCP, UDP, HTTP, SMTP, RTSP, ICMP
Power	
Input	Power over Ethernet, PoE IEEE 802.3af
Consumption	15.4 W max @ 48 VDC
Environmental	
Operating Temperature	-10°C to +65°C
Storage Temperature	-40°C to +80°C
Humidity	95% relative humidity non-condensing
Encapsulation	IP55 Standard/ IP66 Optional (Waterproof)
Physical Data	
Weight	275 g.
Dimensions	Ø 125 x 60 mm.

All products, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise



SEEING WITHOUT LIMITS!

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