Fire & Fire Risk Detection Solutions

SEE BEYOND THE VISIBLE

OPGAL
Beyond the Visible

Fire and Fire Risk Detection Solutions

With cameras operating in the field continuously 24/7 for more than ten years, Opgal's fire detection solution has proven reliable and robust; designed with you, the customer, in mind. The fire detection and risk of fire algorithms ensure your assets and personnel receive adequate warning of potential fire threats.

These alerts ensure enough time to react and avoid potential dangers from a devasting incident. Opgal's cameras are equipped with multiple alert options ensuring you can effectively integrate these solution into your existing equipment with minimal infrastructure.
Will **YOUR** project be next?

Key Benefits

Fire / Hot-Spot Detection
Detects fires and hot spots without smoke, from a few meters up to 6km, day or night.

Proprietary FD Algorithm
Flame behavior analysis for accurate identification and zero false alarms.

Mulitple Lens Options
A wide range of lens options to ensure effective coverage for all projects.

Quick Time to Detect
From 2-10 seconds, dependant on the application.

Multiple Alarm Types
Visual, Serial, TCP/IP, ONVIF and Contact Closure alarms signal an alarm state.

Versatility
Can be used simultaneously for fire detection, security and monitoring.

Rugged Design
Ruggedly designed to withstand the harshest environmental conditions.

Unlimited Detection
The camera can detection an unlimited number of events.
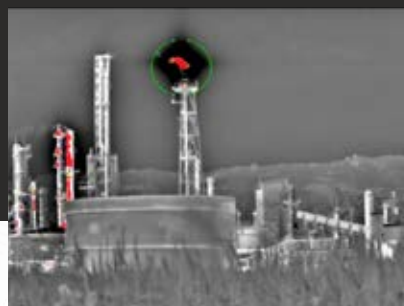
Active Fire Detection

The Fire Detection algorithm detects and identifies a nearly unlimited number fire sources while avoiding false alarms.

The camera requires a minimum of 2 seconds to detect flames. The Fire Detection algorithm accurately identifies large fires at up to 6km in the longest range configuration.

When implemented in the Accuracii camera, one system can monitor several preset locations.

Risk of Fire

The High Risk of Fire algorithm (also called Hot Spot Detection) examines a scene to determine which pixels have exceeded a user-defined temperature threshold.

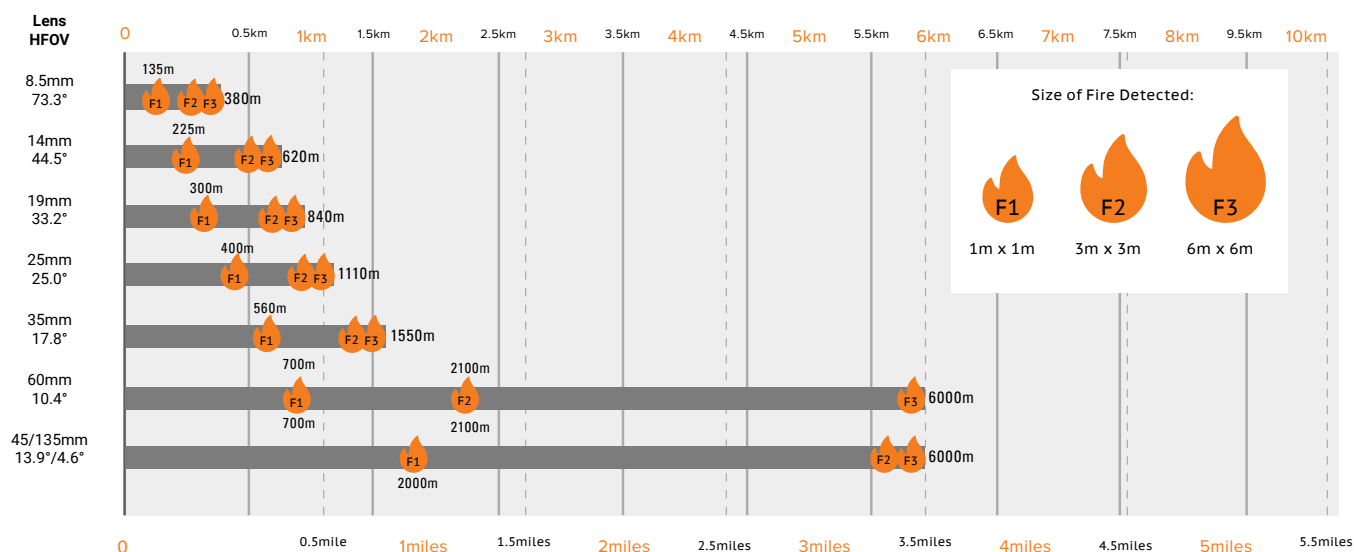Once set it highlights the area that exceeds the threshold in red.

Moving hot-spots, such as an object on a conveyor belt, are clearly identified for a quick response.

Sii AT   Accuracii ML

Lens HFOV

Distance scale (top): 0 | 0.5km | 1km | 1.5km | 2km | 2.5km | 3km | 3.5km | 4km | 4.5km | 5km | 5.5km | 6km | 6.5km | 7km | 7.5km | 8km | 9.5km | 10km

Lens HFOV	F1	F2/F3 range	Distances
8.5mm 73.3°	F1	F2 F3	135m / 380m
14mm 44.5°	F1	F2 F3	225m / 620m
19mm 33.2°	F1	F2 F3	300m / 840m
25mm 25.0°	F1	F2 F3	400m / 1110m
35mm 17.8°	F1	F2 F3	560m / 1550m
60mm 10.4°	F1	F2 / F3	700m / 2100m / 6000m
45/135mm 13.9°/4.6°	F1	F2 F3	700m / 2100m / 6000m / 2000m

Size of Fire Detected:

- F1 — 1m x 1m
- F2 — 3m x 3m
- F3 — 6m x 6m

Distance scale (bottom): 0 | 0.5mile | 1miles | 1.5miles | 2miles | 2.5miles | 3miles | 3.5miles | 4miles | 4.5miles | 5miles | 5.5miles

Specifications Overview

Imager Type
Uncooled 17μ
8-14μm

Sensitivty
NETD: <50°mK

Fire Detection
Flame behavior analysis & hotstpot detection

Thermal Resolution
640 x 480

Lens Options (mm)
8.5, 14.2, 19, 25, 35, 60, 45/135

Time to Detect
Hot Spot: Immediate
Fire: 2 seconds of continuous detection

Typical Applications

- **Recycling Waste Management**
- **Historic Town and City Surveillance**
- **Remote Electric Substations**
- **Oil & Gas Pipelines**
- **Railway Stations and Tunnels**
- **Industrial & Commercial Zones**
- **Port Security**
- **Critical Infrastructure**
- **Storage Warehouses**

24/7
Fire Detection