



# FAEDO

## Fire Alert Early Detection Outdoors

### Automatic detection, location and monitoring of wildfires

FAEDO, the most efficient solution in the market for the early automatic detection, location and monitoring of forest fires.

It consists of a control center and one or several lookouts which continuously analyze 360 degrees around them.

Meanwhile an advanced algorithm identifies and locates quickly and automatically incipient fires. For its fulfillment, a great fieldwork with many prescribed fires and the support of forest fire experts has been performed. The final result is an expert georeferenced system which allows easy configuration, minimal false positive rate and optimal detection capability.

#### Features

- Combines automatic smoke plume and thermal detection systems.
- Adaptable to any communication system.
- 100% remote control system: operations, configuration, updates and tests.
- Solution tailored to the specific terrain conditions.
- Low power consumption: Use of renewable energies.

## Components

- **Thermal sensor:** uncooled sensor, high performance and low maintenance. Installed on a pan and tilt movement system. Interchangeable optics.
- **Visible camera:** independent movement, low luminosity and high optic zoom, minimum 37x.
- **Meteorological station:** real time analysis of temperature, humidity, direction and speed of the wind. GPS and compass for higher precision in the measurements.
- **Process and control system:** SW included to analyze the image and control the equipment.
- **Infrastructure:** Adaptable to any existing or new infrastructure.
- **Management and operation:** web interface for multiplatform access from anywhere.



## Functionalities

- 24/365 operation days per year.
- Day and night detection even under adverse weather conditions.
- Highly reliable: minimal number of false positives thanks to its expert detection algorithm.
- Maximum detection time less than 2 minutes.
- Detection radius up to 20km.
- Precise location through georeferenced image without triangulation.
- Real time monitoring of the fire evolution.
- Automatic and manual operation.



## SW Features

- **Camera viewer:** Real time image, up to 20 cameras, individual control of each camera, visual and acoustic alarm warning.
- **Configuration:** Camera presets modification, temporal masks for sensitivity adjustment.
- **Geographic Information System:** Alarm location on the maps, 3D viewer layers loaded from local computer or WMS servers, real time indication of covered area by each camera.
- **Database:** Storage of alarms, weather information and users actions.

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