



# EFLAME

## ELIMOS FIRE LOOK AUTOMATIC MONITORING EQUIPMENT

### Land monitoring and fire detection system with radiometric infrared camera



#### Description

The **EFLAME** system can realize a reliable and efficient **remote control network** for **fast detecting** any possible **points of ignition of fires** in critical areas where common technologies are not applicable.

The **EFLAME** system may be constituted by a **single stand-alone station**, or by **multiple monitoring stations** managed by a **Remote Control Centre** on LAN/WAN network.

Every monitoring station is made by a **Scanner Unit** including a **radiometric infrared camera** joined with a **Megapixel zoom camera**, installed on top of a **motorized PTZ unit**. The Scanner Unit can be managed by a **local Control Processor** to detect and report any circumstance that could be associated to a fire or danger condition. The monitoring stations can also be part of a wide land monitoring system, modular and expandable, managed by a **Remote Control Centre**.

Depending on the **Field of View** of the used optic (11°, 22°, 44° or 60°), every monitoring station can control a wide area up to more than **4Km of distance**.

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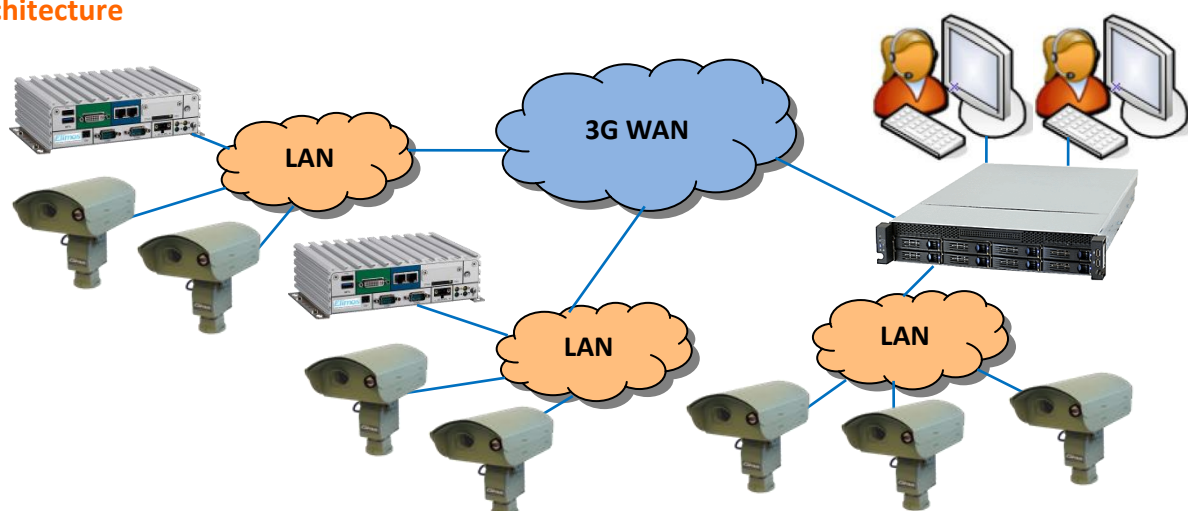
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## Technical characteristics of the Scanner Unit

VISIBLE CAMERA	
Resolution	3MP 2048X1536 @ 30fps
Lens	30X Optical zoom – 4.3÷129mm (61.6°÷2.8°) – 10X digital zoom
RADIOMETRIC INFRARED CAMERA	
Image Resolution	384 x 288 @ 30Hz
Spectral response	8 ÷ 14µm
Horizontal FOW (To be specified in the order)	11° (5mm@10m), 22° (10mm@10m), 44° (21mm@10m) or 60° (30mm@10m)
Temperature Range	0 ÷ 500 °C
Accuracy	±2% o ±2°C
MOTORIZED PTZ	
Horizontal rotation angle	0÷360° continuous rotation @ up to 15°/s
Vertical rotation angle	-60° ÷ +20° @ up to 5°/s
Accuracy	0.01°
POWER / DIMENSION / CONNECTION	
Power	24VDC / 70W (max 100W)
Camera Unit Dimension	520x360x210 mm (LxWxH) including sunshield
PTZ Dimension	195x180x320 mm (LxWxH)
Total Scanner Unit and PTZ weight	~20 Kg
Connectivity	Ethernet 10/100baseT
Protection Grade	IP65 (PTZ IP66)
Temperature Range	-20°C ÷ +50°C (with Megapixel camera) -20°C ÷ +60°C (without Megapixel camera)

## Architecture



The images of the scanned area are processed in **real-time** h24/365 by the local controller (for stand-alone or cluster system) and the alarm could be **locally generated** and/or **transmitted to a remote Control Centre**, with the relevant images to insure a reliable verification by the operator and to allow **fast emergency rescue**.

**EFLAME** stations can be controlled using **wide band networks (LAN)** or **wireless or wired WAN networks** (ADSL, WiFi, 3G).

**EFLAME** allow to create an **high reliability** and **easy-to-use system** for **fast detecting** any possible **points of ignition of fires** in critical areas where common technologies are not applicable as: **open space** (forested areas, woods, plantations, etc.), **storage depots** of organic materials, **waste storage** and processing facilities, **composting plants**, **outdoor deposits** of hazardous or flammable materials (eg. sulfur, coal, etc.), ...

**EFLAME** ensure a **costs optimization** through his **flexible, modular** and **expandable** architecture.

For further information about the products and the applications please visit [www.elimos.it](http://www.elimos.it)

