EVOLUTION 5000 Series

Thermal Imaging for Police and Military Applications

MSA
The Safety Company

EVOLUTION 5000 Series – Modular & Versatile Thermal Imaging System

Thermal imaging history

Along with things like GPS, thermal imaging is a technology spin out from the military sector. Based on Infra Red (IR), thermal imaging appears for the first time in the United States in the 1960's. The Thermal Imaging Camera (TIC) sensor reacts to IR energy and translates the thermal signatures in a scene (people as well as objects) in to visible images, whatever the normal visibility conditions are (including total darkness or dense smoke).
TIC technology is different from the night vision technology which relies on gathering any available light and amplifying it. The MSA EVOLUTION TIC also provides you with temperature information of the scene.

In the next few pages, whether you work for the Army, Navy, Police, or civil authorities such as the Fire Service and disaster control, you will see the outstanding possibilities offered by MSA EVOLUTION TICs.

Everyday use of your EVOLUTION TIC

General Applications

- Reconnaissance and movement in a zero visibility environment
- Driving in zero visibility environment
- Fire fighting
  - Assessing the fire scene
  - Identification of the causes of a suspect smoke emission
  - Localisation of the fire seat and area of the fire
  - Reconnaissance and movement in a zero visibility environment
  - Preparation of fire attack
  - Determination of ventilation points
  - Monitoring the effectiveness of cooling/damping down
  - Search and rescue
  - Detecting hidden hot points, during and after the fire
- People/Victims/Runaway research, whatever the visibility level
- Forensic evidence
- Quick identification of hot points invisible to the naked eye
- Detection of the presence of hot gases
- Evaluation of the levels and monitoring of hazmat or inflammable product containers
- Detection and identification of the origins of polluting chemicals in a river
- Maintenance purposes
- Training and assessing the fire fighting techniques

Marine Applications

- Navigation in a zero visibility environment
- Detecting piracy threats during night navigation
- Fire fighting (see details under General Applications)
- Search and rescue (ie: man overboard rescue)
- Monitoring of vessel engines and electric equipments
- Hot gases leak detection
- Fluid leak detection
- Detection and identification of the origins of polluting chemicals in the sea

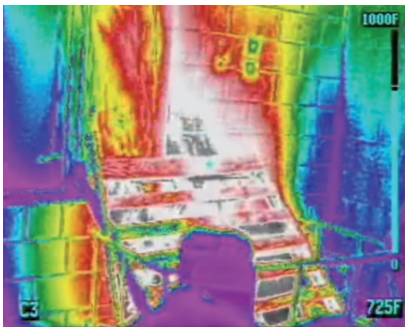
Aviation Applications

- Detection of overheated undercarriage and brakes
- Aircraft and hanger fire fighting (see details under General Applications)
- Woodland fire spotting
- Locating missing passengers
- Fuel storage tanks

Police Applications

- Night and day time operations and surveillances
  - determine the number of suspects and monitor their activities in and around targeted buildings, parking lots, etc
  - Scan alleys, neighbourhoods, and wooded areas without alerting suspects to your presence
  - Find vehicles with warm engines and tires in total darkness, such as large parking lots at night
  - Pursue suspects through fog and foliage in wooded areas
  - Detect fresh prints in cool night temperatures and body impressions on car seats of recently abandoned vehicles
  - Drug laboratory and production site spotting

MSA TICs are your best choice …? Want to know why, please read on



Perfectly adapted to your operational needs and your budget requirements, MSA EVOLUTION TIC's are ahead of the competition because of their:

- High image quality
- Consistent reliability
- Simplicity of use
- Robustness and durability
- Ergonomic design
- Reduced weight and compactness
- RFI shielded

Additional EVOLUTION models are available

EVOLUTION 5200 HD

EVOLUTION 5800

The range of available accessories includes, Video capture, vehicle-mounted chargers, retractable lanyard, sun shroud ...

Videocapture

Vehicle-mounted charger

Sun Shroud

Retractable lanyard

It is no accident that a great many specifiers and operators, whether they are from the Police, Marine, Miltary, or Aviation sectors already use and trust MSA EVOLUTION TICs around the world.

Tests & Technical Data

Tests Conducted On All Components

Water/Dust Ingress	CEI, IEC 529, IP 67 Classification
Direct Flame	Simulated NFPA 1981-2002 Edition
Heat Exposure	Simulated NFPA 1982-1998 Edition
Vibration	MIL-STD-810E Category 1 Loose Cargo Transport
Radio Frequency Interference	Compliance with: directive 89/336/EEC in accordance with EN 61000-6-2 and EN 61000-6-4, FCC Part 15
Rollover (Truck Charger)	Simulated NFPA 1901-12,1.7
Impact/Drop	3 consecutive times onto concrete from 2 metres at any angle (For Video Capture & Transmitter 1.22 m)
Heat	260 °C for > 8 minutes 120 °C for > 20 minutes

EVOLUTION 5000 Modular Thermal Imaging System

IP-67 test


Flame test

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