

# FLIR ORION SC7000-Series

MW & LW Waveband Multispectral Thermographic Systems For R&D And Signature Analysis

- *Fast multispectral radiometric imagery*
- *MW & LW systems*
- *4 sub-band analysis*
- *Customizable filters*
- *Variable exposure time from filter to filter*
- *Extremely extended dynamic range*
- *Wide range of lenses*
- *Gas detection, IR signature, Flame analysis*



## FLIR ORION SC7000-Series Features

The ORION SC7000-Series is dedicated to multi-spectral analysis applications where spectral imaging and speed are a must.

### High Frame rate parallel sub spectral bands analyser

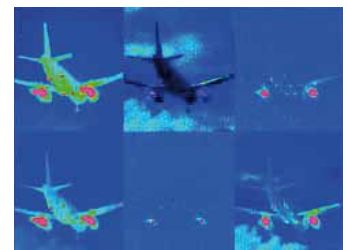
The Orion SC7000 Series system is an infrared multispectral radiometer capable of producing IR sub-band images at video rate within the SW-MWIR or LWIR region. This high performance system uses the latest state-of-the-art focal plane array (FPA) detector technology along with real-time, large dynamic range electronic modules. Infrared radiation from the scene under investigation is collected through a front lens, designed to offer minimal aberration across the full IR wavelength range.

### Configurable filter wheel setup to match different type of analysis

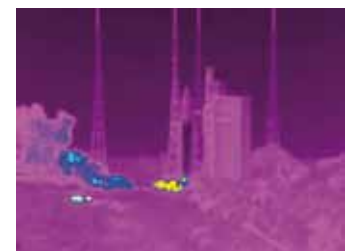
A filter wheel is inserted between the lens and the focal plane. The rotation of this filter wheel is driven synchronously with the FPA clocking, such that a single image snap shot is obtained for each particular filter position.

### Versatile system with traditional infrared camera mode

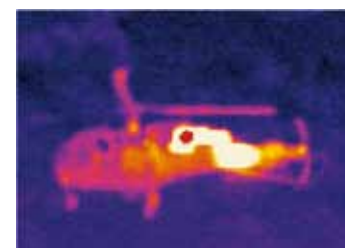
The Orion SC7000 is capable of capturing up to 400 frames per second, each high quality image being captured in snap-shot mode. The integration time is variable by software and can be different for each filter. An image is captured for each given position of the filter wheel, providing true multispectral imaging. The Orion SC7000 Series can also be used as a normal IR camera at full speed by removing or stopping the filter wheel. Further to image acquisition, the image data is processed by the ALTAIR software.



Orion SC7000 provides sub spectral bands for signature & phenomenology applications.



Its numerous configurations available adapt to every spectral situations.



Its fast frame rate with see-thru-flame and CO<sub>2</sub> filters allows flame and combustion analysis.

