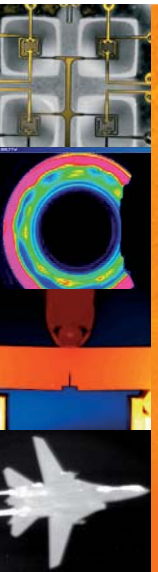




SC7000 SERIES

Complete Range of State-of-the-art
technology systems for R&D
and Thermography



- > Features NUC Free operation with CNUC™ and Hypercal™
- > Broad Range of detectors to address any application
- > Customisable optical interface
- > Smart Trigger with advanced capabilities
- > Motorised filter wheel
- > Plug & play interface with CAMLINK / GigE / USB2
- > Synchronous acquisition of external analogue signals
- > Thermography analysis with Altair Software
- > NDT and Thermomechanics with Altair LI system

Complete Range of State-of-the-art technology systems for R&D and Thermography



- 1 High performance FPA with high durability cooler
- 2 USB2.0 / GigE
- 3 CAMLINK interface to transfer digital video at faster frame rate
- 4 Removable Lens interface with embedded filter wheel
- 5 Smart trigger Input with Ultra Low Jitter
- 6 Analogue Signal Inputs
- 7 High quality S-Video
- 8 Rugged cast aluminium housing

Accessories

Altair radiometric software
 Software development Kit (C++ / Labview)
 Factory temperature calibration
 Spectral filters
 Battery pack for up to 4 hours autonomy
 USB advanced acquisition trigger module
 Attached Video Screen
 Embedded tablet PC
 Industrial grade connectors & cables

The SC7000 Series is specifically designed for academic and industrial R&D applications as well as integrators who need to have a very flexible camera, with the highest sensitivity, accuracy, spatial resolution and speed at an affordable cost.

The SC7000 Series are integrated system, which complement SC5000 Series dedicated for industrial quantitative thermography and stress analysis. Its compact size allows implementation of the SC7000 Series into small spaces, and its removable lens interface gives complete flexibility in the optical path. The SC7000 Series is available with a wide range of detectors to address any application in single and multispectral analysis. Each of them has a programmable frame rate and integration time. External triggering allows synchronisation of the image capture to the most fleeting events with 3 external analogue signals. The SC7000 Series can be easily connected to a laptop computer through its truly plug and play and state of the art Camlink, USB2 or GigE interfaces.

Technical specifications

Feature List for SC7000 Series*

Sensor type	InSb or MCT or QWIP
Waveband	3 - 5 μ m or 8 - 12 μ m (optional 1.5 - 5 μ m)
Pixel resolution	320 x 256 or 640 x 512 available / 14 bits
Pitch	30 μ m / 25 μ m / 20 μ m / 15 μ m
NETD	< 18 mK
Cooler	Integrated stirling cooler
Max Full Frame rate	Up to 380 Hz (up to 30 KHz with reduced image size)
Integration time	1 μ s to 20 ms variable by 1 μ s step
Optical interface	M80 Thread, removable for custom design
Field of view	From 44°x36° (12 mm) to 2.75°x2.2° (200 mm) X3 microscope lens
Filter wheel	Wheel 4 slots motorized
Digital output	USB2 / CAMLINK / GigE
Trigger input	Smart trigger capabilities Pre & post trigger features Ultra low jitter LVTTTL signal Optical fibres in option
Temperature calibration range	Available from -20 °C to up to 3000 °C
Temperature measurement accuracy	\pm 1 °C or \pm 1 %
Extended dynamic range	Multi IT™
*Best specifications	
Integrated features : 3 external analogues signals, Lockin processing, Hypercal™, CNUC™	

Physical specifications

Size (w/o lens) (LxWxH)	253x130x168 mm
Weight (w/o lens)	4.950 Kgs
Base mounting	Standard UNC 1/4"
Operational temperature	-20 °C / +55 °C
Shock	Operational 25G, IEC 68-2-29
Vibration	Operational 2G, IEC 68-2-26
Input voltage	+12 VDC / Battery
Power consumption	< 30 W

Optional lenses - Bayonet mount

12 mm F2	44 x 36 °
25 mm F2	22 x 17 °
50 mm F2	11 x 8.8 °
100 mm F2	5.5 x 4.4 °
200 mm F2	2.75 x 2.2 °
Microscope lens G1 F/2	9.6 x 7.7 mm
Microscope lens G3 F/2	3.2 x 2.6 mm
Lens Extenders	

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