

FLIR SC2000-Series

High Performance VNIR, NIR & SWIR cameras for Imaging and Thermography

- High sensitivity VisGaAs, InGaAs and HgCdTe focal plane array cameras
- Spectral response from 400 nm up to 2500 nm
- Removable filter holder / wide selection of filters available
- Frame rate up to 340 Hz full frame
- Wide dynamic range
- Ultra sharp and high uniformity images for best imaging performances
- Thermography capabilities for accurate high temperature measurements
- Plug & Play interface with USB2.0 / GigE / CAMLINK available



1 SC2200-S
2 SC2500-N / -VN

FLIR SC2000-Series Features

High sensitivity

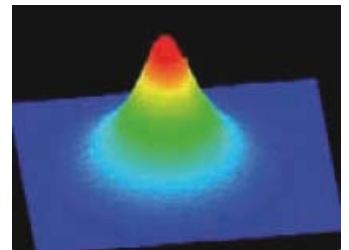
The SC2000-Series cameras provide an extraordinary sensitivity in the near and short infrared spectrum. Whether you go for the SC2500-VN VisGaAs (0.4-1.7 μm), SC2500-N InGaAs (0.9-1.7 μm) or SC2200-S HgCdTe (0.8-2.5 μm) version, these cameras will perfectly match your application, could it be drug concentration evaluation, laser beam profiling or high temperature measurement.

Spectral tuning capabilities

Each SC2000-Series camera features a 1 inch filter holder thus allowing selection of spectral sub-bands to adapt system's response to the application. The fully removable C-Mount interface makes the camera easy to be integrated into complex optical instruments, such as interferometers or spectrometers.

Powerful yet simple

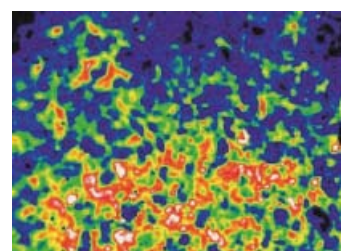
Every SC2000-Series camera is fully compatible with our ALTAIR imaging software. ALTAIR's intuitive user interface allows click and go setup of the camera. ALTAIR displays and stores radiometric images at full frame rate to the hard drive with full 14 bit dynamic range.



The SC2000-Series are a perfect choice for laser beam profiling thanks to their extraordinary high sensitivity.



The extended spectral range of FLIR's NIR and SWIR cameras allows seeing through materials such as paint or blood. Water or ice presence into materials is also enhanced.

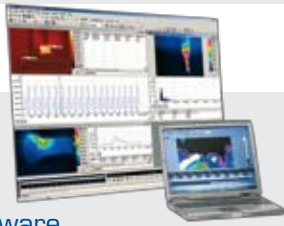


The SC2000-Series cameras provide crystal clear images of silicon based components such as Si wafers or solar cells.

Camera Functions



- 1 High performance FPA with TEC Cooler
- 2 USB 2.0 / Camlink Interface (SC2200-S)
Giga-Ethernet Interface (SC2500-N/-VN)
- 3 Filter Holder
- 4 Input / Output Trigger
- 5 High quality S-Video
- 6 Removable C-Mount interface
- 7 Lock-In Input for signal-to-noise ratio



Software

- **Altair radiometric software**
Ease of use, flexible layout, real time storage, camera control, radiometric features
- **Thesa Lock-in Thermography software**
Provides full field stress imaging contactless and in second
- **Software development Kit (C++ / Labview)**

Accessories

- Spectral filters
- Broad range of lenses available
- USB advanced acquisition trigger module
- Factory temperature calibration



Training

FLIR cooperates with Infrared Training Centre, an independent, ISO certified, worldwide training facility. ITC offers infrared training, certifications accepted by many standardization organizations, and specialized instruction in various application areas. For more info visit www.infraredtraining.com.

FLIR SC2000-Series Specifications

Features*	
Sensor type	VisGaAs, InGaAs or HgCdTe
Spectral Band	0.4 – 1.7 µm, 0.9 – 1.7 µm or 0.8 – 2.5 µm
Image Size	320x256 pixels / 14 bits
Pitch	30 µm
Windowing (down to)	128x8 (user defined)
Max Frame rate	Full frame: 340 Hz (SC2500-N) / 206 Hz (SC2200-S) Up to 15 kHz @ 128x8 (windowing mode)
Integration range	From 400ns to up to 1s, 1µs step
Sensor cooling	TE-cooling (ON / OFF modes)
Sensor Gain	Selectable (x1 or x20) (SC2500)
Well Capacity	3.5Me- or 0.17Me- (SC2500-N) / 1.38 Me- (SC2200-S)
*Best specifications	
Electrical Interfaces	
Digital Output	14bits Gigabit Ethernet
Analog Output	PAL or NTSC, Composite
Trigger	LVTTL
Lock-in (SC2500-N)	Up to 10V amplitude - data synced to image
Mechanical Interfaces	
Size (w/o lens) (LxWxH mm)	SC2200-S: 169x106x90 (head) / 254x106x232 (unit) SC2500-N/-VN: 50x82x172
Weight (kg) (w/o lens)	SC2200-S: 1.1 kg SC2500-N/-VN: 0.9 kg
Base mounting	Standard photo mount
Optical Interface	Removable C-Mount with filter holder
Available lenses	25 mm / 50 mm / 75 mm / 100 mm Specific lenses upon request
Filter holder	Removable, for 1" filter, up to 2mm thickness

Authorised FLIR dealer:



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Please contact your local FLIR office to define the best configuration for your application.