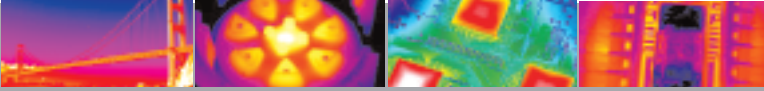




The Global Leader in Infrared Cameras

ThermoVision® SC6000 MWIR

SCIENCE GRADE INFRARED CAMERA



High speed, high resolution, science-grade infrared camera with Gigabit Ethernet, Camera Link and USB interfaces for maximum flexibility and performance. Available in multiple wavebands, detector resolutions, and lens configurations.



- > Multiple Detector/ROIC Modes
- > Adjustable and Triggered Integration Times
- > Gigabit Ethernet, Camera Link™ and USB
- > Simultaneous Analog and Digital Data Output
- > Automatic Preset Sequencing Mode
- > Integrated IRIG-B Time Stamp
- > Powerful RTools Software
- > SDK Available

Control Analog & Digital Data Streams Independently

The SC6000 has simultaneous and independent analog and digital output data streams. An example of this capability would be sending corrected imagery to a video monitor while un-corrected data is being sent to a digital recording system. This capability also works in windowing mode maintaining the analog video output.

Adjustable Integration Times (9µs to full frame)

SC6000 supports up to four active presets, or operating modes, with adjustable integration times, embedded non-uniformity correction and bad pixel replacement. The presets can be used individually or in a continuous cyclic mode for preset sequencing and superframing.

Adjustable Frame Rates

Through the SC6000 user interface, the user can adjust the frame rate output of the camera. This can be done with adjustability down to 1Hz of the camera output.

Fast Frame Rates

The SC6000 IR Camera features extremely fast frame rates – 50 Megapixel Throughput (120 fps 640x512 / 420 fps 320x256).

Variable/Flexible Sub-sampling/Windowing

SC6000 supports windowed readout modes, allowing a subset of the total image to be selectively read out with user-adjustable window size and offsets. Windowing can greatly increase the output frame rate.

Built-In IRIG-B

IRIG timing is built directly into the SC6000 camera providing accurate time stamping to the camera header information.

Multiple Video Outputs

The SC6000 features multiple independent video outputs to include:

- **Analog** – Composite (BNC)
- **Digital** – Camera Link
- **Digital** – Gigabit Ethernet

Optional Software & SDK

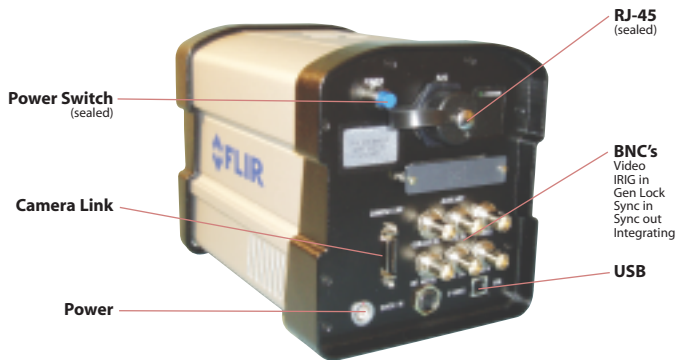
The SC6000 is compatible with ThermoCAM RTools software for data acquisition, analysis and reporting. Additionally the SC6000 has an optional Software Developers Kit (SDK) for custom programming.

ThermoVision SC6000 MWIR Technical Specifications

Read-out Integrated Circuit (ROIC) & Focal Plane Array (FPA)
Indium Antimonide (InSb) - 640 (H) x 512 (V) Pixels
Advanced ISC0309 ROIC
25 micron pixel pitch
99.5% Operability
Wavelength Range: 3 - 5 μm (1.5 - 5 μm optional)
Electronics & Data Rate
640 x 512 @ 120 Hz Digital Output
30 Hz Analog Output Independent of Digital Output (Frame Buffer)
Windowing capability for increased frame rates
Inputs / Outputs
Gigabit Ethernet (RJ-45) for Command & Control / Digital Data Transmission
Camera Link Base for Command & Control / Digital Data Transmission
USB for Command & Control
IRIG-B for time tagging of images, synchronizing to external events – via BNC
Sync-In for triggering the camera to external devices – via BNC
Sync-Out for triggering external devices to the camera – via BNC
Genlock for triggering the analog video – via BNC
Integration Active – via BNC
Analog Video – RS-170A – via BNC
Performance Specifications
25mK Sensitivity (18mK typical)
Environmental
One Piece Design (5" wide x 6" tall x 7.7" long)
-40 C to +71 C Operational
95% non-condensing

Digital Data & Communications	
Command & Control (user selectable)	Gigabit Ethernet RJ-45 USB Camera Link
Data Output (user selectable)	Gigabit Ethernet Camera Link
Physical Specifications	
Size (L x W x H)	5" x 6" x 7.7"
Weight	10 lbs.

CAMERA INTERFACES



*See Configuration Table above



Made in U.S.A. 



The Global Leader in Infrared Cameras

1 800 464 6372
www.flirthermography.com/sc6000data

Specifications subject to change. © Copyright 2005, FLIR Systems, Inc. All rights reserved. 1060705PL