

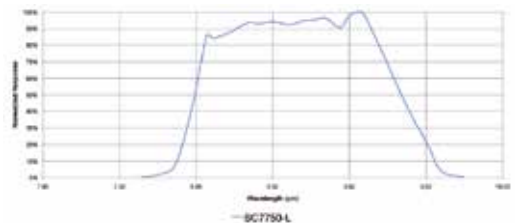
# FLIR SC7750-L

State-of-the-art Infrared Systems For R&D And Thermography Applications

## Technical Specifications

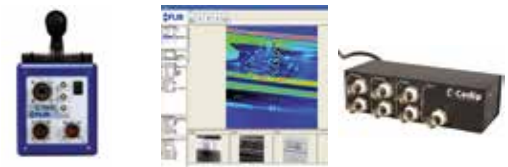
Feature List For SC7750-L		LWIR
Sensor type		MCT
Waveband		8 - 9.4 $\mu$ m
Pixel Resolution		640 x 512
Pitch		16 $\mu$ m
Aperture		F/2
Cooler		Close-cycle (rotary) stirling cooler
Sub array windowing		User defined size arbitrary location
Frame rate		115 Hz
Max frame rate in subwindow mode		Max. 62000Hz with 48x3 pixels
Integration time		200 ns to 20 ms programmable (100ns step) ITR
Optical Specifications		
Optical interface		M80 Thread Optional Janos Interface Optional Motorized Interface
Measurement		
Temperature calibration range		-20 °C to 1500 °C in single ranges or in extended mode
Temperature measurement accuracy		$\pm$ 2°C or $\pm$ 2 %
NETD		<35 mK typical
Filter wheel		4 slots for 2x1" filter 1 mm thick
CNUC™ and Hypercal™		Yes
Timing & Signals		
Analogue video		PAL or NTSC, S-Video & composite
Digital video		CAMLINK / GigE
Trigger input / output		LVTTTL (3.3V) Signal Programmable Delay & Active level Ultra low Jitter
Trigger jitter		< 100 ns
Analogue signal inputs		1 x (-5 to 5 V) + 2 x (0 to 10 V)
Physical Specifications		
Size (w/o lens) (LxWxH)		253x130x168 mm
Weight (w/o lens)		4.950 Kgs
Operational temperature		-20 °C / +55 °C
Shock		Operational 25G, IEC 68-2-9
Vibration		Operational 2G, IEC 68-2-6
Input voltage		12 VDC
Power consumption (cooldown / stab)		30 W / 25 W
Optional Lenses		
12 mm*		46° x 36°
25 mm*		22° x 17°
50 mm*		12° x 9.3°
100 mm* (LW only)		5.9° x 4.7°
200 mm		2.93° x 2.34°
Microscope lens X1*		10.2 x 8.2 mm
Microscope lens X3*		3.4 x 2.7 mm
Lens Extenders		
Janos lenses compatibility		

\* Motorized Lens Interface Compatible



Typical Camera Spectral Sensitivity

## Accessories



Optional Industrial Grade Connectors & Cables

Thesa software - Lockin / Stress Analysis

USB record triggering rack

### Also available :

- Altair radiometric software
- Software development Kit (C++ / Labview)
- Factory Temperature Calibration
- Spectral filters
- Battery pack for up to 4 hours autonomy
- Industrial Grade Connectors & Cables
- Motorized Lens Interface with Autofocus