



**Designers and Manufacturers of
Quality
Scientific Instrumentation Since 1985.**

*Mission Statement: "To serve the New Product Development market in the field of
Optical Spectroscopy with dedication, integrity and excellence"*

SCIEL420CM: TERAHERTZ LITHIUM TANTALATE PYROELECTRIC DETECTOR HEAD (100-150kV/W SENSITIVITY)

Sciencetech's proprietary wideband detector design comes packaged in our standard "hockey puck" enclosure (2" diameter x 1" high) and is connectorized to be powered with the EOS PS-1 power supply or EOS LIA/PS-1 lock-in/power supply

Features of our SCIEL420CM Wide Band Pyroelectric Detector:

Element size:	2.03 mm dia.	
NEP	1.0e-9 Watts	(10Hz, 1Hz BW)
Frequency response	0.5 Hz - 150Hz	(-3db points)
Sensitivity	100-150kV/W	
Flat Bandwidth	300nm-2.1 μ m +/- 3%	(Quartz)
Saturation Power	30mW	

Warning: Response (and calibration value) will be reduced by 3% with 50/50 chopped. Input at 2 octaves (4x/25%) above/below the -3dB points. i.e. -3% at 2Hz and 40Hz typ.

On board jumper converts sensitivity from total power to power density.

Power requirements: +/- 15 to +/- 24 volts max @ +/- 5 mA max.

Options:

Sapphire, germanium, silicon, CaF₂, BaF₂, or KBr windows are available instead of quartz at extra cost, please specify when ordering

Specialized calibration options at extra cost, please speak to a Sciencetech representative or write to sales@sciencetech-inc.com

Lock-in module (price not included in standard detector package)



Head Office: 1450 Global Drive - London - Ontario - Canada - N6N 1R3 – Tel. +1 519 644-0135 Fax. +1 519 644-0136 - **Sales Office:** 1920 Yonge St, Suite 200 - Toronto - Concord - Ontario - M4S 3E2
Phone: +1 416 572-7567; Fax. +1 416 572-7501

E-mail: sales@sciencetech-inc.com URL: www.sciencetech-inc.com
