

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

SCI425CMB0 LARGE AREA TERAHERTZ DETECTOR

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 directly from the Stanford SR-810/830 type lock-in amplifiers and optimized to utilize the full input range of these lock-ins for FTIR applications.

Features of our SCI425CMB0:

This detector is not hygroscopic and may be operated indefinitely under normal atmospheric conditions and at temperatures beyond 100°C. A selection of windows is available to limit spectral response.

Our current specifications for Sciencetech's SCI425CMB0: subject to change without notice)

Spectral range: (no window ,blackened):	100nm - 3mm
Element size:	5 mm dia.
NEP	6.6E-10 Watts
Responsivity:	16kV/W,
Input saturation:	85E-6 Watts
Damage threshold:	1 Watt (5 W/cm ²)
Output offset:	+/- 1 mV (typical, 25° C)
Output saturation:	+/- 1.4 V(Stanford overload lights before saturation)



Note: The response to long wavelengths has not been tested.

Power requirements: +/- 15 to +/- 24 volts max @ +/- 8 mA max.
Power connections: (Connectorized for Stanford SR 510/810/830)

DB-9M	Pins 2,3,4,5,9 no connection
	+V In Pin 1
	-V In Pin 6
	Common Pin 7
	Case GND Pin 8