



FEATURES

- Spectral Bandwidth from 900-1700nm
- Accepts Pulse Energy from 3 μ J to 7mJ
- Maximum Fluence of 10mJ/cm² for 10ns Pulse Widths
- Handles Beam Diameters up to 5"
- Pyro-Electric Detector for Detecting Laser Pulse Energy
- When Used with IRWindows™ Capable of Analyzing up to 2,048 Continuous Pulses in a Single Measurement
- 1GHz InGaAs Fast Detector for Detecting Laser Pulse Temporal Characteristics
- 1GHz 4GS/sec Digitizer Used to Capture Laser Pulse Waveforms
- Optical Density Attenuator Holder for Customer Supplied Attenuator
- LAN Ethernet Port for Communications and Data Download to Optional IRWindows™ PC

OVERVIEW

The TEM is calibrated for use over the 900nm to 1700nm spectral range. It is controlled from an IRWindows™ PC via an ethernet connection through an Infinity Laser Controller. The TEM can also be controlled independently from SBIR's IRWindows™ automated test software for even greater functionality and data collection.

The Temporal Energy Module (TEM) together with IRWindows™ provides a single module solution for measuring laser pulse temporal and energy characteristics. Absolute and repeatability measurements of Pulse Energy, Pulse Period and Pulse Width are performed using the TEM.

Solutions

for Every EO Test Requirement

30 S. Calle Cesar Chavez, Suite D • Santa Barbara, Ca. 93103
ph (805) 965-3669 • fax (805) 963-3858 • <http://www.sbir.com>



SYSTEM SPECIFICATIONS

Maximum Input Fluence.....	10mJ/cm ² for 10 ns pulse widths
Minimum Detectable Energy.....	3μJ
Maximum Detectable Energy.....	7mJ
Maximum Average Power.....	5 Watts
Pulse-to-Pulse Repetition Rates.....	Single Shot to 20Hz
Pulse Width Range.....	3 to 30ns
Maximum Number of Recorded Pulses.....	2,048
Spectral Range.....	900nm to 1700nm
Pulse Energy Measurement Accuracy.....	± 5%
Pulse Amplitude Measurement Accuracy.....	± 7.1%
Pulse Width Measurement Accuracy.....	± 5%
Pulse Period Measurement Resolution.....	0.1 μsec
Communication Speed.....	10 Mb/sec Ethernet LAN

ORDER INFORMATION

Please contact the SBIR sales team at (805) 965-3669 to receive more information about this product.

* Specifications are subject to change without prior notice

Solutions

for Every EO Test Requirement

30 S. Calle Cesar Chavez, Suite D • Santa Barbara, Ca. 93103
ph (805) 965-3669 • fax (805) 963-3858 • <http://www.sbir.com>