



TeraSys® – ULTRA

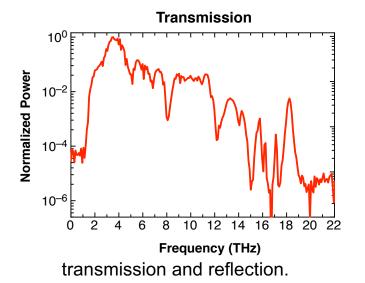
Ultra-Wide THz Bandwidth for Spectroscopy and Imaging

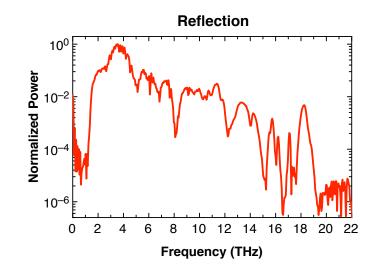
The **TeraSys® – ULTRA** is the ultimate solution for real time, THz imaging and spectroscopy. It is a compact terahertz instrument addressing: sensing, detection, analysis and processing methods at terahertz (THz) frequencies in real time. It is based on organic crystals to allow access to terahertz frequencies up to 20 THz not available with conventional photoconductive antennas.



- Frequency range 0.3 20 THz
- Spectral resolution 2.7 GHz
- Real-time acquisition, 4 spectra per second
- Purge chamber with humidity sensor
- Dedicated software, computer control
- Compact design, maintenance free

Frequency domain spectrum measured with the *TeraSys*® – **ULTRA** using DSTMS organic crystals as terahertz generator and detector in





TeraSys® – ULTRA Specifications

Spectral range 0.3 – 20 THz

Spectral resolution 2.7 GHz

Acquisition speed 4 spectra per second

Scan range >300 ps

Dynamic range >70 dB (@ 4 THz)

Dimensions 55 cm x 60 cm x 30 cm

Pump Source (high power ultrafast fiber laser)

Pulse length < 20 fs

Total average power > 200 mW
Peak Power > 240 kW
Central wavelength 1565 nm

Repetition rate 40 MHz

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