TeraSys® - ULTRA

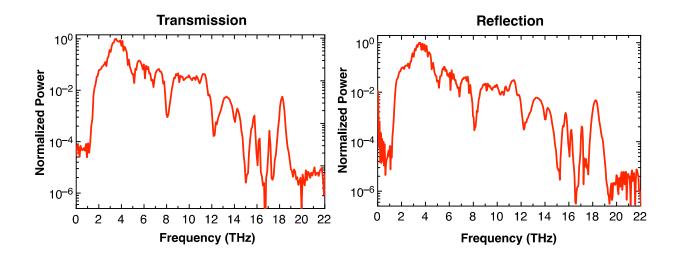
Ultra-Wide THz Bandwidth for Spectroscopy and Imaging

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 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
- Real time acquisition, 4 spectra per second
- Purge chamber with humidity sensor
- Dedicated software and computer control
- Maintenance free
- Compact design

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



TeraSys® – ULTRA Specifications

Spectral range 0.3 – 20 THz

Acquisition speed 4 spectra per second

Scan range >300 ps

Dynamic range >70 dB (@ 4 THz)

Frequency resolution < 10 GHz

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