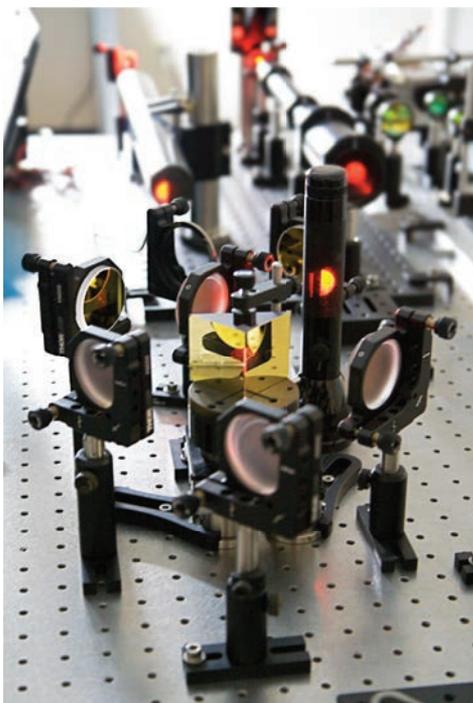


# RTI

## Real Time Interferometer



The RTI is a solid-state interferometer that is able to acquire single-shot spatial interferograms. The device is optimized for the THz frequencies characteristic of ultrashort electron bunches and incorporates a novel, sensitive pyroelectric detector array. This array provides a stable, solid state readout at high repetition rates. Our RTI is a compact package that can provide non-destructive bunch length measurements.

For more information, see our published paper in RSI, *Demonstration of a real-time interferometer as a bunch-length monitor in a high-current electron beam accelerator*.

### FEATURES

- Dry gas purgeable
- Solid state readout
- All-reflective optics
- Computer controllable electronics available

### STANDARD SPECIFICATIONS

Frequency response.....0.2 - 20 THz

Footprint ..... 30.5 x 45.7 x 17.8 cm

Optimum beam size .....3.2 cm



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