



## FEATURES

- Flexible integrated umbilical
- Robust electrical connection
- Nylon and Kevlar protected optical fibers
- Interchangeable and reversible
- Variety of umbilical lengths available
- Polarization maintaining fiber

## BENEFITS

- Keeps laboratory uncluttered
- Protected fibers extend life
- No worries of fiber breakage
- Identical umbilicals provide ease of use
- Fiber coupled sensors allow scanning
- Stable measurements for data collection

# T-Ray<sup>®</sup> 5000 Umbilicals

The T-Ray<sup>®</sup> 5000 is the first compact pulsed terahertz measurement system that is robust enough to be deployed in an industrial environment and has all of the flexibility provided by our fiber coupled sensor heads in a rack mount package. By having replaceable sensor heads, the T-Ray<sup>®</sup> 5000 can be configured to fit your specific application.



All of the T-Ray 5000 sensor heads or measurement tools are attached to the T-Ray 5000 Control Unit by an umbilical that includes both electrical and optical connections. The specific form of the umbilical depends on the specific application.

Umbilicals for the T-Gauge Control Unit are compatible with the T-Ray 5000 (see data sheet for T-Gauge Umbilicals and Extensions). Umbilicals can be up to a total length of 45 m from the control unit to the sensor head.

When a separate transmitter and receiver are required for experimental flexibility, two separate umbilicals are required. These separate umbilicals are available in 2, 5, 10, and 30 m lengths. They connect to the T-Ray 5000 using a UMA5001 Umbilical Adapter.

PARAMETER	SPECIFICATION	UNITS
Polarization Extinction Ratio	<20:1	
Available Lengths	2, 5, 10, 30	m