

T-Ray® 5000 Umbilicals

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.

APPLICATIONS

- Terahertz Time Domain Spectroscopy; solid, liquid, gas phase; polymorph discrimination; explosive detection
- Terahertz Imaging: high resolution (150 microns); high speed (800 pixels per second); THz CT imaging
- Art Conservation: identify construction; image through pottery; view previous repairs; non-destructive
- Security Research: baggage screening; personnel screening; shoe screening; anomaly detection

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[®] 5000 Umbilicals

SPECIFICATIONS

Polarization Extinction Ratio >20:1

Available Lengths 2, 5, 10, 30 m

QUALITY VISION

As a leader in terahertz instrumentation, Advanced Photonix, Inc is committed to providing the highest quality ultrafast products on the market. This quality vision commits us to continually improving our product designs and manufacturing processes in order to ensure the highest level of customer satisfaction. The company maintains a stringent quality control program to ensure that all products meet or surpass customer requirements



2925 Boardwalk • Ann Arbor, MI 48104, USA
phone: 734.864.5600 • fax: 734.998.3474
sales@picometrix.com
www.advancedphotonix.com