



FEATURES

- Fiber coupled to allow easy movement
- Ultra-broadband measurement
- Transmitted or reflected data collection
- Mates with collinear adapter (AXA4001)
- High signal to noise ratio
- Hot swappable with other transmitters
- Low noise to enable rapid data collection
- Adjustable lens tube for focusing
- Multiple lens configurable available

BENEFITS

- Rapid configuration of measurement
- Perform transmission or reflection spectroscopy
- No need for multiple transmitters
- Easy collinear reflection configuration
- Speed data collection, less averaging
- Quickly optimize performance
- Use for high speed imaging
- Easily obtain maximum bandwidth
- Save money by changing lenses, not transmitters

T-Ray[®] 5000 HTS40n2

Transmitter (Type 2)

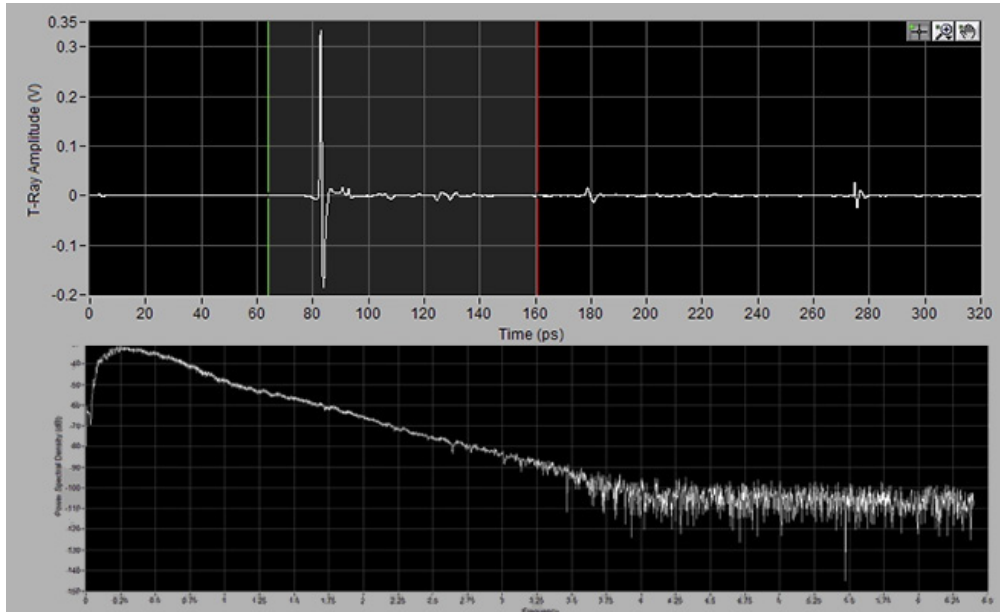
The HTS4002 Transmitter Type 2 for the T-Ray[®] 5000 balances high output power with high spectral bandwidth and minimizes features following the pulse to allow high quality images and detection of multiple layers in reflection with less need for post processing of the waveform.



Coupled with an HRS40n1 receiver, the HTS40n2 provides bandwidth over 3.5 THz and signal to noise ratio above 70 dB. By balancing bandwidth and power, the HTS40n2 is ideal for applications where both high resolution imaging and broad spectral range are desired.

APPLICATIONS

- Terahertz Time Domain Spectroscopy; solid, liquid, gas phase; polymorph discrimination; explosive detection
- Nondestructive materials inspection: aircraft; packaged goods; radone inspection; spacecraft; pipeline repairs
- Converting applications: paper coating; multilayer films; tire



ORDERING INFORMATION

Included

1.5 in. diameter lens (1, 3, or 6 in. working distance)
Adjustable lens tube

Typical Configuration

Terahertz Controller
Umbilical adapter
Umbilical pair (5, 10, 30 m)
Transmitter and Receiver

PARAMETER	SPECIFICATION	UNITS	COMMENTS
Polarization Extinction Ratio	<20:1		Horizontal
Standard Lens	25, 75, 150	mm	Collimating lens also available
Beam Diameter	38	mm	
Mounting Configuration	1/4-20		threaded mounting hole
Size	7.5 x 7.5 x 15		
Weight	275	gm	