

ADVANTEST®

Terahertz Spectroscopy Systems

TAS7400 Series

Low-Cost Spectroscopic Analysis Systems For Diverse Applications



ADVANTEST

TAS7400 Series

Terahertz Spectroscopic Analysis at the Push of a Button. Low-Cost, General-Purpose Terahertz Spectroscopic Systems from Advantest

The TAS7400 Series of low-cost, general-purpose spectroscopy systems offers terahertz spectroscopic measurement for diverse applications. These systems can be easily operated by general users without specialized environmental controls. The TAS7400 Series enables non-destructive spectroscopic analysis of samples for users in a range of fields: chemical and industrial materials, and also the life sciences, electronics, and others. It is an ideal tool for industrial applications and basic research.



Key Features

- Superior spectroscopic performance at a low price
- Compact desktop form factor
- Supports terahertz spectroscopy in the 0.03 ~ 7THz band
- Multiple spectroscopic analysis modes: transmission, reflectance, ATR (Attenuated Total Reflection), and transmission polarization
- External dry air unit eliminates water vapor absorption interference
- Sample holders and cells for liquids, powders, and other types of samples included

TAS7400 System Configurations

Application	Sub-terahertz material R&D	General spectroscopic analysis	Spectroscopic analysis at frequencies up to 7THz
Partial List of Supported Materials*	Dielectric materials, biological materials, paint, plastics, wall materials	Polymers, polymorphic crystals, biological materials, controlled substance, metamaterials, foods, construction materials, farm produce	Liquid solutions, oxide materials, biological materials, graphene, resins
Measurement Modes Supported	Transmission, reflectance	Transmission, reflectance, ATR, transmission polarization analysis	Transmission, reflectance, ATR
Frequency Range	0.03 ~ 2 THz	0.1 ~ 4 THz	0.5 ~ 7 THz
System	TAS7400SL Low-Frequency Configuration	TAS7400SP Standard Configuration	TAS7400SU Broadband Configuration

* This is a partial list of supported materials given for illustrative purposes. Some materials listed may also be analyzed at frequencies other than those given.

