

Terahertz Wave Spectroscopy and Analysis Platform TAS7400TS/TAS7500TS Variable Incident Angle Optical Set SHT-710232

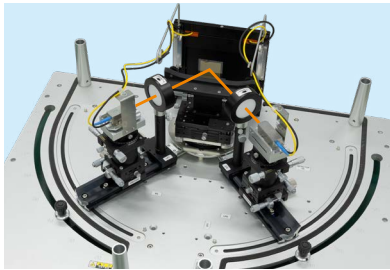
Usage Example of Transmission/Reflection Measurement

Sample

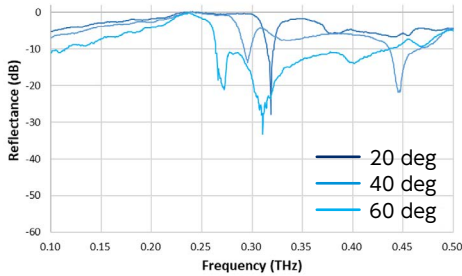


Frequency Selective Surface for J-band

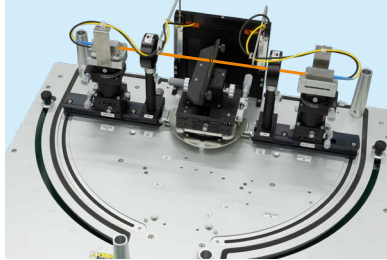
Reflection Measurement
(variable incident angle)



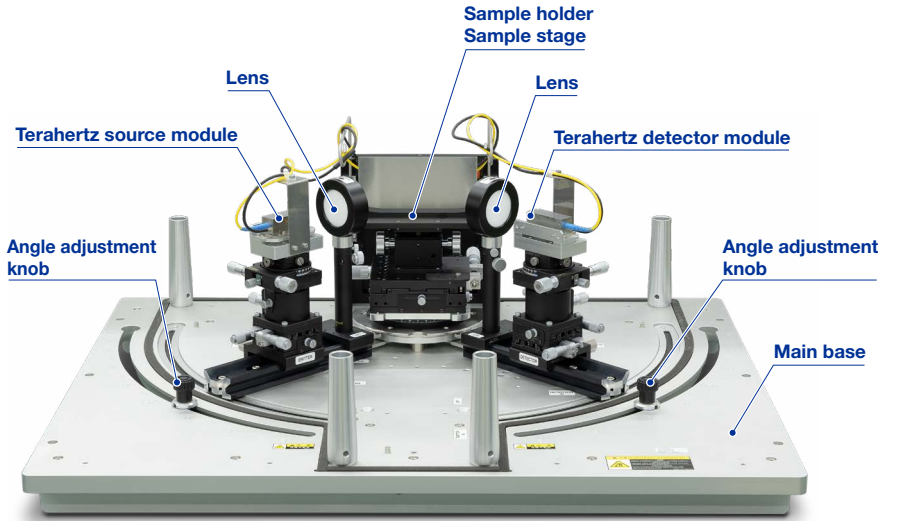
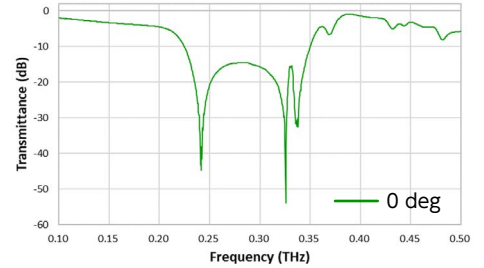
Reflectance (20°/40°/60°)



Transmission Measurement



Transmittance



Basic system configuration (30 GHz to 2 THz)

Standard Configuration of TAS7400TS



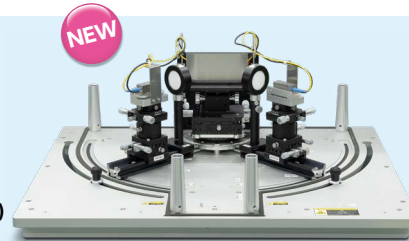
Source module
TAS1120

Detector module
TAS1220

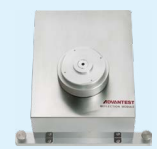
Frequency domain
measurement
Time domain measurement



SHT-210067
(Transmittance module)
+
SHT-710068
(Spectroscopic
measurement base)



SHT-710232
(Variable incident angle optical set)

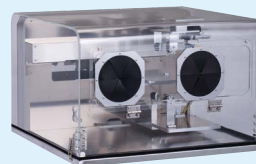


SHT-210068
(Reflection module)
+
SHT-710068
(Spectroscopic
measurement base)

Transmission measurement

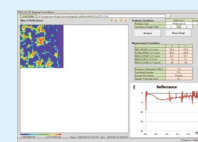
Reflection measurement

Mapping measurement



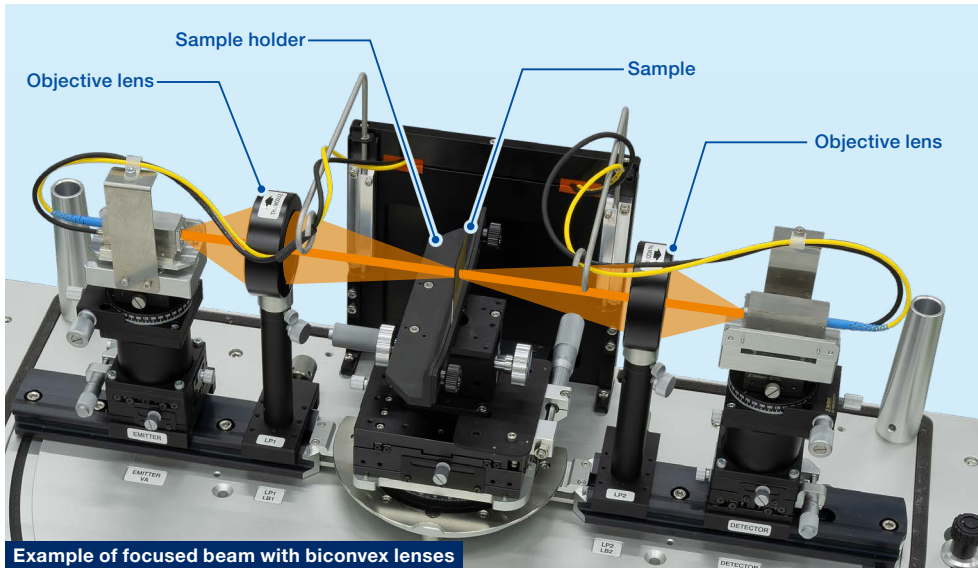
SHT-710122X04 (Spectroscopy/Imaging System)
PYSI74-08MNIS (Automatic Control Measuring Option)

Automatic Control Measuring Option



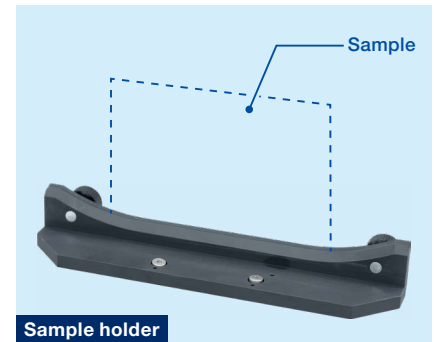
High Frequency Resolution Option
PYSI74-10MNIS

Layout of the optical set



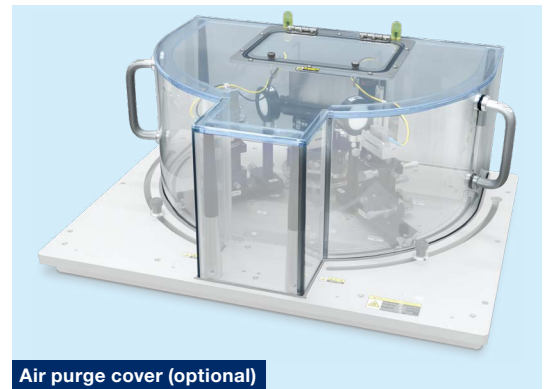
Switchable from a focused beam to a collimated beam by replacing the biconvex lens with a plano-convex lens (both accessories).

(Used for variable incident angle transmission/reflection measurements)



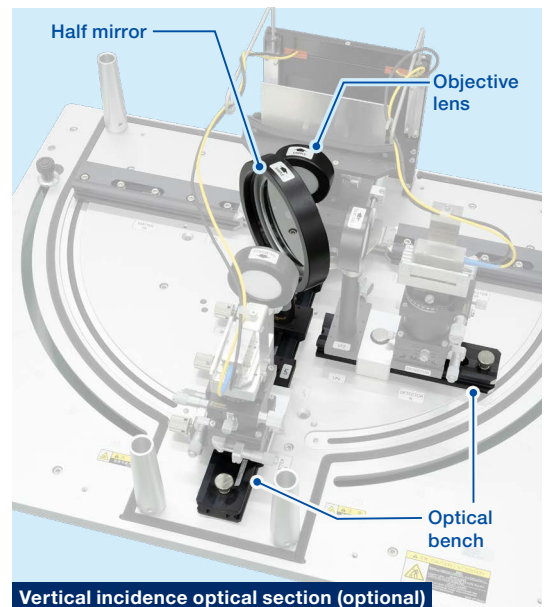
Specifications

Item	Specifications
Variable incident angle (reflection angle) range	Continuously variable angle: 20° to 90°
Sample size	Plate sample, thickness 1 mm to 10 mm, maximum 100 mm (H) × 150 mm (W)
Measurement optical arrangement	Transmission / reflection / perpendicular incidence (0°)
Beam shape	Collimated beam / Focused beam *Switchable by exchanging lenses
Mountable terahertz module	Source module: TAS1120 (up to 2 THz), TAS1110 (up to 4 THz) Detector module: TAS1220 (up to 2 THz), TAS1230 (up to 7 THz)
Polarization	P-polarization / S-polarization *Adjustable by changing the arrangement of the terahertz module
Dimensions (WxDxH: mm)	820 x 630 x 350
Weight	64 kg or less



Optional specifications

Item	Model No.	Specifications
Air purge cover	SHT-710239	External dimensions (W x D x H: mm) 690 x 608 x 290
Incidence optical section	SHT-710233	Composition: Half mirror, objective Lens, optical bench
Sample holder set	SHT-710240	Sample holder 1 : Aperture size : 20 mm, Shape : Circular
		Sample holder 2 : Aperture size: 20 mm × 40 mm, Shape: Slotted hole
		Sample holder 3 : Aperture size: 20 mm × 80 mm, Shape: Slotted hole



● Specifications and external view are subject to change without notice

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