



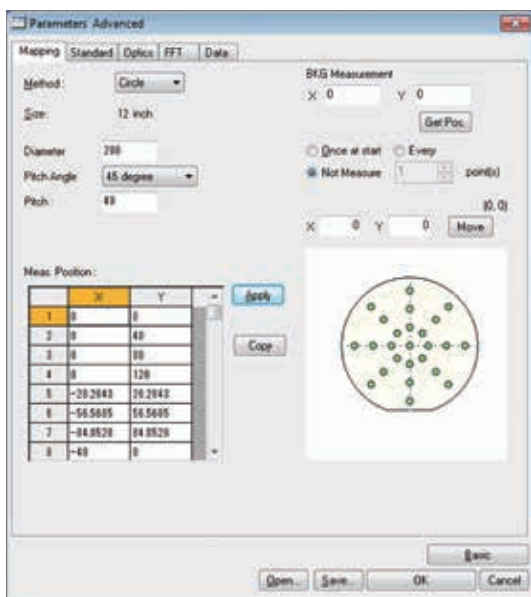
Wafer Measurement System

FT/IR-4000/6000 series Fourier Transform Infrared Spectrometers

The Auto Y-theta stage, which can be mounted to the sample compartment of the FT/IR-4000/6000 series, enables to perform the transmittance/reflectance measurement of wafer sample up to 12 inches. This wafer measurement system is powerful tool for thickness measurement and impurity evaluation of Si wafer.

■ Features

- Non-destructive and non-contact measurement by using infrared spectrometry
- High precision and reproducibility
- Various measurements are available by collaborated with optional program “Concentration quantitative program in Si”



- Mapping measurement setting dialog

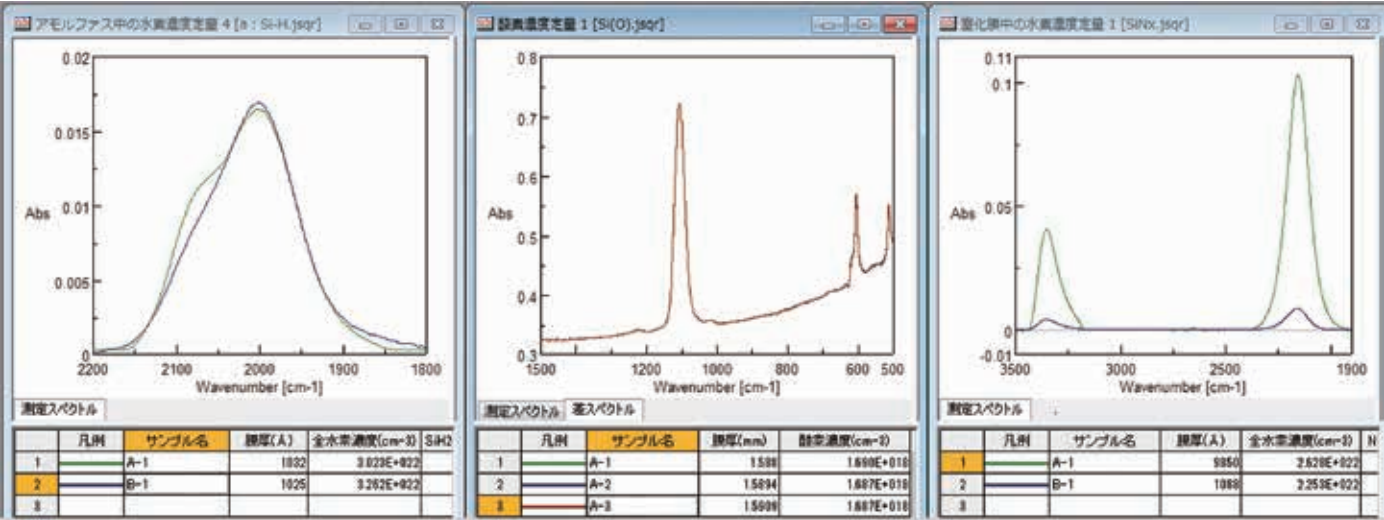


- Attachments corresponded to various sample size (option)

■ AYT12-4000 12-inch Wafer Auto Y-theta Stage

Enabled instruments	FT/IR-4000/6000 series
Method	transmission/reflection measurement (Center of incident angle: 15°)
Movable range	Y direction: 0 - 168 mm Theta direction: -180 - 180 degree
Position accuracy	Y direction: ± 0.5 mm Theta direction: ± 0.19 degree
Purge	Available
Software	Y-theta mapping measurement program

■ Concentration quantitative program in Si (option)



These programs can perform impurity quantitative analysis which correspond to the following various standards under JEITA regulation.

- Carbon concentration in Si: JEITA-EM-3503
- Oxygen concentration in Si: JEITA-61-2000
- Nitrogen concentration in Si: JEITA-EM-3512
- Hydrogen concentration in amorphous Si
- Hydrogen concentration in SiN film

* A vertical incident option for auto Y-theta stage is required.
* JEITA: Japan Electronics and Information Technology Industries Association

■ Specifications

Fourier Transform Infrared Spectrometers

Model	FT/IR-4600	FT/IR-4700	FT/IR-6600	FT/IR-6700	FT/IR-6800
Measurement range	7800 - 350 cm ⁻¹				
Maximum resolution	0.7 cm ⁻¹	0.4 cm ⁻¹	0.4 cm ⁻¹	0.25 cm ⁻¹	0.07 cm ⁻¹
S/N ratio	25000:1	35000:1	45000:1	47000:1	55000:1



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For more information, please contact :



Products described herein are designed and manufactured by ISO-certified JASCO Corporation.

MADE IN TOKYO, JAPAN