## Reflectance Spectra of Quartz with InGaAs Detector

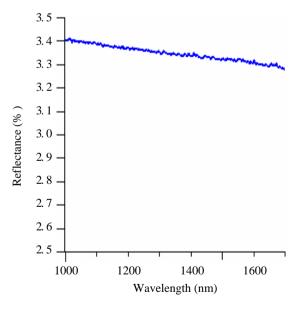
## INTRODUCTION

By using the standard system and near-infrared system of U-4100 spectrophotometer, the spectrum of a quartz wedge plate at 5° specular reflection was analyzed. By the near-infrared system equipped with InGaAs detector, the specular reflectance spectrum with small noise was obtained at the wavelengths of 1000-1700 nm. InGaAs detector allows the measurement in this wavelength range with reduced noise.

## **SAMPLE**

Sample : Quartz wedge plate

INSTRUMENT CONDITIONS				ACCESSORY
Instrument	<ul> <li>: U-4100 Spectrophotometer (solid sample analysis system)</li> <li>: U-4100 Near-infrared System (solid sample analysis system)</li> </ul>			5° specular reflectance accessory (P/N: 134-0102)
[UV/VIS]		[NIR]		
Scan speed	: 300 nm/min	Scan speed	: 150 nm/min	
Slit	: 8 nm	Slit	: auto-control	
Sampling interval	: 1 nm	PbS sensitivity	: 1	



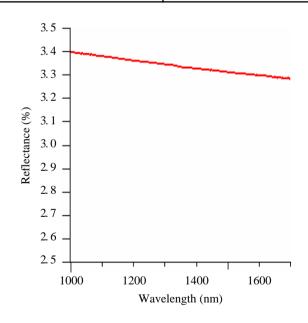


Figure 1 U-4100 Spectrophotometer (solid sample analysis system)

Figure 2 U-4100 Near-infrared System (solid sample analysis system)

5° Specular Reflectance Spectrum of Quartz Wedge Plate

## **KEY WORDS**

Quartz Wedge Plate, Reflection, 5° Specular Reflectance, Spectrophotometer, Optical Material, Evaporated Film, Quartz, Reflectance Spectrum, UV, U-4100

Spectrophotometer (UV)

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