Surface and Interface spectrometer

SIS-5100 / S-SPR6100 series

Optical Waveguide spectroscopy!

Optical Waveguide Spectrometry has…

・・・high sensitivity for trace samples.
・・・characteristic to use evanescent waves.
・・・possibility to collaborate with other methods.

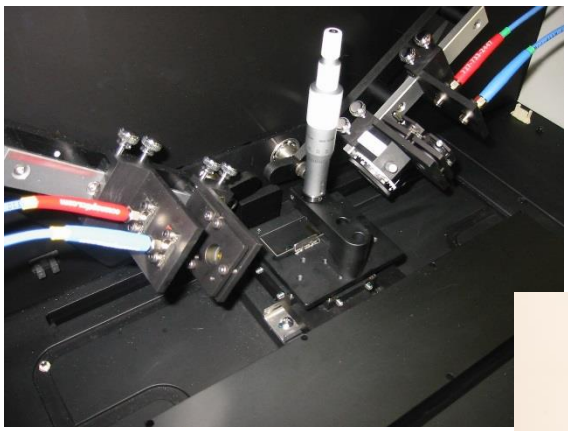

Photo.1 Sample room for analysis

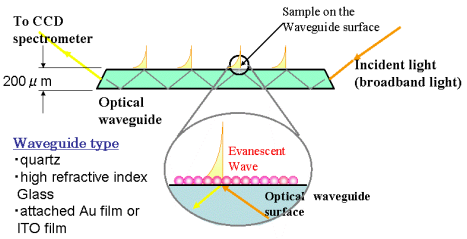

Fig.1 Image of optical waveguide spectrometry

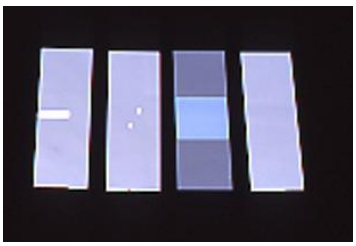

Photo.3 Optical waveguide variation

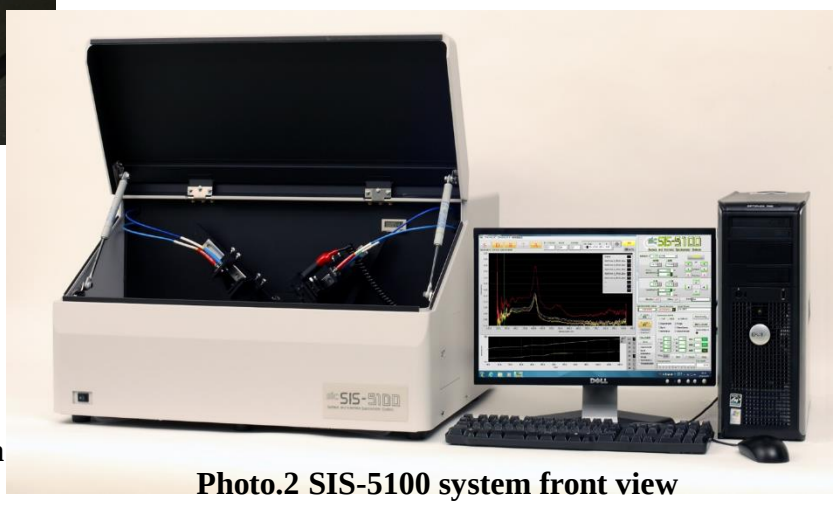

Photo.2 SIS-5100 system front view

◇Applications

- ■Real-Time analysis, Surface and Interfacial analysis
- ■Nano Technology for Organic Devises
- □Molecular domain structure analysis of Organic Electro Luminescence
- □Dye-Sensitaized Solar Cell
- □Photo-functional analysis of molecular on photo-irradiation, Photo deplete
- ■Micro Biology for sensor and function analysis
- □Affinity of bio molecular by Spectroscopic Surface Plasmon Resonance (SSPR)
- □Collaborate with Electrochemistry
- □Information of molecular orientation with Polarized Optical Waveguide Spectroscopy

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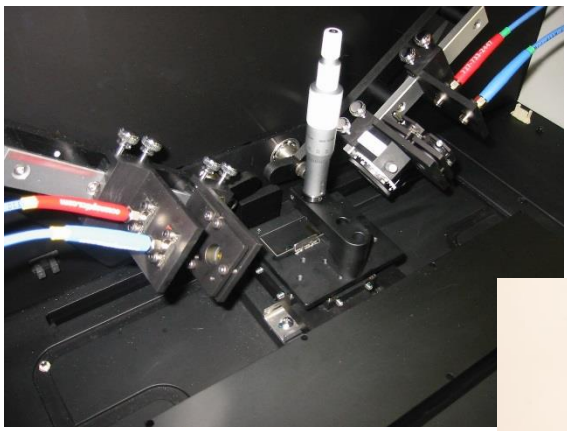

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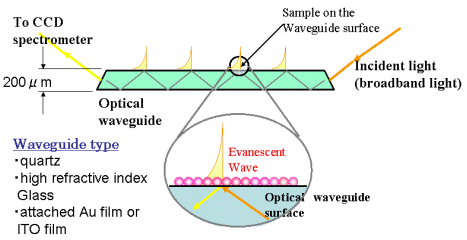

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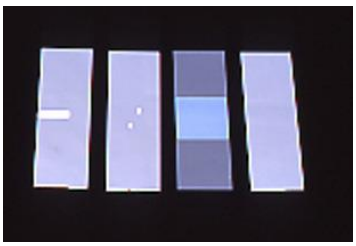
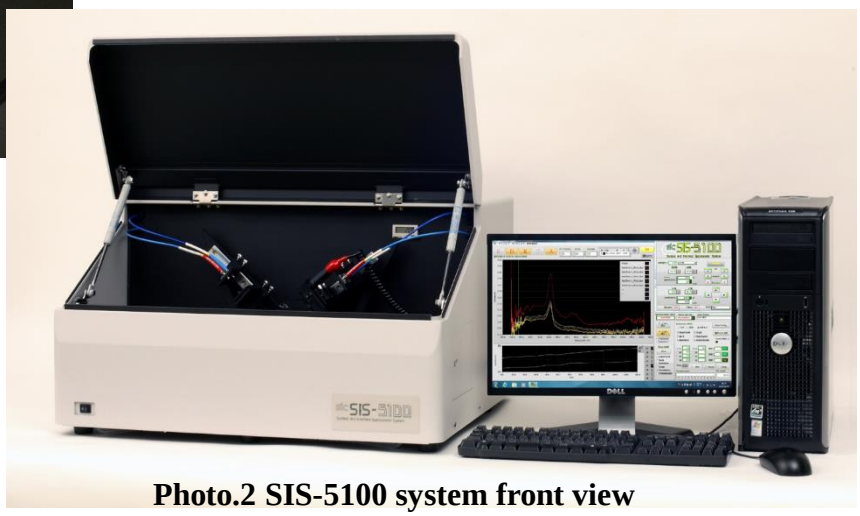


Photo.3 Optical-wave guide variation



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◇Specification

■**The main system**
Incident angle adjustment　normal to 90～35degrees(fine adjustment below 0.005)
Out put angle adjustment　normal to 90～35degrees(fine adjustment below 0.005)
Y scan adjustment　0～20mm(fine adjustment below 0.005)
■**Light source**　Xe 150W(Hamamatsu photonics KK　L2175)
■**Dimension**　620(W)×550(D)×330(H)
■**Original application software**　■**Power**　100～110V AC　0.6KVA
■**Spectrometer**　Ocean Optics inc (S4000) spectrometer CCD　3048pix , resolution 1.25nm
Wavelength　220～700nm or 400～1000nm　1 spectrometer,
220～700nm and 400～1000nm 2 spectrometers

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