

EXTEND THE POWER OF YOUR UV-VIS SPECTROPHOTOMETER

Make the most of your UV system with flexible accessories

LIQUID SAMPLES

TEMPERATURE CONTROL & ELECTROTHERMAL ACCESSORIES

Ideal for samples and methods that are affected by temperature including:

- Kinetic studies
- Enzyme assays
- DNA melting
- Microvolume temperature control

Q Typical application

- Thermochromic dyes, biological and clinical

AUTOCHANGERS

Ideal for high throughput analysis of multiple samples

- Internal sample automation
- External autosampler - for high throughput work

Q Typical application areas

- Environmental, water, food & pharmaceutical Laboratories
- Tablet dissolution
- Hazardous Samples

CELL HOLDERS

- Long pathlength cell holders - used for dilute samples to increase strength of absorbance
- Microvolume cell holders - used when sample volume is limited

Q Typical application

- Drinking water analysis
- DNA, neonatal samples & online experiments

FIBRE OPTIC PROBE

- Fibre optic dip probe and remote sampling – used for fast direct sampling

Q Typical application

- QC, reaction monitoring & online/inline experiments



LIQUID & SOLID SAMPLES

INTEGRATING SPHERE

Ideal for analysis of samples that contain particles or require surface analysis

- Light from the sample surface or scattered by particles in solution is collected within the sphere
- Sphere allows for scattered light to be reflected & collimated on to the detector
- Internal detectors for optimal sensitivity and increased wavelength range

Q Typical application

- Colour and spectral determination for clothing, films, tablets, and other materials

TRANSMISSION ACCESSORIES

Various accessories available to help measure the amount of light transmitted through a sample

- Fixed and variable angle transmission accessories
- Film holders
- Rotating film holder
- Fibre optics

Q Typical application

- Film polarization
- Driving glasses
- Car headlights
- Glass bottles

SOLID SAMPLES

The type of accessories used for solid sample analysis depends on the light scattering characteristics of the sample:

- Samples that scatter light require diffuse reflectance accessories
- Samples that do not scatter light use specular reflectance/transmission accessories

Samples that scatter light

INTEGRATING SPHERE

DIFFUSE REFLECTANCE ACCESSORIES

Collects scattered light from the sample surface

Q Typical application

- Study and measurements of catalysts
- Carbon dioxide capture
- High & low temperature analysis
- Atmosphere sensitive materials

Samples that do not scatter light

SPECULAR REFLECTANCE - VARIABLE ANGLE

Ideal when measuring the amount of light reflected at different angles from a smooth surface

Q Typical application

- Display panels, mirrors, architectural materials, packaging
- Films, security films coatings, holograms

SOFTWARE ACCESSORIES & ADD-ONS

FILM THICKNESS MEASUREMENT

Suitable for optics market, plastics industry, plastic coatings and films

COLOUR ANALYSIS SOFTWARE

Suitable for anyone requiring accurate colour characterisation, such as materials processing, food industry, paints, packaging, fabrics and many more

SOLAR APPLICATIONS AND UV BLOCKING

Suitable for solar panels research, UV protection Factor Fabrics and creams, LEDs, environmental energy conservation, electronic devices – electronic bandgaps & phosphors

ARCHITECTURAL GLASS SOFTWARE

Suitable for heat reflecting glass testing, building materials research, climate change building products

THERMAL-MELTING FOR DNA ASSAYS

Suitable for DNA investigations incl. DNA sequence, DNA triplex, DNA quaternary structure, oligonucleotides analysis



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