

CPD + SPUTTER COATER



Descriptions

Ultraviolet-visible (UV-Vis-NIR) spectroscopy is a technique used to measure **light absorbance across ultraviolet (200-400nm), visible (400-800nm) and near infrared, NIR (800-1800nm) ranges of the electromagnetic spectrum.**

When incident light strikes matter it can either be **absorbed, reflected, or transmitted.** The absorbance of radiation in the UV-Vis range causes atomic excitation, which refers to the transition of molecules from a low-energy ground state to an excited state.

In this instrument, three (3) types of sample can be analyzed, whether in **liquid, bulk or powder** form. This instrument also provided a wide wavelength range between 170 to 3600nm with 2 differences in lamp sources; xenon and halogen. This instrument can produce three (3) data types which are absorbance, transmittance and reflectance.

Further Information

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Brand-Model

LICOR

Basic Specifications

Wavelength range: 170 nm to 3600 nm

Detectors: PMT, InGaAs, cooled PbS

Measurement types:

Reflection, Diffuse Reflection, Transmittance, Absorption and Specular Reflectance

Maximum size of reflective sample:
Approx. 100 mm dia. x 15 mm thick

Equipment Website (Manufacturer)

xxx

Types of samples

Bulk / powder / liquid

Location

Plant Biotechnology Laboratory
(T02, 01-11-10)

Operator

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