

Shimadzu presents a new spectrophotometer

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Shimadzu has announced the launch of its new UV-3600 Plus UV-VIS-NIR spectrophotometer. The new spectrophotometer is equipped with three detectors - PMT (photomultiplier tube) for ultraviolet and visible regions, and InGaAs and cooled PbS detectors for the near-infrared region - to ensure high sensitivity across the entire measured wavelength range. Compared to spectrophotometers with only PMT and PbS detectors, the UV-3600 Plus significantly reduces noise level to assure high-accuracy measurements across the entire wavelength range.

The instrument's high-performance double monochromator makes it possible to attain an ultra-low stray light level (0.00005 percent max at 340 nm) with high resolution. The wide wavelength range of 185 to 3,300 nm enables measurement across the ultraviolet, visible and near-infrared regions.

The UV-3600 Plus offers high-resolution analysis in the following application areas: materials science, including photovoltaics, electronics, optical coatings, and textiles; food science; pharmaceuticals, cosmetics and lifesciences; and chemicals.

The all-in-one UVProbe software is equipped with four measurement modes to handle a wide variety of data processing needs for the UV-3600 Plus, such as peak detection and area calculations in addition to transformations such as derivative spectra and Kubelka-Munk transforms for reflectance measurements. These modes include a spectrum module, a photometric module (quantitation), a kinetics module (time course management), and a report generator. Optional software is also available for users who wish to perform measurements such as color analysis, solar transmittance, band gap, and film thickness.