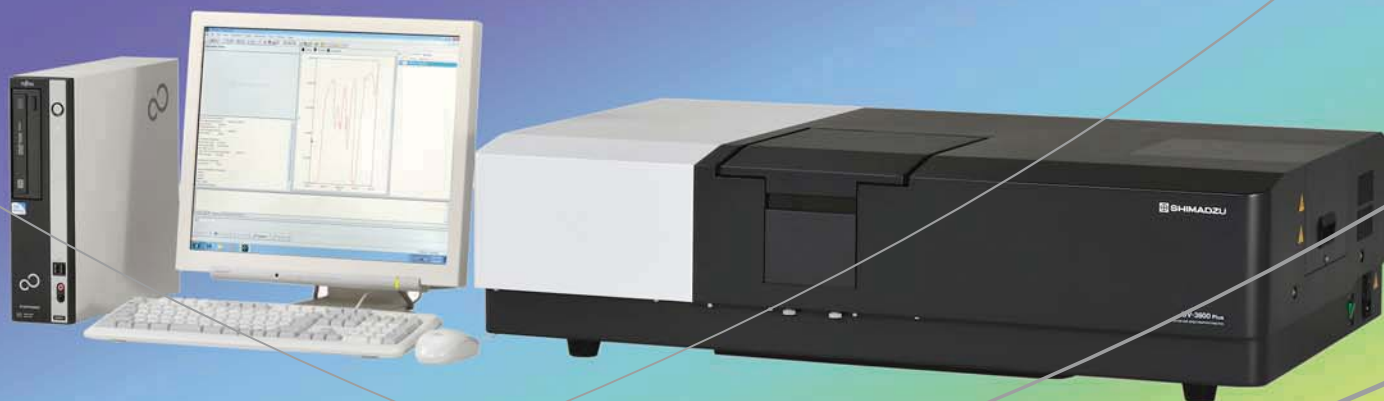


Spectrophotometer Uv-3600 Plus



Three detectors ensure high sensitivity of the device when measuring small and large, liquid and solid samples in the range from UV to near IR

The unique spectrophotometer UV-3600 Plus is designed to work in a wide spectral range and is equipped with three detectors: a PMT for operation in the ultraviolet and visible part of the spectrum, semiconductor InGaAs and cooled PbS detectors for operation in the near-IR range.

In addition to the main spectrophotometer unit, the multipurpose cuvette compartment and integrating sphere are also equipped with three detectors.

■ High resolution, low level of stray light, wide spectral range

The high-performance optics of the device enable to achieve an extremely low level of scattered light (max. 0.00005% at 340 nm) with a high resolution (maximum resolution: 0.1 nm). The wide spectral range from 185 to 3300 nm allows you to work not only in the UV and visible spectrum, but also in the near-IR range, and as a result, opens up opportunities for solving a wide range of tasks.

■ Integrating sphere ISR-603

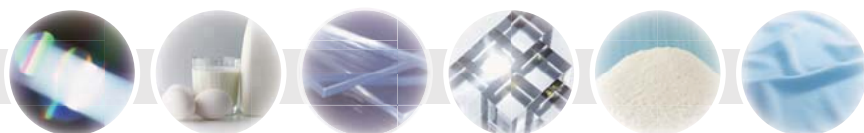
The integrating sphere with a diameter of 60 mm is intended for measuring the spectra of diffuse and specular reflection, as well as the transmission spectra of liquid and solid samples.

■ Multifunctional cuvette compartment MRS-603

The multi-purpose cuvette compartment allows you to measure samples of various shapes and obtain both reflectance and transmission spectra. In order to ensure the accuracy of measurements of solid samples, an integrating sphere with a diameter of 60 mm is built into the cuvette compartment.

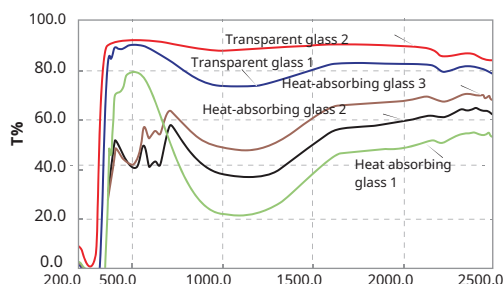


Fields of application



Production of building materials

Measurement of transmission spectra of window glass characterized by low infrared transmission coefficient and ability to retain heat.



Sample	Sunlight transmission (T%)	Transmission of visible light (F%)
Transparent glass 1	81.412	88.733
Transparent glass 2	89.612	91.339
Heat-absorbing glass 1	47.428	75.051
Heat-absorbing glass 2	44.367	43.323
Heat-absorbing glass 3	52.023	50.029

Electronics and optics

Analysis of the properties of mirrors, semiconductor materials, solar batteries; obtaining spectral characteristics of LEDs, polarizing films and coatings, etc.

Food industry

Determination of vitamins, food additives; quantitative determination of phenol in packaging, etc.

Textile industry

Measurement of diffuse reflectance spectra of various fabrics and fibers, use of software for measurement colors

Cosmetics and pharmaceuticals

Measurement of various amino acids, quantitative determination of proteins and nucleic acids, analysis of pharmaceutical components in the near-IR range, and more.

Technical characteristics

Optical scheme	Dual beam, dual monochromator
Spectral range	185-3300 nm
Detectors	UV/visible: PMT Near IR: InGaAs/cooled PBS
The width of the gap	UV/visible: 8 steps; 0.1 to 8 nm Near IR: 10 steps; 0.2 to 32 nm
Extension	0.1 nm
Noise level	0.00005 Abs or lower (500 nm); 0.00008 Abs or lower (900 nm); 0.00003 Abs or lower (1500 nm)
The level of scattered radiation	0.00008% (220 nm, NaI); 0.00005% (340 nm, NaNO ₂); 0.0005% (1420 nm, H ₂ O); 0.005% (2365 nm, CHCl ₃)
Photometric range	from -6 to +6 Abs
Photometric accuracy	± 0.003 Abs (at 1 Abs); ± 0.002 Abs (at 0.5 Abs)
Size of the cuvette compartment	150*260*140 mm



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