



SPECTROPHOTOMETERS FOR WORKING IN THE UV, VISIBLE AND NEAR-IR SPECTRUM RANGE UV-2600 / UV-2700

● Research-grade instruments for solving scientific and applied problems. Spectral range of 185-900 nm with the possibility of expansion to 1400 nm (for UV 2600 with the optional integrating sphere ISR 2600Plus). Variable slit width of 0.1; 0.2; 0.5; 1; 2 and 5 nm. The UV 2700 model has a double monochromator, which additionally reduces the level of scattered radiation to 0.00002 – 0.00005%. Photometric range from – 5 to 5 Abs for UV 2600 and from – 8.5 to 8.5 Abs for UV 2700.

● The extension of the measurement range to 8.5 Abs (0.000001% Transmission) allows you to analyze concentrated samples with the highest accuracy.

● For the UV 2600: The spectral range can be extended to 1400 nm using the optional ISR 2600Plus integrating sphere with two detectors. In addition, the UV 2600 achieves a significant reduction in noise compared to the previous model UV 2450.

● Control of devices and data processing — with the help of a personal computer. Software UVProbe (there is a Russified version) allows to work in the following modes:

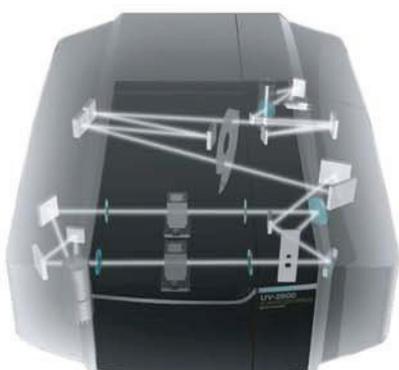
- *spectral*;
- *photometric (quantitative)*;
- *kinetic*;
- *performing spectrophotometer validation*

● The design of the sample compartment allows for the installation of various additional attachments, including the new ISR 2600 (with one detector) and ISR 2600Plus integrating spheres, an additional MPC 2600 sample compartment for large samples, a cuvette for powder samples and a rotating film holder.

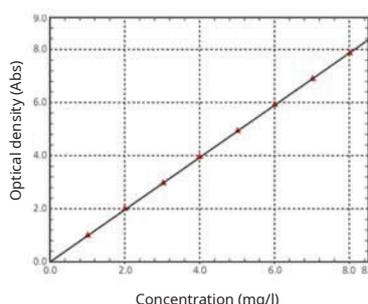
● Possibility of installing an additional low pressure mercury lamp to confirm the accuracy of wavelength setting.

● Compact design (installation space reduced by 28% compared to the previous model).

Optical scheme UV 2700

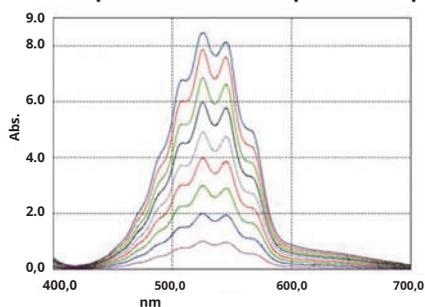


Calibration curve

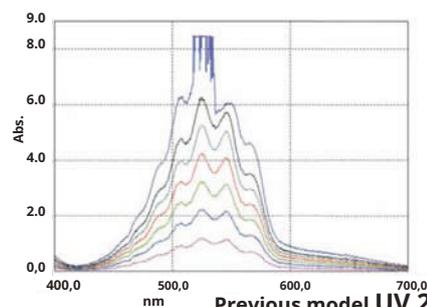


The graph illustrates the linear dependence of the optical density on the concentration of an aqueous solution of potassium permanganate in the range up to 8 Abs. on the concentration of an aqueous solution of potassium permanganate in the range up to 8 Abs.

Spectrum of an aqueous solution of potassium permanganate



UV 2700



Previous model UV 2550

Compared to the previous model, the UV 2700 enables even more accurate measurement of high optical density values.

TECHNICAL SPECIFICATIONS

Optical scheme	Double beam
Monochromator	UV 2600: single (Turner Black); UV 2700: Double (Czerny Turner monochromator and Littrow pre-monochromator)
Spectral range	UV 2600: 185–1400 nm (with integrating sphere) 185–900 nm (without integrating sphere) UV 2700: 185–900 nm
Slit width	0.1; 0.2; 0.5; 1; 2 and 5 nm
Scanning speed	from 4000 to 0.5 nm/min
Wavelength setting speed	up to 14000 nm/min
Detector	Photomultiplier R 928 and additional semiconductor detectors in integrating spheres
Wavelength scale error	±0.1 nm at 656.1 nm (D2); ±0.3 nm in the rest of the range
Reproducibility on the wavelength scale	± 0.05 nm
Scattered radiation level	UV 2600: ≤ 0.005% (220, 340 and 370 nm) UV 2700: ≤ 0.00002% (340 and 370 nm); ≤0.00005% (220nm)
Photometric quantities	Absorption (Abs), Transmission (%T), Reflectance (%), Energy (E)
Photometric range	from - 5 to +5 Abs (UV 2600); - 8.5 to +8.5 Abs (UV 2700)
Photometric accuracy	± 0.002 Abs (at 0.5 Abs); ± 0.003 Abs (at 1 Abs); ± 0.006 Abs (at 2 Abs); ±0.3%T
Photometric reproducibility	±0.001 Abs (0.5 Abs); ±0.001 Abs (1 Abs); ±0.1%T
Zero line drift	≤ 0.0002 Abs/hour (UV 2600); ≤0.0003 Abs/hour (UV 2700)
Dimensions of the device	450*600*250 mm
Weight	23 kg



WWW.SHIMADZU.COM • WWW.SHIMADZU.EU • WWW.SHIMADZU.COM.UA

«ShimUkraine» LLC - General distributor of analytical equipment

SHIMADZU in Ukraine and the Republic of Moldova

Address: Dmytra Doroshenko street, 18, office 429, Kyiv, 01042, Ukraine

Phone/fax: (044) 284-24-85; 284-54-97; 390-00-23

E-mail: shimukraine@gmail.com

Internet: www.shimadzu.com.ua

www.shimadzu.eu

www.shimadzu.com