







# Shimadzu Spectrophotometer Series

Model	Appearance	Measurement wavelength range (nm)	Bandwidth (nm)	Detector	Monochromator	Wavelength accuracy	Features (functions)
<b>UV-1280</b> Graphic LCD		190 to 1100	5	Silicon photo diode	Aberration-corrected concave blazed holographic grating	±1 nm	<p><b>Comprehensive Measurement Functions in a Compact Body</b>  <b>Transfer Data via USB Flash Drive to a PC!</b>  <b>UV-VIS Analyses Covered Using a Single Unit</b></p> <ul style="list-style-type: none"> <li>-An easy-to-see LCD and buttons enables simplified measurement and instrument validation operations.</li> <li>-Equipped with a full range of programs for ultraviolet-visible spectroscopic analysis such as photometric measurement, DNA/protein quantitation, and advanced multi-component quantitation.</li> <li>-Accommodates a variety of applications utilizing a wealth of accessories compatible with other instruments in the Shimadzu UV series.</li> <li>-Save data directly from the unit to a USB flash drive. Data can be displayed using commercially available spreadsheet software.</li> <li>-Combined monitor double-beam system for the D<sub>2</sub>WI lamps enables highly stable analyses in a compact unit.</li> </ul>
<b>BioSpec-nano</b> For Quantitation of Nucleic Acids and Proteins PC Control		220 to 800	3	Photo diode array			
<b>UV-1800</b> Graphical LCD (PC controllable)		190 to 1100	1	Silicon photo diode	Aberration correction Czerny-Turner mounting (uses high-performance blazed holographic grating)	±0.3 nm (for entire range) 0.1 nm (656.1 nm D2)	<p><b>Double-beam spectrophotometer offering high functionality, minimal space requirement, and affordable price</b></p> <ul style="list-style-type: none"> <li>-Measured spectra, quantitation values, and other data can be saved in USB memory, which can be installed in a computer, where it can be displayed or saved using dedicated UVProbe software or commercial spreadsheet software.</li> <li>-A hardware validation function is included standard, which enables inspecting 9 parameters, such as wavelength accuracy, wavelength reproducibility, and photometric accuracy.</li> <li>-The compact and light weight design only requires 450 W x 490 D mm of space and weighs only 15 kg, which allows it to be lifted by one person.</li> <li>-Supports IQ/OQ</li> <li>-Access to functionality can be restricted by password or user levels.</li> </ul>
<b>UV-2600</b> Single Monochromator  <b>UV-2700</b> Double Monochromator PC Controllable	 UV-2700	185 to 900  (UV-2600 is capable of measuring a range from 220 nm to 1400 nm, with an additional accessory)	0.1 0.2 0.5 1.0 2.0 5.0 2.0L 5.0L (8-level)	Side-on photomultiplier R928	UV-2600 Czerny-Turner mounting Single monochromator With low stray light (Lo-Ray-Ligh grade) diffraction grating  UV-2700 Littrow mounting, Czerny-Turner mounting Double monochromator With low stray light (Lo-Ray-Ligh grade) diffraction grating	±0.3 nm (for entire range)  ±0.1 nm (656.1 nm D2)	<p><b>High precision spectrophotometer capable of measuring reflectance, transmittance, and so on, for a wide variety of samples - not only liquids, but also solid samples.</b></p> <p>UV-2600: Single-monochromator model with only 0.005 % stray light and equipped standard with double beam optics to provide high cost performance UV-2700: Ultra-low stray light (0.00002 %) double - monochromator model with double low stray light diffraction gratings</p> <ul style="list-style-type: none"> <li>-Both spectrophotometer models offer high cost performance and can be used for a wide variety of analyses, including organic and inorganic compounds, biological samples such as DNA and enzymes, measuring optical material characteristics, and so on.</li> <li>-Though the exterior is compact - only 450 mm wide, 600 mm deep, and 230 mm tall, it offers a large sample compartment able to easily accommodate a wide range of sample shapes.</li> <li>-Attaching an optional integrating sphere extends the UV-2600 wavelength measurement range to include the near infrared region, from 220 nm to 1400 nm.</li> <li>-The UV-2700 is able to measure high absorbance levels as high as 8 Abs, which means it can measure highly concentrated samples or low transmittance levels in films or other samples with low transmittance characteristics.</li> <li>-The UVProbe software runs in Windows 7 or Vista and offers extensive functionality to assist with measurements, such as multitasking and report functions.</li> </ul>
<b>UV-3600 Plus</b> Double Monochromator PC Control		185 to 3300	UV-VIS range 0.1 to 8 (8-level switch-over)	Equivalent to R928 photoelectron multiplier (UV-VIS range)  InGaAs photo diode Cooled PbS photoconductive element (Near infrared range)	Double-blazed grating, double monochromator Pre-monochromator: Concave diffraction grating Main monochromator: Aberration correcting Czerny-Turner mounting	±0.2 nm (UV-VIS range)  ±0.8 nm (Near infrared range)	<p><b>Double-monochromator spectrophotometer based on advanced technology, offering high sensitivity, high resolution, and ultra low stray light</b></p> <ul style="list-style-type: none"> <li>-Equipped with 3 types of detectors, it uses a photoelectron multiplier for the UV-VIS range and uses InGaAs and cooled PbS detectors for the near infrared range.</li> <li>-Offers the world's lowest noise levels, with a maximum 0.00003 A noise at 1500 nm (RMS value for 2 nm slit width).</li> <li>-High performance double monochromator provides high resolution (maximum 0.1 nm resolution) and low stray light (maximum 0.00005 % at 340 nm).</li> <li>-Broad measurement range from 185 nm to 3300 nm enables measurements over a wide range, from ultraviolet and visible, to near infrared.</li> <li>-A generous assortment of accessories enables accommodating a wide range of applications.</li> </ul>
<b>SolidSpec-3700</b> <b>SolidSpec-3700 DUV</b> Double Monochromator PC Control		<b>SolidSpec-3700DUV</b> 175 to 2600 (165 to 3300 with optional parts)	Near infrared range 0.2 to 32 (10-level switch-over)	Equivalent to R928 photoelectron multiplier (R-965 for DUV model) (UV-VIS range)  InGaAs photo diode Cooled PbS photoconductive element (Near infrared range)	Main monochromator: Aberration correcting Czerny-Turner mounting	±0.8 nm (Near infrared range)	<p><b>Double-monochromator spectrophotometer that is especially well suited to measuring solid samples</b></p> <ul style="list-style-type: none"> <li>-World's first UV-VIS-NIR spectrophotometer equipped with 3 types of detectors, using a photoelectron multiplier for the UV-VIS range and using InGaAs and cooled PbS detectors for the near infrared range.</li> <li>-A novel 3D optical system (patent pending) and extra large sample compartment for nondestructive measurements enables measuring large samples up to 700 mm x 560 mm.</li> <li>-Installing an optional automatic X-Y stage allows automatically moving and measuring samples at multiple points according to a prespecified mode.</li> </ul>