

## Technical Specifications

<b>Light sources</b>	<p>Deuterium lamp, usable continuum 190 – 450 nm</p> <p>Halogen-tungsten lamp, usable continuum 350 – 900 nm</p> <p>High-pressure mercury lamp, spectral lines (248, 254, 265, 280, 297, 302, 313, 366, 405, 436, 546, 577, 579 nm)</p> <p>The lamp, which is positioned in the light path, is automatically ignited. All lamps are current stabilized.</p>
<b>Pilot Lamp and compartment illumination</b>	<p>The slit is automatically illuminated with visible light when the compartment illumination is switched on. The scanning compartment is illuminated with a 4 W tube emitting UV 254 nm which the user can replace by a UV 366 nm or a white light tube.</p>
<b>Monochromator</b>	<p>Concave holographic grating, 1200 lines/mm, bandwidth selectable 5 or 20 nm, wavelength range 190–900 nm; monochromator driven by step motor, reproducibility of wavelength setting better than 0.2 nm, accuracy better than 1 nm; connector for flushing with nitrogen. Maximum speed of spectra recording 100 nm/s.</p>
<b>Secondary filter</b>	<p>Motor-driven filter wheel with three automatically selected filters for the elimination of second order wavelengths; 400 nm cut-off filter for fluorescence measurements; three positions for user selected filters.</p>
<b>Scanning slit</b>	<p>Revolving disk with 20 fixed apertures; length of slit images selectable between 0.2 and 12 mm, width between 0.1 and 1.2 mm in 42 combinations</p>
<b>Detector</b>	<p>Two matched broadband photo multipliers, multi alkali type, spectral sensitivity 185 – 900 nm</p>
<b>Stage Drive</b>	<p>Independent in both directions by step motors, micro step driven for smooth movement; reproducibility of positioning better than 50 µm in Y-direction, better than 100 µm in X-direction; maximum scanning speed 100 mm/s</p>
<b>Power connection</b>	<p><i>115 V and 230 V selectable; 50/60 Hz; maximum energy use 180 W (tungsten and mercury lamp ignited)</i></p>
<b>A/D Converter</b>	<p>16 bit, 2-channel A/D converter, 100ms per double conversion</p>
<b>Conenctions</b>	<p>RS-232 serial port</p>
<b>Dimensions (WxDxH)</b>	<p>590 x 650 x 367mm</p>
<b>Weight</b>	<p>39kg</p>