

C Technical specifications

Operating data

<i>Wavelength range</i>	190–700 nm in steps of 1 nm, 3 wavelengths simultaneously
<i>Bandwidth</i>	4 nm
<i>Wavelength accuracy</i>	±2 nm
<i>Wavelength reproducibility</i>	±0.01 nm
<i>Wavelength switch time</i>	< 500 ms (one cycle from 214 nm to 254 nm and back to 214 nm)
<i>Linearity</i>	< 2% deviation up to 2 AU at 260 nm with Uracil at pH 2
<i>Noise (specified for 10 mm flow cell)^{1, 2}</i>	
<i>Single wavelength</i>	
<i>short term (0.5–1 min)</i>	< 6×10 ⁻⁵ AU at 230 nm
<i>long term (1–10 min)</i>	< 6×10 ⁻⁵ AU at 230 nm
<i>Dual wavelengths</i>	
<i>short term (0.5–1 min)</i>	< 2×10 ⁻⁴ AU at 230 and 254 nm
<i>long term (1–10 min)</i>	< 2×10 ⁻⁴ AU at 230 and 254 nm
<i>Drift²</i>	< 2×10 ⁻⁴ AU/h at 254 nm
<i>Environment</i>	+4 to +40 °C 20–95% relative humidity 84–106 kPa (840–1060 mbar) atmospheric pressure

¹ Measured with water at 1 ml/min, time constant 1 s.

² Typical values at room temperature after warm-up.

Flow cell

<i>Max. flow rate</i>	100 ml/min
<i>Max. pressure</i>	2 MPa (20 bar, 290 psi)
<i>Backpressure</i>	Max. 0.5 bar at 2 ml/min with water at 25 °C
<i>Liquid temperature range</i>	+4 to +40 °C
<i>Optical path length</i>	
<i>2 mm cell</i>	2 mm
<i>10 mm cell</i>	10 mm
<i>Cell volume</i>	
<i>2 mm cell</i>	2 µl
<i>10 mm cell</i>	8 µl
<i>Degree of protection</i>	IP 21
<i>Wetted materials</i>	PTFE (polytetrafluoroethylene) PEEK (polyetheretherketone) Titanium (palladium alloy) Quartz (synthetic fused silica)
<i>pH stability range</i>	1–13, 1–14 (<1 days exposure)

<i>Chemical resistance</i>	The wetted parts are resistant to organic solvents and salt buffers commonly used in chromatography of biomolecules, except 100% Ethyl acetate, 100% Hexane, and 100% Tetrahydrofuran (THF)
<i>Tubing connections</i>	UNF 10-32 "fingertights" for capillary tubing with 1/16" outer diameter
Physical data	
<i>Light source</i>	Xenon flash lamp
<i>Lamp lifetime</i>	> 4000 hours
<i>Control</i>	Stand alone or from a computer running UNICORN 3.21 or higher through UniNet-1 connection
<i>Power consumption</i>	65 VA
<i>Power requirement</i>	100–240 V AC, 50–60 Hz
<i>Analogue output</i>	3 signals, 0–1 V full scale, overrange function
<i>Digital inputs</i>	5 V, 1 mA current sinking, lamp on/off, autozero, event mark
<i>Display</i>	2 rows with 20 characters each
<i>Dimensions (H xW xD)</i>	200 x 260 x 370 mm
<i>Weight</i>	8.5 kg
<i>Degree of protection</i>	IP 20
<i>Compliance with standards</i>	The declaration of conformity is valid for the instrument only if it is: <ul style="list-style-type: none"> • used in laboratory locations • used in the same state as it was delivered from GE Healthcare except for alterations described in the User Manual • connected to other CE labelled GE Healthcare modules or other products as recommended.
<i>Safety Standards</i>	This product meets the requirement of the Low Voltage Directive (LVD) 73/23/EEC through the following harmonized standards: <ul style="list-style-type: none"> • EN61010-1 • IEC 61010-1 • CAN/CSA-C22.2 No. 61010-1 • UL61010-1