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Find the *Gilson 112* at our website: ***Click HERE***

112 UV Detector





Fixed-Wavelength UV Detector

Feature	Benefit
Wavelengths available: 254 nm or 280 nm	Allow detection of a wide range of compounds that absorb in the UV range
Wide range of flow cells	Allows for analysis at microbore, analytical, semi-prep and preparative flows
Easy-to-change lamp and filter assemblies	Minimize downtime during wavelength changeover or lamp replacement
Dual-beam, filter-based optics	Ensure equal illumination of both the sample cell and the reference aperture to maintain baseline stability at high sensitivity
One-step baseline and event-marking functions	Automatically zero the baseline and mark chromatographic events for viewing—with the push of a button

Applications

- Analytical HPLC
- Preparative HPLC
- Drug discovery
- Drug metabolism
- Protein and peptide separations

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Technical Specifications

Flow Cells	<table><tr><th>Flow Cell</th><th>Path (mm)</th><th>Volume (µL)</th><th>psi</th></tr><tr><td>HPLC</td><td>10.0</td><td>11.0</td><td>1000</td></tr><tr><td>LC</td><td>10.0</td><td>40.0</td><td>1000</td></tr><tr><td>Microbore</td><td>5.0</td><td>1.3</td><td>1000</td></tr><tr><td>Preparative</td><td>2.0</td><td>10.0</td><td>1000</td></tr><tr><td>Preparative</td><td>0.5</td><td>2.5</td><td>1000</td></tr><tr><td>Preparative</td><td>0.1</td><td>0.3</td><td>1000</td></tr></table>
Flow Cell Sensitivity	<4 x 10^{-4} AU for flow step of 0.5–2 mL/min with methanol
Sensitivity Range	0.0001 to 1.0 AU with standard flow cell installed. Up to 100 AU when 0.1 mm flow cell is used. Selectable on front panel.
Detector Type	UV silicon photodiode
Monochromator	Dual beam with interference filter, to monitor at a single wavelength Range: 254 and 280 nm standard (selectable on front panel) Spectral bandwidth: 0.2 nm at 254 nm, 12 nm at 280 nm
Autozero Range	–0.5 to + 1 AU, to within 5 x 10^{-5} AU; front panel or remote activation
Drift	3 x 10^{-4} AU/hr
Event Marker	Negative deflection on trace; front panel or remote activation
Noise	254 nm, short term, peak-to-peak, 4 x 10^{-5} AU/cm; long term, peak-to-peak, 6 x 10^{-5} AU 280 nm, short term, peak-to-peak, 6 x 10^{-5} AU/cm; long term, peak-to-peak, 6 x 10^{-5} AU
Reference Chamber	Air
Temperature Sensitivity	3.0 x 10^{-4}/°C for temperature change from 21° to 24°C
Lamps	Standard: Mercury (254 nm), life of 2000 hours; Phosphor-coated Mercury (280 nm), life of 500 hours
Time Constant	0.1, 0.2, 0.5, 1, 2 or 5 seconds; selectable on front panel
Communication Interface	Event and autozero inputs; three channels output data to a recorder
Display Panel	LCD indicator shows percent of full-scale output
Power Requirements	Frequency: 50–60 Hz Voltage: 100–120 or 220–240V; mains voltage fluctuations not to exceed ±10% of the nominal voltage Current rating: 1.0A for 100–120V, or 0.5A for 220–240V
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Dimensions (w x d x h)	32 x 32 x 13 cm (12.6 x 12.6 x 5.2 in.)
Instrument Weight	7 kg (16 lbs.)
Shipping Weight	10 kg (23 lbs.)

For applications or additional information, contact your local Gilson Technical Sales Representative or visit www.gilson.com.

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