

ACQUITY UPLC PDA e λ Detector

The Waters® ACQUITY UPLC® PDA e λ Detector is specifically designed to compliment the ACQUITY UPLC® Core system. The newly updated detector has data rates up to 80 Hz, noise specifications of $\pm 3 \mu\text{AU}$, and sensitivity that is unmatched by any other photodiode array detector on the market. Further, enhanced software control provides flexibility for simultaneous 2D and 3D operation in Empower™ or MassLynx™ software.



OPERATING SPECIFICATIONS

Wavelength range 1	190 to 800 nm
Light source	Prealigned, intelligent technology Deuterium lamp
Wavelength accuracy	± 1 nm
Linearity range	Deviation at 2.0 AU \leq 5%, propylparaben, at 257 nm
Optical resolution	1.2 nm
Digital resolution	1.2 nm/pixel
Baseline noise	$\pm 3 \mu\text{AU}$, 230 nm, 2 Hz, 2 s, wavelength compensation 310 to 410, WET (2D channel)
Drift	$\leq 1.0 \times 10^{-3} \text{AU}/\text{hour}/^\circ\text{C}$
Flow cell design	Light-guiding UPLC intelligent technology flow cell
Pathlength	10 mm (analytical cell)
Cell volume	500 nL (analytical cell)
Wetted materials	316 stainless steel, fused silica, Teflon AF, PEEK
Data acquisition	Up to 80 Hz
Pressure limit	1000 psi
Unattended operation	Leak sensors, full diagnostic data captured through console software

PHYSICAL/ENVIRONMENTAL SPECIFICATIONS

Dimensions	Width:	34.3 cm (13.5 inches)
	Height:	19.4 cm (7.6 inches)
	Depth:	60.7 cm (23.9 inches)
Weight	13.6 kg (30 pounds)	
Operating temperature	4 to 40 °C (39 to 104 °F)	
Operating humidity	20% to < 95% RH non-condensing	
Warranty	2000 hour lamp, 1 year	
Compliance	CE Mark CSA C-tick and UL	

ELECTRICAL SPECIFICATIONS

Power requirements	100 to 240 VAC
Line frequency	50 to 60 Hz
Power consumption	185 VA (nominal)

ORDERING INFORMATION

PART NUMBER

ACQUITY UPLC Photodiode Array Detector (flow cell included)	176015030
Optional flow cells:	
Analytical – 500 nL, 10 mm pathlength	205015017
High sensitivity – 2400 nL, 25 mm pathlength	205015019
High throughput – 135 nL, 3 mm pathlength	205015006
Stainless steel – 1500 nL, 5 mm pathlength	205000612
Titanium – 1500 nL, 5 mm pathlength	205000613

Waters

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