

FastTrack™ UV/VIS Spectroscopy

Designed for Life Sciences

UV/VIS Excellence



Accurate micro-volume measurements

The UV5Nano only requires 1 μL of sample for reliable measurements. The pure sample is pipetted on the measuring surface and the arm is automatically locked to a precisely defined pathlength. Measurement accuracy is ensured and errors are avoided as the sample does not need to be diluted.



Measure wide concentration ranges fast

The UV5Nano automatically measures at two precisely defined pathlengths allowing a wide concentration range to be covered. Samples of dsDNA with concentrations of 6 $\text{ng}/\mu\text{L}$ to 15,000 $\text{ng}/\mu\text{L}$ can be measured without further dilutions within 2 seconds per pathlength.



Powerful compactness

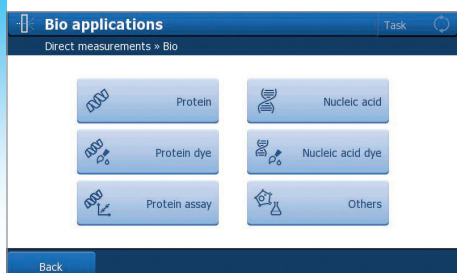
The UV5 performs spectrum scans within one second. No warm-up time is required, just select your measurement and begin. The cuvette changer optimizes spectroscopic workflows without increasing the overall foot print.



UV/VIS Excellence Line for Life Sciences

UV/VIS Excellence Instruments optimize spectroscopic workflows in life sciences – FastTrack™ technology enables speedy and reliable measurements, with One Click™ touchscreen operation becomes intuitive and efficient and LockPath™ technology ensures accurate micro-volume measurements. The UV5Bio provides standard cuvette measurements while UV5Nano combines micro-volume and cuvette measurements. Both are specialized for Life Sciences applications thanks to:

- Accurate micro-volume measurements
- Wide concentration measuring range
- Powerful & compact
- Direct Bio measurements and specific methods



Direct Bio measurements and methods

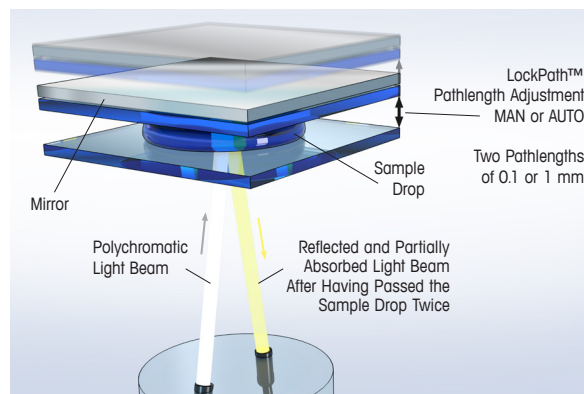
Bio UV/VIS applications can be started simply as direct measurements. Pre-verified METTLER TOLEDO Bio methods can be used for instant analyses or adapted with the intuitive editor to meet specific automation workflows. Both direct measurements and dedicated methods can be started by One Click™ shortcuts.

LockPath™ Technology

Reliable Micro-Volume Measurement

Avoid errors, secure accuracy


- Measure directly on the integrated optical cell thanks to ingenious light deflection off the mirror in the arm.
- Repeatable and exact automatic pathlength adjustment at 0.1 and 1 mm
- Exclusion of pathlength drift thanks to the rugged, patented design – expensive recalibration and downtime are excluded
- Secure locking of the arm during the measurement at the selected pathlength
- No drying out of sample during measurement for increased repeatability
- Convenient sample pipetting supported by the 90 degree arm position



LockPath technology
Lock the pathlength and secure your measurement

Feature and technical comparison UV5Bio/UV5Nano Excellence Line

		UV5	UV5Bio	UV5Nano
FastTrack™ technology	Pulsed Xenon flash lamp, CCD array detector	•	•	•
LockPath™ technology	Automatic pathlength adjustment for micro-volume measurement			•
Optical performance	Wavelength range [nm]	190–1100	190–1100	190–1100
	Resolution (toluene in hexane abs.)	> 1.5	> 1.5	> 1.7
	Wavelength accuracy (holmium oxide) [nm]	± 1.0	± 1.0	± 1.0
	Photometric accuracy (potassium dichromate) [A]	± 0.01	± 0.01	± 0.01
	Stray light at 198 nm (potassium chloride) [A]	> 2	> 2	> 1.7
	Minimal scan time full range [s]	1	1	1
One Click™ UV/VIS spectroscopy	Shortcuts per user	12	12	12
Automation	Peristaltic pump FillPalMini	•	•	•
	CuvetteChanger	•	•	
	CertiRef™ automatic performance verification	•	•	
Applications & Methods	Direct measurements	•	•	•
	Pre-defined METTLER TOLEDO methods	-	> 12	> 12
	Method editor	•	•	•
	Max. number of methods	20	50	50
Results	Number of results stored in instrument	20	50	50
	Result storage on USB stick	•	•	•
	Result transfer via Ethernet to remote PC	•	•	•
PC software	LabX® UV/VIS software	•	•	•
Languages	English / German / French / Spanish / Italian / Chinese / Russian / Portuguese			
Connectivity	USB memory stick storage of results at terminal	•	•	•
	USB devices (bar code reader, printer)	•	•	•
	Ethernet (PC, network printer)	•	•	•
Terminal	7" QVGA Color TFT 800 x 400 touch sensitive screen	•	•	•
Instrument dimensions	Width x depth x height (without terminal) [mm]	208 x 255 x 228		208 x 255 x 217
	Weight incl. terminal [kg]	6.4		7.2
VWR Part No.		10811-200	10811-202	10811-204



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