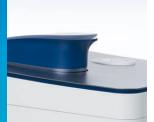
UV/VIS Excellence

FastTrack[™] UV/VIS Spectroscopy Designed for Life Sciences





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 ng/ μ L to 15.000 ng/ μ L can be measured without further dilutions within 2 seconds per pathlength.

Powerful compactness

Martin Proto

The UV5Nano combines two instruments in one for microvolume and cuvette based measurements. In the UV5Bio cuvette holders and CuvetteChanger are positioned in the easily accessible open sample area. Both instruments fit a Notepad footprint.



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.



UV5Bio and UV5Nano UV/VIS Spectrophotometers

UV/VIS Excellence Line for Life Sciences

The UV5Bio and UV5Nano 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 compactness
- Direct Bio measurements and specific methods

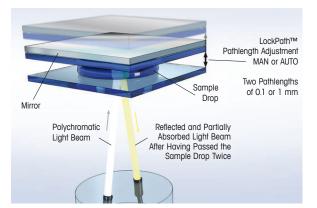


LockPath[™] Technology

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

		UV5Bio	UV5Nano
FastTrack [™] technology	Pulsed Xenon flash lamp, CCD array detector	٠	•
LockPath [™] technology	Automatic pathlength adjustment for micro-volume measurement		•
Optical performance	Wavelength range [nm]	190-1100	190-1100
	Resolution (toluene in hexane abs.)	> 1.5	> 1.7
	Wavelength accuracy (holmium oxide) [nm]	± 1.0	± 1.0
	Photometric accuracy (potassium dichromate) [A]	± 0.01	± 0.01
	Stray light at 198 nm (potassium chloride) [A]	> 2	> 1.7
	Minimal scan time full range [s]	1	1
One Click [™] UV/VIS spectroscopy	Shortcuts per user	12	12
Automation	Peristaltic pump FillPalMini	•	•
	CuvetteChanger	٠	
	CertiRef [™] automatic performance verification	•	
Applications & Methods	Direct measurements	•	•
	Pre-defined METTLER TOLEDO methods	> 12	> 12
	Method editor	٠	•
	Max. number of methods	50	50
Results	Number of results stored in instrument	50	50
	Result storage on USB stick	٠	•
	Result transfer via Ethernet to remote PC	•	•
PC software	LabX [®] UV/VIS software	٠	•
Languages	English/German/French/Spanish/Italian/Chinese/Russian/Portuguese	٠	•
Connectivity	USB memory stick storage of results at terminal	•	•
	USB devices (bar code reader, printer)	٠	•
	Ethernet (PC, network printer)	•	•
Terminal	7" QVGA Color TFT 800 x 400 resolution touch sensitive screen	٠	•
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



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For more information

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