

FastTrack™ UV/VIS Spectroscopy Speed Up Your Measurements



UV5 – simple and fast

Spectrum scans within one second, instant instrument readiness, pre-defined direct measurement application types and intuitive One Click touchscreen operation speed up UV/VIS measurement workflows in quality control.



UV7 – excellent performance

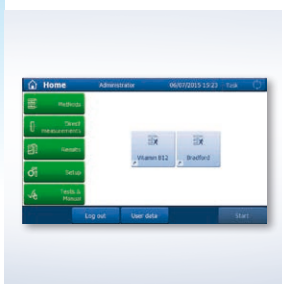
Superior optical performance is strictly tested according to Ph.Eur. and USP Pharmacopeia; advanced automation routines and pre-verified METTLER TOLEDO methods are ideal conditions for reliable measurements in regulated industries.

► www.mt.com/UV-VIS-Pharmacopeia



Compact Modularity

The instrument has an optimized and neat footprint without compromising convenient cuvette handling; cuvette holders and CuvetteChanger are easily accessible in an open sample area and the FillPaMini pump can be secured on either the left or right of the housing.



Direct measurements and methods

Typical UV/VIS applications can be started simply as direct measurements. Pre-verified, industry-specific METTLER TOLEDO 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.



Automation and accessories

- Peristaltic pump FillPaMini
- CuvetteChanger
- InMotion Sample Changer
- CertiRef™ automatic performance verification
- LinSet™ automatic performance verification*
- Peristaltic pump SPR200

* Only for UV7



UV5 and UV7 Spectrophotometers UV/VIS Excellence Line

The UV5 and UV7 Excellence instruments optimize spectroscopic workflows effectively. FastTrack™ technology makes for speedy and reliable measurements. Trustworthy spectroscopic performance is combined with intuitive and efficient One Click™ operation. The UV5 provides simplicity in UV/VIS spectroscopy with easy direct measurement applications. The UV7 is strictly tested according to EU and US Pharmacopeia and provides advanced automation possibilities based on METTLER TOLEDO methods.

UV/VIS spectroscopy was never so easy and reliable to use thanks to:

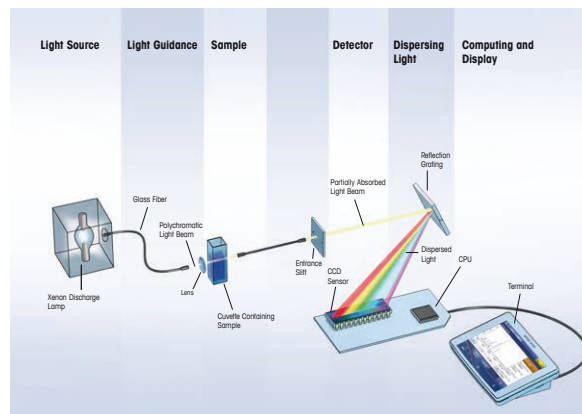
- UV5 – simple and fast
- UV7 – excellent performance
- Compact modularity
- Direct measurements and methods

FastTrack™ Technology

Superior Performance by Design

Measure accurately and fast

- Unique system design with excellent optical performance
- Pulsed Xenon flash lamp and 2048 channel CCD array detector for full spectrum scan within 1 second
- Quartz glass fibers guarantee excellent signal to noise ratio thanks to optimal light guidance and yield
- Robust design and compact layout without moving parts
- Open sample area for efficient cuvette handling



FastTrack Technology
Brings the light on the fast track

Feature and technical comparison UV5/UV7 Excellence Line

	Feature / Parameters	UV5	UV7
Optical performance	Wavelength range [nm]	190–1100	190–1100
	Resolution (toluene in hexane)	> 1.5	> 1.9
	Wavelength accuracy (measured with NIST2034 holmium oxide) [nm]	±0.9	±0.5
	Wavelength repeatability (measured with NIST2034 holmium oxide) [nm]	< 0.15	< 0.08
	Photometric accuracy (measured with NIST935 potassium dichromate) [A]	±0.005 (≤ 1A)	±0.005 (≤ 1A)
	Photometric accuracy (measured with NIST930/1930 neutral density filter) [A]	±0.005 (≤ 1A)	±0.005 (≤ 1A)
	Photometric repeatability (measured with NIST935 potassium dichromate) [A]	< 0.002	< 0.002
	Photometric repeatability (measured with NIST930/1930 neutral density filter) [A]	< 0.003	< 0.003
	Stray light at 198 nm (measured with KCl)	> 2.0A (< 1.0% T)	> 2.3A (< 0.5% T)
	Stray light at 220 nm (measured with KI)	> 3.5A or < 0.03% T	> 3.7A or < 0.02% T
	Stray light at 340 nm (measured with NaNO ₂)	> 3.7A or < 0.02% T	> 3.7A or < 0.02% T
	Noise [A]	< 0.002	< 0.002
	Baseline flatness [A]	< 0.002	< 0.002
	Tested according to USP and Ph. Eur.	no	yes
Minimal scan time full range [s]	1	1	
One Click™ UV/VIS spectroscopy	Shortcuts per user	24	24
Temperature control	CuveT thermostating unit	•	•
Automation	Peristaltic pump FillPalMini and SPR200	•	•
	CuvetteChanger	•	•
	InMotion Sample Changer	•	•
	CertiRef™ automatic performance verification	•	•
	LinSet™ automatic linearity verification	–	•
Applications & Methods	Direct measurements	3	4
	Pre-defined METTLER TOLEDO methods	–	21
	Method editor	•	•
	Max. number of methods	50	100
	Support of the following color maps: CIE L*a*b*, CIE Luv, Tristimulus (X,Y,Z), Chromaticity (x,y), Lab according to Hunter	•	•
	Support of the following color numbers: ASBC, EBC, Gardner, Hess-Ives, APHA/Pt-Co/Hazen, Saybolt, Yellowness Index	•	•
Results	Number of results stored in instrument	20	100
	Result storage on USB stick	•	•
	Result transfer via TCP on remote PC	•	•
PC software	LabX® UV/VIS software	•	•
Languages	English/German/French/Spanish/Italian/Chinese/Russian/Portuguese/Japanese	•	•
Connectivity	USB devices (memory stick for result storage, bar code reader, printer)	•	•
	Interfaces: Ethernet (PC, network printer), RS232-C	•	•
Terminal	7" QVGA Color TFT 800 x 480 resolution touch sensitive screen	•	•
Instrument dimensions	Width x depth x height (without terminal) [mm]	208 x 255 x 228	208 x 255 x 228
	Weight incl. terminal [kg]	6.4	6.4

The data above apply to hardware version 2 and firmware 3.0.1 or later.



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Subject to technical changes
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