UV-VIS Spectrophotometer XD 7500

XD 7500 UV-VIS & XD 7000 VIS make premium spectrophotometry affordable

Highlights

- Premium optical system with reference beam
- Automatic test recognition with internal barcode reader
- Automatic cuvette type detection
- More than 140 analytical methods implemented
- Bright colour display
- Ethernet, USB

The new Lovibond® XD 7500 UV-VIS spectrophotometer and XD 7000 for the visible range combine state of the art dual beam optics with ease of use and flexibility.

The instruments benefit from: a barcode test recognition system; over 140 pre-programmed analytical methods and automatic cuvette detection. Every Lovibond® photometric method is available with additional new methods for the UV range. Analytical quality assurance procedures include checks of the photometer, the total system (including methods) and sample matrix effects and password protection for three different user levels.

Further functions of the spectrophotometers include: measurement of transmission and absorbance; scanning of spectra; kinetics analysis and creation of user-defined methods.

The instruments have a bright graphic colour display and interfaces to a PLC-3 printer, USB and Ethernet for data management and instrument updates.

Technical data		
	XD 7000	**XD 7500**
Part number	471307000	471307500
Wavelength range	320 – 1100 nm (scan range)	190 – 1100 nm (scan range)
Light source	Tungsten-halogen-lamp	Xenon flash lamp (500 millionen flashes possible)
Optical system	grid monochromator with reference beam and beam splitter after exit slit	
Measurement	concentration, single and multi-wavelength measurement of absorbance and % transmission, kinetics, spectra	
Supported cuvette types	round: 13, 16 and 24 mm rectangular: 10, 20 and 50 mm	
Automatic cuvette recognition	round cuvettes, 10,20,50 mm rectangular cuvettes are detected	
Test recognition	via internal barcode reader	
Dimensions (w x h x d)	422 x 195 x 323 mm	
Weight	approx. 4.5 kg	
Power supply	100 – 240V, 50/60 Hz	
Display	7“ high contrast colour graphic-dislay	
Protection class	IP30	
Keyboard	membrane keyboard	
Interfaces	ethernet, USB B, USB A for external memory, keyboard, barcode-scanner and PCL compatible printer	
Spectral bandwidth	4nm	
Wavelength accuracy	+/- 1nm on all Holmium peaks	
Wavelength reproducability	better than 0.5nm	
Photometrical range	-3.3 to +3.3 Abs	
Photometrical resolution	Abs.: 0.001 Transmission: 0.1%	
Photometrical accuracy/reproducability	0.003 Abs below 0.6 Abs 0.5 % from 0.6 to 2.0 Abs	
Photometrical reproducability	0.003 Abs below 0.6 Abs 0.5 % from 0.6 to 2.0 Abs	
Photometrical linearity	<1% up to 2.0 Abs between 340 to 900 nm	
Drift	<0.005 Abs per hour after 15 minutes heat up time	
Internal Storage	approx. 5000 data sets 40 MB for spectra and kinetics	
Programmability	up to 1000 user programms 20 user profiles	

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