

Lovibond® Water Testing

Tintometer® Group



XD 7000 and XD 7500 Water Quality Spectrophotometers

The new XD 7000 and XD 7500 Water Quality Spectrophotometers from Lovibond® Tintometer® combine a state-of-the-art optical system with ease of use and flexibility for a wide range of testing applications.

Preprogrammed methods for over 150 water quality parameters and ranges

- Automatic Test Recognition saves time and eliminates errors
- Method support and assistance
- Automatic cuvette type detection

Intuitive Interface

- Easy-to-read, full-color display with softkeys and integrated keyboard
- Output to PCL-3 compatible printer, USB or Ethernet connection
- Software and new method upload via USB or PC connection
- Flexibility to add up to 100 user-defined methods

User Security for Data Protection

- Create up to 3 different user levels with password protection.
- Create user accounts and assign a level of access to ensure users only have access to what they need
- Support of analytical quality assurance procedures include the ability to set tolerances and reminders for calibration protocols.



The XD 7000 (VIS) and XD 7500 (UV-VIS) will provide users with the full range of functions that is required from a spectrophotometer:

- Measurement of transmission and absorbance
- Scanning of spectral data
- Recording of kinetic measurements
- Creation of measuring methods based on up to ten wavelengths with various mathematical operations.

All currently available colorimetric test methods from Lovibond® Tintometer® are integrated into the system. Our methods will also be expanded to include a variety of new methods that require the UV range.



	XD 7000	XD 7500
Part Number	71 30 70 00	71 30 75 00
Wavelength Range	320 – 1100 nm (scan range)	190 – 1100 nm (scan range)
Light Source	Tungsten-halogen-lamp	Xenon flash lamp (500 million 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	internal barcode reader	
Dimensions (W x H x D)	422 x 195 x 323 mm	
Weight	<10 kg	
Power Supply	100 – 240V, 50/60 Hz	
Display	7" high contrast color graphic display	
Protection Class	IP 30	
Keyboard	membrane keyboard	
Interfaces	Ethernet, USB B, USB A for external memory, keyboard, mouse, bar code-scanner and PCL compatible printer	
Spectral Bandwidth	4 nm	
Wavelength Accuracy	+/- 1nm on all Holmium peaks	
Wavelength Reproducibility	better than 0.5 nm	
Photometrical Range	-3.3 to +3.3 Abs	
Photometrical Resolution	Abs.: 0.001 Transmission: 0.1%	
Photometric Accuracy	0.003 Abs below 0.6 Abs 0.5% from 0.6 to 2.0 Abs	
Photometric Reproducibility	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	

Subject to change without notice.