

# 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.

[www.lovibond.com](http://www.lovibond.com)





# S P E C I F I C A T I O N S

	<b>XD 7000</b>	<b>XD 7500</b>
<b>Part Number</b>	71 30 70 00	71 30 75 00
<b>Wavelength Range</b>	320 – 1100 nm (scan range)	190 – 1100 nm (scan range)
<b>Light Source</b>	Tungsten-halogen-lamp	Xenon flash lamp (500 million flashes possible)
<b>Optical System</b>	grid monochromator with reference beam and beam splitter after exit slit	
<b>Measurement</b>	concentration, single and multi-wavelength measurement of absorbance and % transmission, kinetics, spectra	
<b>Supported Cuvette Types</b>	round: 13, 16 and 24 mm rectangular: 10, 20 and 50 mm	
<b>Automatic Cuvette Recognition</b>	round cuvettes, 10,20,50 mm rectangular cuvettes are detected	
<b>Test recognition</b>	internal barcode reader	
<b>Dimensions (W x H x D)</b>	422 x 195 x 323 mm	
<b>Weight</b>	<10 kg	
<b>Power Supply</b>	100 – 240V, 50/60 Hz	
<b>Display</b>	7" high contrast color graphic display	
<b>Protection Class</b>	IP 30	
<b>Keyboard</b>	membrane keyboard	
<b>Interfaces</b>	Ethernet, USB B, USB A for external memory, keyboard, mouse, bar code-scanner and PCL compatible printer	
<b>Spectral Bandwidth</b>	4 nm	
<b>Wavelength Accuracy</b>	+/- 1nm on all Holmium peaks	
<b>Wavelength Reproducibility</b>	better than 0.5 nm	
<b>Photometrical Range</b>	-3.3 to +3.3 Abs	
<b>Photometrical Resolution</b>	Abs.: 0.001 Transmission: 0.1%	
<b>Photometric Accuracy</b>	0.003 Abs below 0.6 Abs 0.5% from 0.6 to 2.0 Abs	
<b>Photometric Reproducibility</b>	0.003 Abs below 0.6 Abs 0.5% from 0.6 to 2.0 Abs	
<b>Photometrical Linearity</b>	<1% up to 2.0 Abs between 340 to 900 nm	
<b>Drift</b>	<0.005 Abs per hour after 15 minutes heat up time	

Subject to change without notice.