

# Lovibond® Water Testing

## Tintometer® Group



### XD 7000 (VIS)

Simplify your Work - Save Time and Money!



- Premium optical system with reference beam
- Automatic test recognition with internal barcode reader
- Automatic cuvette type detection
- Support of analytical quality assurance

Part Number: 71307000

#### Latest technology

The XD 7000 and XD 7500 spectrophotometers are equipped with VIS respectively UV / VIS reference beam technology.

#### Automatic test recognition

Each of the more than 150 pre-programmed Lovibond® methods is recognized by barcode as well as the cuvette type.

#### Analytical quality assurance

Standard procedures for analytical quality assurance support the verification of the photometer, the overall system (including the chemical methodology) and the verification of matrix effects.

#### Built-in security levels

The devices support the assignment of passwords and the assignment of up to three different levels of rights.

#### Additional functions

Measurement of transmission and absorption, spectral scan, kinetics analysis, as well as the creation of user-defined methods.

#### Interfaces for data processing

You want to process your data? With Ethernet, USB B, USB A for external memory, keyboard, barcode scanner and printer different versions are available.

#### Industry

Chemical Industry | Food and Beverage Industry | Industries Others | Marine Industry | Municipalities | NGO | Oil and Gas | Pharmaceutical Industry | Power and Energy

#### Application

Boiler Water | Cooling Water | Disinfection Control | Drinking Water Treatment | Galvanization | Pool Water Control | Pool Water Treatment | Raw Water Treatment | Waste Water Treatment

#### XD 7000 (VIS)

The XD series instruments are ideal for routine and spectral analysis. As true all-rounders, the XD 7000 and XD 7500 facilitate work routines, especially with automatic method recognition using barcodes, automatic cell recognition and more than 150 pre-programmed methods. In addition to analytical quality control, they also support Good Labor Practice (GLP). The instruments are available together with bar-coded test tubes and a wide range of accessories from a single source - which is also easy on your wallet. High-quality reference beam optics, usability, easy handling and multilingual global applicability round off the versatility of the VIS and UV/VIS spectrophotometers, which are also equipped for flexible on-site use.

## Measuring Range

Test Name	Measuring Range	Chemical Method
Alkalinity-m HR T	5 - 500 mg/l CaCO <sub>3</sub>	Acid / Indicator
Alkalinity-m T	5 - 200 mg/l CaCO <sub>3</sub>	Acid / Indicator
Alkalinity-p T	5 - 500 mg/l CaCO <sub>3</sub>	Acid / Indicator
Aluminium PP	0.01 - 0.25 mg/l Al	Eriochrom Cyanine R
Aluminium T	0.01 - 0.3 mg/l Al	Eriochrom Cyanine R
Ammonia HR TT	1.0 - 50 mg/l N	Salicylate
Ammonia LR TT	0.02 - 2.5 mg/l N	Salicylate
Ammonia PP	0.01 - 0.8 mg/l N	Salicylate
Ammonia T	0.02 - 1 mg/l N	Indophenole Blue
Arsenic	0.02 - 0.6 mg/l As	Silver Diethyldithiocarbamate
Boron T	0.1 - 2 mg/l B	Azomethine
Bromine 10 T	0.1 - 3 mg/l Br <sub>2</sub>	DPD
Bromine 50 T	0.05 - 1 mg/l Br <sub>2</sub>	DPD
Bromine PP	0.05 - 4.5 mg/l Br <sub>2</sub>	DPD
Bromine T	0.05 - 13 mg/l Br <sub>2</sub>	DPD
Cadmium M. TT	0.025 - 0.75 mg/l Cd	Cadion
Chloride L (A)	0.5 - 20 mg/l Cl <sup>-</sup>	Mercury Thiocyanate / Iron Nitrate
Chloride L (B)	5.00 - 60 mg/l Cl <sup>-</sup>	Iron(III)-thiocyanate
Chloride T	0.5 - 25 mg/l Cl <sup>-</sup>	Silver Nitrate / Turbidity
Chlorine 10 T	0.1 - 6 mg/l Cl <sub>2</sub>	DPD
Chlorine 50 T	0.02 - 0.5 mg/l Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine dioxide 50 T	0.05 - 1 mg/l ClO <sub>2</sub>	DPD / Glycine
Chlorine dioxide PP	0.04 - 3.8 mg/l ClO <sub>2</sub>	DPD
Chlorine dioxide T	0.02 - 11 mg/l ClO <sub>2</sub>	DPD / Glycine
Chlorine HR 10 T	0.1 - 10 mg/l Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine HR (KI) T (105)	5 - 200 mg/l Cl <sub>2</sub>	KI / Acid
Chlorine L	0.02 - 4.0 mg/l Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine MR PP	0.02 - 3.5 mg/l Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine PP	0.02 - 2 mg/l Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine T	0.01 - 6.0 mg/l Cl <sub>2</sub> <sup>a)</sup>	DPD
Chromium 50 PP	0.005 - 0.5 mg/l Cr <sup>b)</sup>	Diphenylcarbazide
Chromium PP	0.02 - 2 mg/l Cr <sup>b)</sup>	Diphenylcarbazide
COD HR TT	200 - 15000 mg/l COD <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
COD LMR TT	15 - 300 mg/l COD <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
COD LR TT	3 - 150 mg/l COD <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
COD MR TT	20 - 1500 mg/l COD <sup>b)</sup>	Dichromate / H <sub>2</sub> SO <sub>4</sub>
Copper 50 T	0.05 - 1 mg/l Cu <sup>a)</sup>	Biquinoline
Copper L	0.05 - 4 mg/l Cu <sup>a)</sup>	Bicinchoninate
Copper PP	0.05 - 5 mg/l Cu	Bicinchoninate
Copper T	0.05 - 5 mg/l Cu <sup>a)</sup>	Biquinoline
Cyanide 50 L	0.005 - 0.2 mg/l CN <sup>-</sup>	Pyridine-barbituric Acid
Cyanide L	0.01 - 0.5 mg/l CN <sup>-</sup>	Pyridine-barbituric Acid
CyA T	10 - 160 mg/l CyA	Melamine
DEHA PP	0.02 - 0.5 mg/l DEHA	PPST
DEHA T (L)	0.02 - 0.5 mg/l DEHA	PPST
Fluoride L	0.05 - 2 mg/l F <sup>-</sup>	SPADNS
Formaldehyde 10 M. L	1.00 - 5.00 mg/l HCHO	H <sub>2</sub> SO <sub>4</sub> / Chromotropic acid
Formaldehyde 50 M. L	0.02 - 1.00 mg/l HCHO	H <sub>2</sub> SO <sub>4</sub> / Chromotropic acid
Formaldehyde M. TT	0.1 - 5 mg/l HCHO	H <sub>2</sub> SO <sub>4</sub> / Chromotropic acid
H <sub>2</sub> O <sub>2</sub> 50 T	0.01 - 0.5 mg/l H <sub>2</sub> O <sub>2</sub>	DPD / Catalyst
H <sub>2</sub> O <sub>2</sub> HR L	40 - 500 mg/l H <sub>2</sub> O <sub>2</sub>	Titanium Tetrachloride / Acid

Test Name	Measuring Range	Chemical Method
H <sub>2</sub> O <sub>2</sub> LR L	1 - 50 mg/l H <sub>2</sub> O <sub>2</sub>	Titanium Tetrachloride / Acid
H <sub>2</sub> O <sub>2</sub> T	0.03 - 3 mg/l H <sub>2</sub> O <sub>2</sub>	DPD / Catalyst
Hardness Calcium (B) T	20 - 500 mg/l CaCO <sub>3</sub>	Murexide
Hardness Calcium (B) T	50 - 900 mg/l CaCO <sub>3</sub>	Murexide
Hardness total HR T	20 - 500 mg/l CaCO <sub>3</sub> <sup>i)</sup>	Metallphthaleine
Hardness total T	2 - 50 mg/l CaCO <sub>3</sub>	Metallphthaleine
Hazen 24	10 - 500 mg/l Pt	(APHA) Platinum Cobalt Standard Method
Hazen 50	10 - 500 mg/l Pt	(APHA) Platinum Cobalt Standard Method
Hydrazine C	0.01 - 0.7 mg/l N <sub>2</sub> H <sub>4</sub> <sup>o)</sup>	PDMAB
Hydrazine L	5 - 600 µg/l N <sub>2</sub> H <sub>4</sub>	Dimethylaminobenzaldehyde
Hydrazine P	0.05 - 0.5 mg/l N <sub>2</sub> H <sub>4</sub>	Dimethylaminobenzaldehyde
Hypochlorite T	0.2 - 17 % NaOCl	Potassium Iodide
Iron 10 T	0.05 - 1 mg/l Fe	Ferrozine / Thioglycolate
Iron 50 PP	0.01 - 1.5 mg/l Fe <sup>9)</sup>	1,10-Phenanthroline
Iron 50 T	0.01 - 0.5 mg/l Fe	Ferrozine / Thioglycolate
Iron (TPTZ) PP	0.02 - 1.8 mg/l Fe	TPTZ
Iron HR L	0.1 - 10 mg/l Fe	Thioglycolate
Iron in Mo PP (224)	0.01 - 1.8 mg/l Fe	TPTZ
Iron LR L (A)	0.03 - 2 mg/l Fe	Ferrozine / Thioglycolate
Iron LR L (B)	0.03 - 2 mg/l Fe	Ferrozine / Thioglycolate
Iron PP	0.02 - 3 mg/l Fe <sup>9)</sup>	1,10-Phenanthroline
Iron T	0.02 - 1 mg/l Fe	Ferrozine / Thioglycolate
K <sub>S4.3</sub> T	0.1 - 4 mmol/l K <sub>S4.3</sub>	Acid / Indicator
Lead 10	0.1 - 5 mg/l Pb	4-(2-Pyridylazo)-resorcin
Lead (A) TT	0.1 - 5 mg/l Pb	4-(2-Pyridylazo)-resorcin
Lead (B) TT	0.1 - 5 mg/l Pb	4-(2-Pyridylazo)-resorcin
Iodine T	0.05 - 3.6 mg/l I	DPD
Manganese HR PP	0.1 - 18 mg/l Mn	Periodate Oxidation
Manganese L	0.05 - 5 mg/l Mn	Formaloxime
Manganese LR PP	0.01 - 0.7 mg/l Mn	PAN
Manganese T	0.2 - 4 mg/l Mn	Formaloxime
Molybdate HR L	1 - 100 mg/l MoO <sub>4</sub>	Thioglycolate
Molybdate HR PP	0.3 - 40 mg/l Mo	Mercaptoacetic Acid
Molybdate LR PP	0.03 - 3 mg/l Mo	Ternary Complex
Molybdate T	1 - 50 mg/l MoO <sub>4</sub>	Thioglycolate
Nickel 50 L	0.02 - 1 mg/l Ni	Dimethylglyoxime
Nickel L	0.2 - 7 mg/l Ni	Dimethylglyoxime
Nitrate HR	1.2 - 35 mg/l N	2,6-Dimethylphenole
Nitrate LR TT	0.5 - 14 mg/l N	2,6-Dimethylphenole
Nitrate T	0.08 - 1 mg/l N	Zinc Reduction / NED
Nitrate TT	1 - 30 mg/l N	Chromotropic Acid
Nitrite HR TT	0.3 - 3 mg/l N	Sulfanilic / Naphthylamine
Nitrite LR TT	0.03 - 0.6 mg/l N	Sulfanilic / Naphthylamine
Nitrite PP	0.01 - 0.3 mg/l N	Diazotation
Nitrite T	0.01 - 0.5 mg/l N	N-(1-Naphthyl)-ethylenediamine
Oxygen active T	0.1 - 10 mg/l O <sub>2</sub>	DPD
Oxygen dissolved C	10 - 1100 µg/l O <sub>2</sub> <sup>e)</sup>	Rhodazine D TM
Ozone 50 T	0.02 - 0.5 mg/l O <sub>3</sub>	DPD / Glycine
Ozone PP	0.015 - 2 mg/l O <sub>3</sub>	DPD / Glycine
Ozone T	0.02 - 2 mg/l O <sub>3</sub>	DPD / Glycine
Phenol T	0.1 - 5 mg/l C <sub>6</sub> H <sub>5</sub> OH	4-Aminoantipyrine
PHMB T	2 - 60 mg/l PHMB	Buffer / Indicator

Test Name	Measuring Range	Chemical Method
Phosphate h. TT	0.02 - 1.6 mg/l P <sup>b)</sup>	Phosphomolybdenum Blue
Phosphate HR C	1.6 - 13 mg/l P <sup>c)</sup>	Vanadomolybdate
Phosphate HR L	5 - 80 mg/l PO <sub>4</sub>	Vanadomolybdate
Phosphate HR T	0.33 - 26.09 mg/l P	Vanadomolybdate
Phosphate HR TT	0.98 - 19.57 mg/l P	Vanadomolybdate
Phosphate LR C	0.016 - 1.6 mg/l P <sup>c)</sup>	Stannous Chloride
Phosphate LR L	0.1 - 10 mg/l PO <sub>4</sub>	Phosphomolybic Acid / Ascorbic Acid
Phosphate LR T	0.016 - 1.305 mg/l P	Phosphomolybdenum Blue
Phosphate PP	0.02 - 0.815 mg/l P	Phosphomolybdenum Blue
Phosphate t. TT	0.02 - 1.1 mg/l P <sup>b)</sup>	Phosphomolybdenum Blue
Phosphate total HR TT	1.5 - 20 mg/l P <sup>b)</sup>	Phosphomolybdenum Blue
Phosphate total LR TT	0.07 - 3 mg/l P <sup>b)</sup>	Phosphomolybdenum Blue
Phosphate TT	0.02 - 1.63 mg/l P	Phosphomolybdenum Blue
Phosphonate PP	0.2 - 125 mg/l PO <sub>4</sub>	Persulfate UV Oxidation Method
pH-value HR T	8.0 - 9.6	Thymol Blue
pH value L	6.5 - 8.4	Phenol Red
pH-value LR T	5.2 - 6.8	Bromocresolpurple
pH-value T	6.5 - 8.4	Phenol Red
Polyacrylate L	1 - 30 mg/l Polyacryl	Turbidity
Potassium T	0.7 - 16 mg/l K	Tetraphenylborat Turbidity
SAC 436 nm	0.5 - 50 m <sup>-1</sup>	Direct Reading EN ISO 7887:1994
SAC 525 nm	0.5 - 50 m <sup>-1</sup>	Direct Reading EN ISO 7887:1994
SAC 620 nm	0.5 - 50 m <sup>-1</sup>	Direct Reading EN ISO 7887:1994
Selenium	0.05 - 2 mg/l Se	3,3'-Diaminobenzidine in Toluene
Silcate T	0.05 - 4 mg/l SiO <sub>2</sub>	Silicomolybdenum Blue
Silicate HR PP	1 - 100 mg/l SiO <sub>2</sub>	Silicomolybdate
Silicate L	0.1 - 8 mg/l SiO <sub>2</sub>	Heteropolyblue
Silicate LR PP	0.05 - 1.6 mg/l SiO <sub>2</sub>	Heteropolyblue
Silica VLR PP	0.005 - 0.5 mg/l SiO <sub>2</sub>	Heteropolyblue
Sulphate HR PP	50 - 1000	Bariumsulphate Turbidity
Sulphate PP	5 - 100 mg/l SO <sub>4</sub> <sup>2-</sup>	Bariumsulphate Turbidity
Sulphate T	5 - 100 mg/l SO <sub>4</sub> <sup>2-</sup>	Bariumsulphate Turbidity
Sulphide T	0.04 - 0.5 mg/l S <sup>2-</sup>	DPD / Catalyst
Sulphite 10 T	0.1 - 10 mg/l SO <sub>3</sub>	DTNB
Sulphite T	0.1 - 5 mg/l SO <sub>3</sub>	DTNB
Surfactants M. (anion.) TT	0.05 - 2 mg/l SDSA	Methylene Blue
Surfactants M. (cation.) TT	0.05 - 1.5 mg/l CTAB	Disulphine Blue
Surfactants M. (not ionic) TT	0.1 - 7.5 mg/l Triton X-100	TBPE
Suspended solids 24	10 - 750 mg/l TSS	Turbidity / Attenuated Radiation Method
Suspended solids 50	10 - 750 mg/l TSS	Turbidity / Attenuated Radiation Method
TN HR 2 TT	5 - 140 mg/l N <sup>b)</sup> <sup>1)</sup>	2,6-Dimethylphenole
TN HR TT	5 - 150 mg/l N <sup>b)</sup>	Persulphate Digestion
TN LR 2 TT	0.5 - 14 mg/l N <sup>b)</sup>	2,6-Dimethylphenole
TN LR TT	0.5 - 25 mg/l N <sup>b)</sup>	Persulphate Digestion
TOC HR M. TT	50 - 800 mg/l TOC <sup>b)</sup>	H <sub>2</sub> SO <sub>4</sub> / Persulphate / Indicator

Test Name	Measuring Range	Chemical Method
TOC LR M. TT	5 - 80 mg/l TOC <sup>b)</sup>	H <sub>2</sub> SO <sub>4</sub> / Persulphate / Indicator
Triazole PP	1 - 16 mg/l Benzotriazole or Tolyltriazole	Catalyzed UV Digestion
Turbidity 50	5 - 500 FAU	Attenuated Radiation Method
Turbidity 24	10 - 1000 FAU	Attenuated Radiation Method
Urea T	0.1 - 2.5 mg/l Urea	Indophenol / Urease
Zinc L	0.1 - 2.5 mg/l Zn	Zincon / EDTA
Zinc T	0.02 - 1 mg/l Zn	Zincon

## Technical Data

<b>Optics</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>Wavelength Range</b>	320 - 1100 nm
<b>Wavelength Resolution</b>	1 nm
<b>Wavelength Accuracy</b>	± 1 nm on all Holmium peaks
<b>Wavelength Reproducibility</b>	better than 0,5 nm
<b>Spectral Scope</b>	4 nm
<b>Photometric Range</b>	-3.3 - +3.3 Abs
<b>Photometric Resolution</b>	Absorption: 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>Photometric Linearity</b>	< 1 % up to 2.0 Abs between 340 to 900 nm
<b>Scan Speed</b>	700 - 2000 nm/min.
<b>Stray Light</b>	< 0.1 % Transmission at 340 and 408 nm
<b>Drift</b>	< 0.005 Abs per hour after 15 minutes heat up time
<b>Operation</b>	Membrane Keyboard
<b>Display</b>	7" high contrast colour graphic-display
<b>Suitable Vials</b>	Rectangular Cuvettes 10 mm Rectangular Cuvettes 20 mm Rectangular Cuvettes 50 mm Round Cuvettes 13 mm Round Cuvettes 16 mm Round Cuvettes 24 mm
<b>Automatic Cuvette Recognition</b>	Round cuvettes: 13, 16 and 24 mm ; Rectangular cuvettes: 10, 20 and 50mm
<b>Test Recognition</b>	via internal barcode reader
<b>Interfaces</b>	Ethernet USB B USB A for External Memory Keypad Barcode-Scanner PCL Compatible Printer
<b>Auto-Check</b>	Self-test at each switch-on: test of memory, processor, internal interface, filter lamp and additional calibration of each wavelength
<b>LIMS Compatibility</b>	ASCII, .csv-files
<b>Internal Storage</b>	approx. 5000 data sets (method, user ID, date, result), autostorage function / manual storage function
<b>Security</b>	Password protection possible: 3 different user levels (guest, user, admin)
<b>Power Drain</b>	100 - 240 V, 50/60 Hz
<b>Power Supply</b>	Buffer batteries (4 x AA), power supply unit with cable
<b>Auto - OFF</b>	Yes
<b>Portability</b>	Benchtop
<b>Environmental Conditions</b>	+10 °C to 35 °C (41 °F to 95 °F),

≤ 75 % average humidity within one year 95 %, max. 30 days/year, 85 % all other days

<b>Stock Conditions</b>	-25 °C to +65 °C (-13 °F to 268 °F)
<b>Compliance</b>	CE
<b>Protection Class</b>	IP 30
<b>IP Protection Class</b>	EN 60529
<b>Interference Emission</b>	Class B
<b>Interference Immunity</b>	IEC 61000-4-3
<b>Tolerance Extension</b>	0.008 E
<b>Meter Safety</b>	EC Directive 2014/35/EC EN 61010-1:2010
<b>Languages User Interface</b>	German, English, French, Spanish, Italian, Portuguese, Polish, Indonesian, Russian, Chinese, Japanese, Dutch, Swedish, Norwegian, Czech, Romanian, Macedonian, Slovenian, Hungarian, Turkish, Korean, Vietnamese, Thai, Serbian, Malaysian, Danish, Bulgarian
<b>Languages Quick Start Guide</b>	German, English, French, Spanish, Italian, Portuguese, Polish, Indonesian, Russian, Chinese, Japanese, Dutch, Swedish, Norwegian, Czech, Romanian, Macedonian, Slovenian, Hungarian, Turkish, Korean, Vietnamese, Thai, Serbian, Malaysian, Danish, Bulgarian
<b>Languages Full User Manual</b>	German, English, Spanish, French, Italian, Portuguese, Chinese, Japanese
<b>Dimensions</b>	422 x 195 x 323 mm
<b>Weight</b>	4.5 kg

Title	Part Number
Screw caps TOC	420757
Measuring spoon no. 8, black	424513
Universal Container - Cap	424648
Plastic funnel with handle (white)	471007
ValidCheck Chlorine 1,5 mg/l	48105510
Stirring rod and spoon	56A006601
W100/OG/10MM Rectangular cell, optical glass	601040
W100/OG/20MM Rectangular cell, optical glass for determination of arsenic	601050
W100/OG/50MM Rectangular cell, optical glass	601070
W110/UV/10MM Rectangular cell, Quartz UV	661130
W110/UV/20MM Rectangular cell, Quartz UV	661140
W110/UV/50MM Rectangular cell, Quartz UV	661160
Energy station XD series/SpectroDirect	711051
Secondary standard set VIS with DAKKS calibration certificate	711160
Light source replacement XD 7000	71310000
Carrying case for XD 7000/7500	71310010
12 V-plug connector for XD 7000/7500	71310020
Barcode Hand-held Scanner	71310030
Semimicro cell, 50 mm with lid	71310045

## Delivery Scope

- 4 batteries (AA)
- 1 power supply cable
- 4 round cuvettes with lid and 1 zero cuvette XD 7x00 (ø 24 mm)
- 1 zero cuvette (ø 16 mm)
- Quickstart guide in 24 languages
- Full user manual in 8 languages

## Accessories

Title	Part Number
Adapter (13 mm) MultiDirect for Vacu-vial	192075
Batteries (AA), set of 4	1950025
Round cuvette 24 mm, set of 12	197620
Round cuvette 24 mm, set of 5	197629
Cleaning cloth	197635
Round cuvette 16 mm, set of 10	197665
Adapter for round cuvettes 13 mm	19802192
Mixing cylinder, 25 ml	19802650
Zero cuvette ø 16 mm for XD 7000/7500	215661
Zero cuvette ø 24 mm for XD 7000/7500	215662
Thermoreactor RD 125	2418940
USB cable 3 m	2444482
Measuring spoon, 1 g	384930
UV Pen Lamp, 254 nm	400740
Cuvette stand for 6 round cuvettes Ø 24 mm	418951
Cuvette stand for 10 round cuvettes Ø 16 mm	418957
Pipette tips*, 1-5 ml (white) 100 pc.	419066
Pipette tips**, 0,1-1 ml (white), 1000 pc.	419073
Automatic pipette*, 1-5 ml	419076
Automatic pipette**, 0,1-1 ml	419077

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