

Lovibond® Water Testing Tintometer® Group



AquaPRO14 - Chlorine, Bromine, pH,
Cyanuric acid, Alkalinity-m, Calcium hardness,
Total hardness, Aluminium, Copper, Iron,
Ammonium, Phosphate ortho LR

Professional Pool Photometers



- Optimized for Pool Water Analysis
- Time Saving Features that Ensure Accuracy
- Rugged, Low Maintenance Design
- Waterproof

Part Number: 278051

The MD 100 has several key features that make it a favorite among users.

Waterproof Design

The IP 68 design of this instrument ensures that the MD 100 remains water tight for up to 1 hour at 0.1 meter. Don't worry about dropping the instrument into a body of water - it floats!

Accurate, Reproducible Results

The optical system of the MD 100 utilizes LEDs and interference filters which quickly gives you results that you can be confident in.

User Calibration Mode

A one-point calibration is possible. Additionally, all MD 100 instruments have the ability to display readings directly in ABS or %T units.

One-time-Zero Function

Don't waste time waiting for your instrument to Zero after each test. When testing a new sample, zero the instrument once and all subsequent tests of that sample do not require you to re-zero the instrument.

Automatic Data Storage with Transfer Capabilities

The MD 100 automatically stores the last 16 readings with time and date stamp. These results can be transferred to a spreadsheet using the IRiM accessory.

Ergonomic Design

Whether you're using the MD 100 out in the field or in the lab, the design of the instrument makes it easy to handle and view the display. If you're using the instrument in the lab, the rubber feet on the bottom of the housing eliminates the need for two hand operation or to chase your instrument around the workbench.

Factory Programmed

All MD 100 instruments are supplied ready to use with up to 14 calibration curves. All you need to do is select the test you need, prepare your sample and test!

Scroll Driven Menu System

The simple interface allows you to quickly reach the test you need. When the instrument is turned on, it will automatically display the last test used.

2-Year Manufacturer's Warranty

Industry

Marine Industry | Municipalities | Pool Domestic | Pool Public | Pool Services

Application

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

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The Lovibond® MD 100 6in1 Pool Photometer is a multi-parameter instrument which allows for fast and easy measurement of pool water quality. Six key parameters can be measured utilizing tablet reagents. Ideal for poolside testing, the MD 100 comes ready to use with all of the reagents and accessories required for testing.

Measuring Range

Test Name	Measuring Range	Chemical Method
Alkalinity-m T	5 - 200 mg/L CaCO ₃	Acid / Indicator
Aluminium T	0.01 - 0.3 mg/L Al	Eriochrom Cyanine R
Ammonia T	0.02 - 1 mg/L N	Indophenole Blue
Bromine T	0.05 - 13 mg/L Br ₂	DPD
Chlorine HR T	0.1 - 10 mg/L Cl ₂ ^{a)}	DPD
Chlorine T	0.01 - 6.0 mg/L Cl ₂ ^{a)}	DPD
Copper T	0.05 - 5 mg/L Cu ²⁺	Biquinoline
CyA T	10 - 160 mg/L CyA	Melamine
Hardness Calcium (B) T	20 - 500 mg/L CaCO ₃	Murexide
Hardness total HR T	20 - 500 mg/L CaCO ₃ ^{b)}	Metallphthaleine
Iron T	0.02 - 1 mg/L Fe	Ferrozine / Thioglycolate
Phosphate LR T	0.02 - 1.3 mg/L P	Phosphomolybdenum Blue
pH-value HR T	8.0 - 9.6 pH	Thymol Blue
pH-value T	6.5 - 8.4 pH	Phenol Red

Technical Data

Optics	LEDs, interference filters (IF) and photo sensor in transparent sample chamber. Depending on the version, up to 3 different interference filters are used. Wavelength specifications of interference filters: 430 nm $\Delta\lambda = 5$ nm 530 nm $\Delta\lambda = 5$ nm 560 nm $\Delta\lambda = 5$ nm 580 nm $\Delta\lambda = 5$ nm 610 nm $\Delta\lambda = 6$ nm 660 nm $\Delta\lambda = 5$ nm
Wavelength Accuracy	± 1
Photometric Range	-2500 - 2500 mAbs
Suitable Vials	Round Cuvettes 24 mm
Display	backlit LCD (on keypad)
Interfaces	Infrared
Operation	Foil keypad
Calibration	factory calibration and user calibration. Reset to factory calibration possible
Internal Storage	internal ring memory for 16 data sets
Power Supply	4 micro batteries (AAA)
Battery Life Time	approx. 17 hours

Clock	Real Time Clock and Date
Portability	Portable
Compliance	CE
Dimensions	6.1 x 2.95 x 1.38"

Delivery Scope

- 4 micro batteries (AAA)
- 6 round cuvettes (glass) with lid
- Sealing rings
- 6 Stirring rod
- Brush
- Syringe (10 ml)
- Instruction manual
- Quick Start Guide
- Certificate (COC)
- Warranty information

Accessories

Title	Part Number
Water sampler with bottle 250 mL and lid, AF 631	170500
Micro batteries (AAA), set of 4	1950026
Multy cuvette-2, set of 12	197600
Round cuvette 24 mm \varnothing , set of 12	197620
Sealing ring for round vials 24 mm \varnothing , set of 12	197626
Round cuvette 24 mm \varnothing , set of 5	197629
Cleaning cloth	197635
Round cuvette 16 mm \varnothing , set of 10	197665
Adapter for round cuvettes 16 mm \varnothing	19802190
Mixing cylinder, 25 ml	19802650
Verification Standard Kit MD 100 / 200	215670
Reference Standard Kit Chlorine/pH - 0.2 and 4.0 / 7.45 pH	275680
Stirring rod, 13 cm length	364100
Stirring rod, 10 cm length	364109
Stirring rod, 13 cm length, set of 10	364120
Stirring rod, 10 cm length, set of 10	364130
Membrane filter set for use when preparing samples, 25 membrane filters 0.45 μ m, 2 syringes 20 ml	366150
250 mL bottle, AF 631	375069
Brush, 11 cm length	380230
Measuring beaker, 100ml	384801
Cuvette stand for 6 round cuvettes \varnothing 24 mm	418951
Cuvette stand for 10 round cuvettes \varnothing 16 mm	418957
Plastic funnel with handle (white)	471007
ValidCheck Chlorine 1,5 mg/l	48105510
Additionally for each method	999855

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