

## MaxiDirect Photometer



### Highlights

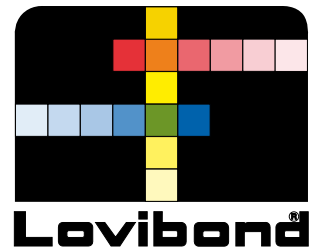
- Automatic wavelength selection
- Easy handling
- User interface in German, English, French, Spanish & Italian
- Storage
- more than 70 methods
- 10 user defined methods
- Infrared interface
- Waterproof
- Mobile

Modern, mobile photometer for rapid, reliable water testing

➔ Please see pages 68 onwards for tests, ranges and reagents

### Applications

- Waste Water
- Drinking Water
- Industrial Process Water
- Scientific & Research
- Governmental and Private Laboratories
- Mobile Applications



With the modern design of the MaxiDirect we have succeeded in combining the mobility of a portable photometer with the characteristics of a modern laboratory photometer.

This new unit covers all the important parameters of water analysis, from aluminium to zinc. The high level of accuracy of Lovibond® reagents and the user-friendly nature of the instrument guarantee rapid and reliable analysis of your water samples. Depending on the application, the unit will operate with tablet reagents, powder packs, liquid reagents or tube tests (16 / 13 mm).

The MaxiDirect operates with 6 interference filters and uses long-life LEDs as a light-source. No moving parts are involved.

Of course, the MaxiDirect has a memory, in which up to 1000 data sets can be stored. The infra-red interface\* enables data to be transmitted to a computer or printer (RS 232 / USB).

\* available as an option : IRiM (infra-red interface module)

### N.I.S.T. Traceability

The instrument has a factory calibration, which is related to internal standards, which are not N.I.S.T traceable. The instrument may be calibrated by the user in a "user calibration mode" with N.I.S.T traceable standards.

(N.I.S.T. = National Institute of Standards and Technology)

### New methods

Test methods are regularly updated to suit market requirements. You can find software updates for new methods and additional languages on our web-site at [www.tintometer.com](http://www.tintometer.com).

### Polynomials

With the help of an external mathematical program, the corresponding polynomial is created from data pairs (concentration/absorption). A known polynomial may also be used. 25 order polynomials ( $y = A+Bx+Cx^2 + Dx^3 + EX^4 + FX^5$ ) can be stored together with user-specific parameters such as wavelength, measuring range, unit and number of decimals.

### Concentration

This function can be used to measure 2 to 14 known standards. On the basis of the concentrations/absorption pairs obtained, the photometer will calculate a linear interpolation between the measured points. Up to 10 methods can be stored for further sample measurements.



## Infra-red data transmission modul IRiM



The IRiM (infra-red interface modul) uses modern infra-red technology to transmit measurement data from the MaxiDirect photometer to one of 3 optional interfaces. These interfaces can be used to connect to a PC, a USB printer<sup>1)</sup> or alternative a serial printer<sup>2)</sup>. The interface which is selected is displayed by an LED function indicator. The user can switch between the interfaces using the „Select“ button.

The unit is supplied complete with data logging software providing easy and rapid transfer of data to the PC. As an option the data can be saved as an Excel sheet or a .txt file.

Measurement data can quickly be printed out, using a specified<sup>1)</sup> USB or alternative a printer with a serial plug-in connected to the IRiM.

<sup>1)</sup> USB printer: HP Deskjet 6940 ; <sup>2)</sup> each ASCII printer

### Delivery content

The IRiM is delivered ready for use, with the following accessories :

USB cable, 4 batteries, screwdriver, CD-ROM, operating instructions and guarantee certificate

**Order code: 21 40 50**

## MaxiDirect Photometer



### Technical Data

<b>Display</b>	Graphic-display	<b>Photometric Accuracy*</b>	2% FS (T = 20°C – 25°C)	<b>Ambient Conditions</b>	5–40°C bei max. 30–90% rel. Feuchtigkeit (nicht kondensierend)
<b>Interfaces</b>	Infrared interface for test data transfer <sup>1</sup> , RJ45 socket for Internet updates <sup>2</sup>	<b>Photometric Resolution</b>	0,005 A	<b>Language Selection</b>	German, English, French, Spanish, Italian, Portuguese, Polish; additional languages via Internet update
<b>Optics</b>	LEDs, interference filters (IF) and photo sensor in transparent sample chamber Wavelength range: 1 = 530 nm IF $\Delta\lambda = 5$ nm 2 = 560 nm IF $\Delta\lambda = 5$ nm 3 = 610 nm IF $\Delta\lambda = 6$ nm 4 = 430 nm IF $\Delta\lambda = 5$ nm 5 = 580 nm IF $\Delta\lambda = 5$ nm 6 = 660 nm IF $\Delta\lambda = 5$ nm IF = interference filter	<b>Operation</b>	Acid and solvent resistant, touch-sensitive keypad with audible feedback via integrated beeper	<b>Memory Capacity</b>	approx. 1000 data sets
<b>Wavelength Accuracy</b>	± 1 nm	<b>Power Supply</b>	4 batteries (Mignon AA/LR6); Operation time: approx. 26 h continuous operation or 3500 tests	<b>CE Test Certificates</b>	EN 61326 1997, A1:1998, A2:2001, A3:2003 Class B EN 61000-4-3:1996 EN 61000-4-2:1995 A1:1998, A2:2001
		<b>Auto-Off</b>	approx. 20 minutes after last keypress with audible signal		
		<b>Dimensions</b>	approx. 210 x 95 x 45 mm (unit) approx. 395 x 295 x 106 mm (case)		
		<b>Weight (unit)</b>	approx. 450 g		

<sup>1</sup> optional available: IRIM (Infrarot Interface Modul)

<sup>2</sup> optional available: connection cable with integrated electronics (RS 232 / RJ-45-Buchse)

\* tested with standard solutions





## Accessories

Item	Code
Set of 12 round vials with cap Height 48 mm, Ø 24 mm	19 76 20
Set of 10 round vials with cap Height 90 mm, Ø 16 mm	19 76 65
Adapter for round vials ø 16 mm	19 80 22 20
Adapter for round vials ø 13 mm	19 80 22 21
Sealing ring for vial ø 24 mm (12 pc.)	19 76 26
Cleaning cloth for vials	19 76 35
Plastic funnel with handle	47 10 07
Plastic stirring rod, 13 cm length	36 41 00
Cleaning brush, 10 cm	38 02 30
Verification Standard Kit	21 56 40


## Delivery Content

The instrument is supplied complete and ready-to-use incl. 4 batteries, 3 vials ø 24 mm, 3 vials ø 16 mm, 1 adapter each for 16 mm and 13 mm vials, carrying case with water resistance foam, **but without reagents.**

**Order code: 21 40 10**

Please specify the reagents or parameters required at time of order.

You can find updated information on parameters and measuring ranges on our website at [www.tintometer.com](http://www.tintometer.com)

 **Please see pages 68 onwards for tests, ranges and reagents**

## Verification Standard Kit

The Verification standard kit for the MaxiDirect is designed to reassure the user about the accuracy and the reliability of the results.

The shelf life of the Verification standard kit is two years from the date of production, provided that storage and use are in accordance with the instructions provided.

**Verification Standard Kit 21 56 40**

