

PM620 Photometers

The ultimate range
in Pool Photometers

For reliable
pool relevant
water analysis



Highlights

- Two units – 13 or 34 parameters
- Hand-held and portable for ease-of-use
- Fully waterproof (IP68)* for anytime, anyplace analysis
- Robust casing for guaranteed longevity
- Back-lit display for enhanced viewing
- PC compatibility – stores up to 1000 results
- Assured Lovibond® accuracy
- Self-contained in sturdy case with accessories and space for additional reagents

*) as defined in IP 68, 1 hour at 0.1 meter

Active oxygen
Alkalinity-M (total)
Aluminium
Ammonia
Bromine
Calcium hardness
Chlorine
Chlorine dioxide
Copper
Hardness, total
Hardness, calcium
Hydrogen peroxide

Iron
Iodine
Langelier Index
Ozone
pH
PHMB (Biguanide)
Phosphate
Sulphate
Sodium Hypochlorite
Stabilizer (Cyanuric acid)
Urea
Water Balance

➔ Assignment of parameters,
see pages 36 and 37

Photometers PM 600 / PM 620

The PM 600 and PM 620 photometer range brings pool testing to the next level for discerning pool operators. The ergonomic, portable, waterproof design enables users to select just one unit for accurate analysis of up to 34 parameters anytime and anyplace.

The **PM 600** focusses on the main pool parameters required for balanced water including: Alkalinity, Bromine, Chlorine, Cyanuric Acid, Iron, Calcium Hardness, Copper, Sodium Hypochlorite, Ozone and pH-value. Compatible with the tried and trusted Lovibond® Tablet reagents, it is designed to be robust, reliable yet easy-to-use for any pool operator.

The **PM 620** extends these capabilities to include up to 34 parameter variants from Acid Demand to Urea. Its unique design enables compatibility with Lovibond® Tablet, Liquid and Powder reagents, making it one of the most flexible and complete pool photometers available today.

Both units offer a large, back-lit graphic display to aid analysis by providing on screen method prompts, information regarding test measurement range and reagent type and automatic countdown timers for accurate reaction periods. The internal memory is capable of storing up to 1000 results with date, time and sample ID. These results can be reviewed at any time and can be downloaded to a PC via an additional Infra-Red module (IRiM)*.

Supplied in a durable, portable case complete with accessories and space for additional reagents, both photometers provide immediate access to the accurate water analysis expected of the Lovibond® brand, clearly the best choice for water analysis.

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

 **Please see pages 50 onwards for reagents (order codes)**

Technical Data

Display	Graphic-display
Interfaces	Infrared interface for test data transfer ¹ , RJ45 socket for Internet updates ²
Optics	LEDs, interference filters (IF) and photo sensor in transparent sample chamber
Wavelength Accuracy	± 1 nm
Photometric Accuracy*	2% FS (T = 20°C – 25°C)
Photometric Resolution	0.005 A
Operation	Acid and solvent resistant, touch-sensitive keypad with audible feedback via integrated beeper
Power Supply	4 batteries (Mignon AA/LR6); Operation time: approx. 26 h continuous operation or 3500 tests
Auto-Off	approx. 20 minutes after last keypress with audible signal
Dimensions	approx. 210 x 95 x 45 mm (unit) approx. 395 x 295 x 106 mm (case)
Weight (unit)	approx. 450 g
Ambient Conditions	5–40°C at max. 30–90% rel. humidity (non condensing)
Language Selection	German, English, French, Spanish, Italian, Portuguese, Polish, Indonesian ; additional languages via Internet update
Memory Capacity	approx. 1000 data sets
CE-Conformity	

¹ optional available: IRiM (Infrared Interface Modul)

² optional available: connection cable with integrated electronics (RS 232 / RJ-45 plug)

* tested with standard solutions

Reference Standard Kits

The reference standards are designed to check the accuracy and the reliability of the results.

It is not possible to calibrate the photometer with the reference standards.

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

Reference Standard Kit Chlorine 21 56 30
0.2* and 1.0* mg/l
for tablet and VARIO methods ¹⁾

Reference Standard Kit Chlorine 21 56 35
0.5* and 2.0* mg/l
for tablet methods only

Reference Standard Kit Chlorine 21 56 36
1.0* and 4.0* mg/l
for tablet methods only

Reference Standard Kit pH 21 56 65
7.45* pH

* Approximate figure, actual figure specified in certificate of analysis enclosed

¹⁾ The standard values mentioned in kit 215630 for the VARIO method are for photometer PM 620 only, because this method is not available in the PM 600

Verification Standard Kit

The Verification standard kit for the PM 600 and PM 620 photometers 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.

Measurements are taken in mAbs.

Verification Standard Kit 21 56 80



Delivery Content

- Instrument in carrying case
- 4 batteries (AA)
- 3 round vials 24 mm ø
- 1 syringe, 1 brush, 1 stirring rod
- 1 plastic beaker 100 ml
- Guarantee sheet
- Certificate of Compliance
- Instruction Manual

PM 600

- 100 tablet reagents each for chlorine (free, combined, total), pH value, calcium hardness, alkalinity-M
Order code: 21 40 60

PM 620

- 100 tablet reagents each for chlorine (free, combined, total), pH value, stabilizer, alkalinity-M
Order code: 21 40 65