

PoolDirect 9 in 1 Photometer

with single key parameter selection

Alkalinity-M
Bromine
Calcium Hardness
Chlorine
Copper
Cyanuric Acid
Langelier-
Saturation-Index
Ozone
pH-value
Water Balance



The 9in1 instrument is designed to provide the highest standards required by today's Pool Managers delivering Accurate, Reliable and Consistent results to control and manage swimming pool water quality. The single button selection of pre-programmed tests combined with on-screen instructions makes the 9in1 ideal for the professional and occasional user. Langelier, or balanced water calculations are often neglected as they are seen as a complex formula with many variables but the 9in1 changes all that. With its Langelier calculator button the formula has been tamed! Just enter the elements of the formula as prompted and the 9in1 will calculate the Balanced Water Index for you. The rugged construction and splash resistance of the 9in1 make it ideal for use at the poolside or in the plant-room.

Technical data and accessories

identical with PoolDirect, see page 47

Delivery Content

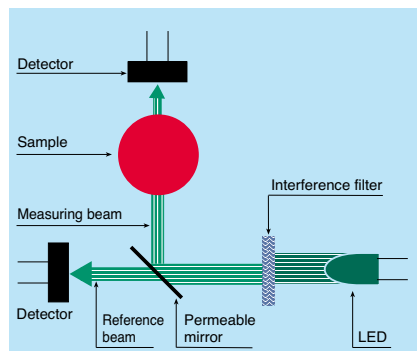
9in1 Photometer, Reagents for all 9 parameters (100 tests), mains adaptor, rechargeable batteries, cable for computer use, 3 test vials, stirring rod, instruction manual.

Order code: 21 20 50 (German version)

Order code: 21 20 55 (basic version)

with batteries instead of rechargeable batteries, without mains charger and PC connection cable

Optics



Twin light-beam technology guarantees optimum precision with PoolDirect photometers.

With this system, the wavelength of a light beam is generated by an LED and fine-tuned through an interference filter. This light beam is then split via a semi-transparent mirror into a measurement beam and a reference beam.

The light intensity of these two beams is measured by two different detectors. The reference beam strikes the detector directly, while the measurement beam first passes through the sample, before it strikes the second detector.

The measurement figure is arrived at by calculating the difference in light intensity of the two beams and this means that only the absorption in the sample is measured. Any interference factors are automatically eliminated.

➔ Please see pages 46 onwards for tests, ranges and reagents

Tests	λ (nm)	Display	Range	Resolution	Method
Alkalinity, Total-M	610	CaCO ₃	5 – 200 mg/l	1.0 mg/l	Acid/Indicator
Bromine	530	Br	0.05 – 13 mg/l	0.01 mg/l	DPD
Chlorine (free)	530	Cl ₂	0.02 – 6 mg/l	0.01 mg/l	DPD
Chlorine (total)	530	Cl ₂	0.02 – 6 mg/l	0.01 mg/l	DPD
Copper	560	Cu ²⁺	0.05 – 5 mg/l	0.01 mg/l	Biquinoline
Cyanuric acid	530	Cys	2 – 160 mg/l*	1.00 mg/l	Melamine
Hardness, Calcium	560	CaCO ₃	0 – 500 mg/l	1.0 mg/l	Murexide
Ozone	530	O ₃	0.02 – 1 mg/l		DPD/Glycine
pH-Value	560	pH	6.5 – 8.4 pH	0.01 pH	Phenolred

Reference Standard Kits

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

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 20
0.2* and 1.0* mg/l

Reference Standard Kit Chlorine 21 56 25
0.5* and 2.0* mg/l

Reference Standard Kit pH 21 56 15
7.45 pH

* Approximate figure, actual figure specified in Certificate of Analysis

Verification Standard Kit

The Verification standard kit for the PoolDirect 9 in 1 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 60



Highlights

- Proven Optical System with Dual Beam Technology
- Pre-programmed methods
- Interface
- Memory for 1000 data sets