

## PoolDirect 9 in 1 Photometer

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



Accurate Dual-  
Beam-  
Technology and  
Interference Filters





# with single key parameter selection

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 123.

## 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)**

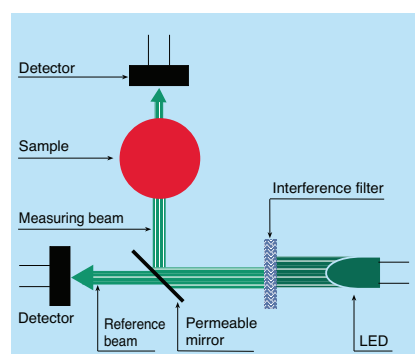
**Order code: 21 20 55 (basic version)**

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

**Order code: 21 20 60 (international version)**

Tests	$\lambda$ (nm)	Display	Range	Resolution	Method
<b>Alkalinity, Total-M</b>	610	CaCO <sub>3</sub>	5 – 200 mg/l	1.0 mg/l	Acid/Indicator
<b>Bromine</b>	530	Br	0.05 – 13 mg/l	0.01 mg/l	DPD
<b>Chlorine (free)</b>	530	Cl <sub>2</sub>	0.02 – 6 mg/l	0.01 mg/l	DPD
<b>Chlorine (total)</b>	530	Cl <sub>2</sub>	0.02 – 6 mg/l	0.01 mg/l	DPD
<b>Copper</b>	560	Cu <sup>2+</sup>	0.05 – 5 mg/l	0.01 mg/l	Biquinoline
<b>Cyanuric acid</b>	530	Cys	2 – 160 mg/l*	1.00 mg/l	Melamine
<b>Hardness, Calcium</b>	560	CaCO <sub>3</sub>	50 – 900 mg/l	1.0 mg/l	Murexide
<b>Ozone</b>	530	O <sub>3</sub>	0.02 – 1 mg/l		DPD/Glycine
<b>pH-Value</b>	560	pH	6.5 – 8.4 pH	0.01 pH	Phenolred

## 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.

## PoolControl 9in1 – UK-version

The instrument and tests are identical with the PoolDirect 9in1, but supplied with UK charger. Alternative keypad!

**Order code 21 20 00**

**Order code: 21 20 05 (basic version)** with batteries instead of rechargeable batteries, without mains charger and PC connection cable



## Reference Standard Kit

The reference standards are designed to check the accuracy and the reliability of the results. The following kits are available:

**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

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.

\* 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.

**Verification Standard Kit** 21 56 60