

# PoolDirect 9in1 Photometer

with single key parameter selection

Alkalinity-M (total)  
Bromine  
Calcium Hardness  
Chlorine  
Copper  
Langelier-Index  
Ozone  
pH-value  
Stabilizer (Cyanuric acid)  
Water Balance

## Highlights

- Dual Beam Technology with Interference filter
- Pre-programmed methods
- One Time Zero (OTZ)
- Interface
- Memory for 1000 data sets

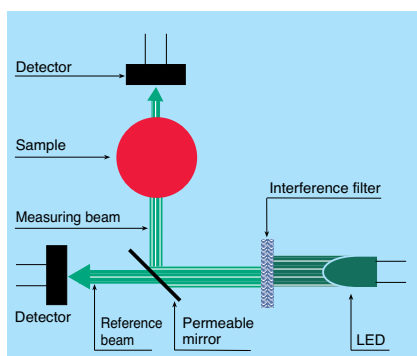


The 9in1 instrument is designed to provide the highest standards required by today's Pool Managers delivering Accurate, Reliable and Consistent results to control and manage swimming pool water quality. The single button selection of pre-programmed tests combined with on-screen instructions makes the 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.

## Zero Setting (OTZ)

This feature can be activated optionally by the user via the mode menu "Settings". It is no longer necessary to create a new zero before each test. This function makes it possible to carry out measurements more quickly and easily, particularly when choosing different certification methods. Once set, the zero figure is stored until the instrument is switched off (One Time Zero - OTZ). A new zero setting can be carried out at any time.

## Dual-Beam-Technology



## 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.

## Technical Data, Accessories & Data Transfer

identical with PoolDirect, see page 43

## 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 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 Chlorine** 21 56 25  
1.0\* and 4.0\* mg/l

**Reference Standard Kit pH** 21 56 15  
7.45\* pH

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

Tests	$\lambda$ (nm)	Display	Range	Resolution	Reagents
<b>Alkalinity-M (total)</b>	610	CaCO <sub>3</sub>	5 – 200 mg/l	1.0 mg/l	Alka-M-Photometer
<b>Bromine</b>	530	Br	0.05 – 13 mg/l	0.01 mg/l	DPD No.1
<b>Chlorine (free)</b>	530	Cl <sub>2</sub>	0.02 – 6 mg/l	0.01 mg/l	DPD No.1
<b>Chlorine (total)</b>	530	Cl <sub>2</sub>	0.02 – 6 mg/l	0.01 mg/l	DPD No.1 / No.3
<b>Copper</b>	560	Cu <sup>2+</sup>	0.05 – 5 mg/l	0.01 mg/l	Copper No.1 / No.2
<b>Cyanuric acid</b> , see Stabilizer					
<b>Hardness, Calcium</b>	560	CaCO <sub>3</sub>	0 – 500 mg/l	1.0 mg/l	Calcio H No.1 /No.2
<b>Ozone</b>	530	O <sub>3</sub>	0.02 – 1 mg/l		DPD No.1 / No.3 Glycine
<b>pH-Value</b>	560	pH	6.5 – 8.4 pH	0.01 pH	Phenolred Photometer
<b>Stabilizer</b>	530	Cys	2 – 160 mg/l*	1.00 mg/l	CyA-TEST



➔ Please see pages 48 onwards for reagents (order codes)

## Verification Standard Kit

The Verification standard kit for the PoolDirect 9in1 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

## Delivery Content

- Instrument in carrying case
- 7 rechargeable batteries
- Mains charger, 100-240 V
- PC connection cable
- 3 round vials 24 mm  $\varnothing$
- 1 syringe
- 1 plastic beaker 100 ml
- Guarantee sheet
- Certificate of Compliance
- Instruction Manual
- 100 tablet reagents for each test

Order code: 21 20 50