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Particle size and zeta potential analyzer Photocor Compact-Z



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Features

Photocor Compact-Z model are suitable for particle size and zeta potential measurements.

Particle size measurements in opaque dispersions are available in back-scattering mode.

Fast measurements and high reproducibility of results.

Simple procedure of sample preparation, small sample volume. Using various square and cylindrical optical cells including flow-through cuvettes.

High-sensitive APD photon counting system.

Different options are available that allows selecting the best instrument for your applications and budget.

Specifications

Measurement range	Particle size: 0.5 nm to 10 μm ¹ (diameter) Diffusion coefficient: 10^{-5} ... 10^{-10} cm^2/s
Accuracy	$\pm 1\%$
Sample volume	Particle size measurements: 50 μL to 4 mL (Zeta potential measurements: 1 mL to 3 mL)
Scattering angle	20°, 90°, 160° ² (for measurements in opaque samples)
Signal processing	Auto- and cross-correlation operation modes. Linear and logarithmic (multiple-tau) time scale. True real-time operation up to the fastest sample-time of 10 ns
Laser	TEC stabilized diode laser 638 nm, 25 mW ³
Thermostat	Temperature range: 5°C - 90°C, accuracy 0.1°C (thermoelectric module)
Zeta potential	Analysis methods: Electrophoretic light scattering (ELS), Phase analysis light scattering (PALS)
Dimensions / weight / power	300 x 360 x 144 mm / 8.7 kg / 100...220 V, 80 W

¹ - depends on the optical characteristics of the samples

² - available option

³ - other models are available upon request