PHOTOCOR

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Multi-angle dynamic and static light scattering instrument Photocor Complex

Photocor Complex are based on the static and dynamic light scattering (photon correlation spectroscopy). This technique is ideal for measurements of nanoparticle size, diffusion coefficient, and molecular weight of polymers in solutions. A



traditional design of the Photocor Complex is optimal for a wide range of applications: from simple industrial tests to the most advanced research tasks. Measurement procedure and powerful software are suitable for any level of users.

Features

Full-featured multi-angle dynamic and static light scattering, fast measurements, real-time size monitoring of nanoparticles

Modular architecture, rigid design, no optical table needed, easily configurable by user

Easy-to-prepare samples, suitable for various commercial sample cells and vials, replaceable index-matching vat system

Products

Multi-angle dynamic and static light scattering instrument Photocor Complex

Particle size and zeta potential analyzer Photocor Compact-Z

Particle size analyzer Photocor Compact

Miniature particle size analyzer Photocor Mini

Correlator Photocor-FC

Photocor software

Request a quote

Stepper-motor controlled turntable, compatibility with various APD photon counting systems

Unique flex-logic single-board correlator, linear and multiple-tau time scale, upgrade of hardware configurations

Original light-scattering geometry for particle sizing of opaque dispersions

Exceptional quality and reliability with all light scattering features for optimal price

Specifications

Measurement range	Particle size: 0.5 nm to 10 μm ¹ (diameter) Diffusion coefficient: 10 ⁻⁵ 10 ⁻¹⁰ cm ² /s Molecular weight: 10 ³ 10 ¹² g/mol		
Accuracy	±1%		
Sample volume	50 μL to 10 mL		
Scattering angle	10° 150°, accuracy 0.01°, stepper-motor controlled turntable		
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 - 100°C (thermoelectric module), accuracy 0.1°C		
Dimensions / weight / power	420 x 230 x 200 mm / 14 kg / 100220 V, 85 W		

 $^{^{\}mathrm{1}}$ - depends on the optical characteristics of the samples

Advanced Photocor technique for opaque dispersions

Photocor Complex custom design for University of Maryland

² - available option

³ - other models are available upon request