



Artisan Scientific

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BI-9000AT

Digital autocorrelator and photon counter for Dynamic and Static Light Scattering.



- Auto- & cross-correlation modes
- Sampling times 25 ns to 40 ms
- Real time. 100% efficient, real-time operation over entire delay time range
- Latest AT-compatible computer
- Includes Count Rate History
- Up to 522 channels, software selectable
- Delay range 25 ns to 1,310 s
- Single, AT-format card
- Up to eight cards can be addressed simultaneously
- Versatile Software: Includes Cumulants, NNLS, CONTIN, REPES, Williams-Watts, Generalized Exponential, Gaussian, Zimm/Berry/Debye plots.

Typical applications: particle sizing, molecular weights, gels, glass transitions, concentrated colloidal suspensions and polymer solutions.



More about the BI-9000 correlator....

The new BI-9000AT Digital Correlator has an adjustable delay range capable of producing a contiguous correlation function from 25 ns to 1,310 s representing a time axis that spans more than 10 decades in the standard configuration. The middle and low speed circuits can be operated as independent correlators, simultaneously processing different input signals. This can be used, for example, to correlate two light scattering signals from different detector angles simultaneously. Or, for crosscorrelating two signals originating from two different positions in a liquid.

An on-board microprocessor on each correlator card controls the circuits and collects the correlation function(s). This relieves the CPU of the host computer of many tasks and allows up to eight correlator cards to be run simultaneously in a single computer. And, unlike other correlators, the BI-9000AT requires no prescaling. Operating modes. The BI-9000AT digital correlator can be used for real-time operation in both auto- and cross-correlation modes. It is 100% efficient in either mode over the entire delay time range. Through the software, the user can select the number of channels, in either linear or constant ratio spacing, up to a total of 522 channels (including the 12, optional, 25 ns channels).

The BI-9000AT is available as a single AT-format card for installation into an AT-compatible computer. It is normally supplied with a state-of-the-art AT-compatible. The BI-9000AT can be used for a wide variety of applications including static and dynamic light scattering measurements.

Brookhaven offers a number of software programs suitable for use with the BI-9000AT and the BI-200SM laser light scattering goniometer system. These applications include particle sizing by dynamic light scattering (cumulants, NNLS, CONTIN, REPES, exponential sampling, double exponential, generalized exponential, Gaussian), characterization of gels and glass transitions (Williams-Watts), molecular weight measurements by total intensity methods (Zimm, Berry and Debye plots), and the BI-IST program used for alignment/stability purposes with the BI-200SM.



BI-9000AT Specifications

High Speed Section: 14 Standard Channels at: 100, 200, 300, 400, 500, 600, 800 ns, 1.0, 1.2, 1.4, 1.6, 20, and 2.4 ms . Plus 12 optional channels at: 25, 50, 75, 125, 150, 175, 225, 250, 275, 325, 350, and 375 ns.

Maximum Number of Channels: $240 + 256 + 14 + 12 = 522$

Delay Time Axis: User selectable (except fixed channels) from linear, constant ratio, or as individual time points recalled from user files by name.

Dynamic Range: Over 10 decades (25 ns to 1,310 seconds).

Operation Modes: Automatic and Manual. User definable macro commands to write, save, and recall unlimited number of sequences for single keystroke implementation.

Maximum Count Rate: 4×10^7 per second.

Standard Input Levels: TTL, 50 W input impedance, 5 ns minimum pulse width. Other levels via, optional, external converter.

Dimensions: Full AT-compatible Bus Card

Weight: 100 g, without computer.

Environmental Characteristics:

Temperature 10.0 C to 75.0 C

Humidity 0% to 95%, non-condensing

Options

BI-25NS: 12, 25 ns channels.

Printers: Specify model number for inkjet or laserjet.

BI-CON: Stepping motor controller.

BI-IST: Alignment/Stability Software.

BI-ZP: Zimm plot software

BI-ISDA: Particle size distribution software

BI-PCS: Simple Cumulants (DLS) Software.



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