

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
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- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *Wyatt Technology DAWN EOS WEOS-02* at our website: ***Click HERE***

DAWN® Eos
Enhanced Optical System



Light Scattering for the Masses™

The DAWN® Eos™ (Enhanced Optical System) is the newest member of the DAWN multi-angle light scattering instrument family for measuring the absolute molar masses and sizes of polymers and biopolymers in solution.

The Eos has an 18-angle light scattering geometry coupled with a specially-modified 30mW diode laser—all in a package that is a fraction of the size of our larger DAWN instruments. Moreover, with its "enhanced optical system", the Eos contains a laser whose beam profile and stability rival—and in many ways exceed—more traditional gas laser devices. The result is a product whose signal-to-noise ratio represents a significant improvement over the He-Ne laser-based DAWN.

Among its numerous advantages are:

- Greater laser power (30mW) for better sensitivity
- Simultaneous Multi-angle detection for greater precision
- Increased signal-to-noise (2 to 3 times better than the He-Ne DAWN)
- Small footprint for convenient stacking
- Easily interfaced with Alliance 2000 and PL 210 chromatographs
- Optional programmable temperature control (ramped heating and cooling)
- Fewer switches and greater computer control
- Nitrogen purge line for below-ambient applications
- Detachable auxiliary cables for straightforward setup
- Digitized forward laser monitor for absorbing polymers
- Simple to use flow-to-batch conversion kit

Wyatt Technology CORPORATION

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



With installations in more than 35 countries, Wyatt Technology is the pioneer and world's leading manufacturer of laser light scattering instrumentation for absolute macromolecular characterization. It is the only company in the world focused exclusively on such systems, their design, and their application.

Warranty

All Wyatt Technology instruments are guaranteed against defects in materials and craftsmanship for 12 months. Should any unit become defective due to normal use within the warranty period, Wyatt Technology will repair it at no charge, FOB Santa Barbara, CA.

DAWN, ASTRA, AURORA and the Wyatt Technology logo are registered trademarks of Wyatt Technology Corporation. All referenced trademarks are registered trademarks of their respective corporations. DAWN instruments are patented, and are covered by one or more of the following: U.S. Patent Nos.: 4,541,719; 4,616,927; 4,710,025; 4,907,884; 5,528,366; 5,475,235; European Patent No.: 0102726. Other patents pending. No part of this brochure may be reproduced in any way without written permission from Wyatt Technology.

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Specifications

Light Source	30 mW GaAs linearly polarized laser
Laser Wavelength	685 nm
Laser Lifetime	10,000 hours
Detectors	18 angles
Detector Resolution	16 bit
Mobile Phase Compatibility	All-solvent compatible (aqueous & organic)
Instrument Options:	Ultra-High (UHT) to 210°C; Heated/Cooled (HC) -15°C to 150°C. Autocorrelator (QELS) interfacing
Flow Cell Options:	K5 for solvent index less than 1.40 F2 for solvent index above 1.4
Scattering Volume:	0.5 µL
Signal Processing	6-pole Gaussian digital filter
Electronic Inputs:	2 differential analog inputs, independently gain-selectable 1x, 10x, 100x, or 1000x. Contact closure input for auto-injection.
Electronic Outputs:	1 single-ended analog output from 90° scattering, 0-10V
Molar Mass Range	≈ 10^3 to >10^8 g/mole (daltons)*
Molecular Size Range	≈ 10 to >500 nm*
Computer Interface	RS-232 serial port @ 9600 baud/19.2K baud
Processed Data Transmission Rate	2, 4, 8, 16 scans/second, jumper selectable
Front Panel Display	LED display of one of the following: Laser driver current, 18 light scattering detectors, 2 analog inputs, incident laser power (relative scale), set temperature (for temp. control options), cell temperature (for temp. control options), heated lines temperature (for temp. control options), transmitted laser power (relative scale)
Power	400W
AC Voltage	100-240 volts @ 50-60 Hz, selectable
Dimensions (cm):	58(L) x 36(W) x 25(H); 23″ x 14″ x 10″
Shipping Weight	23 kg. (51 lbs.)

* Depending on sample structure, sample concentration, and chromatography conditions.

Wyatt Technology CORPORATION

30 South La Patera Lane, B-7
Santa Barbara, CA 93117

Telephone (805) 681-9009
Fax (805) 681-0123

E-mail: info@wyatt.com
URL: http://www.wyatt.com

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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