BioSpectrum ASIA EDITION
the business of Bio & Health Sciences

Waters launches omniDAWNâ?¢ Multi-Angle Light Scattering (MALS) Photometer

April 14, 2026 | News

Delivers up to 4x faster chromatographic run times to accelerate decisions across discovery, development, and quality workflows



Waters Corporation has announced the launch of the Waters omniDAWN™ Multi-Angle Light Scattering (MALS) Photometer, part of the Wyatt Technology Portfolio.

Featuring 18 angles of detection, the omniDAWN Photometer is the first extended-range MALS detector for Ultra High Performance Liquid Chromatography (UHPLC) and Ultra Performance Liquid Chromatography (UPLC) workflows, delivering absolute molar mass and size measurements without compromising resolution or throughput.

The omniDAWN MALS Photometer extends UPLC-compatible sizing ten-fold, from approximately 50 to 500 nm in radius, enabling reliable characterization of larger, more complex analytes such as protein aggregates, viral vectors, lipid nanoparticles (LNPs), and advanced materials. Because it provides absolute molar mass and size, the omniDAWN Photometer reduces reliance on column calibration standards and supports faster results and more confident comparisons, streamlining work across biosimilarity studies, antibody-drug conjugate (ADC) characterization, and viral vector analytics.

As these modalities and other advanced therapeutics move into late-stage development and quality control, laboratories increasingly rely on UHPLC and UPLC Systems to meet rising throughput and resolution requirements.

Integrating seamlessly with Waters UPLC Systems and columns, the omniDAWN Photometer eliminates traditional trade-offs between dispersion, robustness, and analytical performance, delivering a complete solution for multi-attribute characterization with improved usability compared to microâ??volume MALS approaches.