

Shimadzu incorporates AI in new chromatograph series

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Shimadzu's new Nexera UHPLC series with AI and IoT enhancements sets industry standard for intelligence, efficiency and design. The Nexera series makes lab management simple by integrating IoT and device networking, enabling users to easily review instrument status, optimize resource allocation, and achieve higher throughput.

The Nexera UHPLC series maximizes reliability and uptime with fully unattended workflows that span from startup to shut-down. Operators can set the Nexera to start up at a specified time, so that it can complete auto-purge, equilibration, baseline checks and system suitability in advance, and be ready for analysis before they arrive at the lab. In addition, FlowPilot ramps up the flow rate gradually, reducing the possibility of damage to columns. The Nexera also has auto-diagnostics and auto-recovery capabilities that allow it to monitor pressure fluctuations to check for anomalies.

With remote mobile phase monitoring and integrated consumables management, the system maximizes uptime and reliability. Real-time monitoring of mobile phase levels allows lab personnel to efficiently run batches and respond accordingly if there isn't enough mobile phase before starting a run. In addition, Nexera tracks consumable usage and sends alerts when parts need replacing, allowing users to keep the system running at peak performance. The Nexera UHPLC series allows analysts to confirm parameters and monitor chromatograms in real time directly from a web browser on their smart device.