

# Shimadzu's New Nexera UHPLC Series with AI and IoT Enhancements Sets Industry Standard for Intelligence, Efficiency and Design

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Shimadzu Corporation announces the release of the Nexera Ultra High-Performance Liquid Chromatograph series, incorporating artificial intelligence as Analytical Intelligence, allowing systems to detect and resolve issues automatically.

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.

The Nexera's elegant, compact design saves valuable bench space. Because it uses over

80% less electricity when on standby, it significantly reduces running costs and supports an environmentally-friendly lab.

Key components of the Nexera UHPLC series include:

- Mobile Phase Monitor MPM-40
- System Controller SCL-40, CBM-40
- Absorbance Detector SPD-40 / SPD-40V and Photodiode Detector SPD-M40
- Solvent Delivery Unit LC-40 series
- Autosampler SIL-40 series / PLATE CHANGER
- Column Oven CTO-40 series

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Watch the video to find out more

[more on Nexera UHPLC series](#)

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