

Shimadzu launches smart device enabled HPLC system

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Singapore: Japan-based global analytics technology provider, Shimadzu, has launched i-Series of new industry standard HPLCs (High Performance Liquid Chromatograph) systems, with built-in touch panel and smart device, enabling a PC-free laboratory.

i-Series consists of Prominence-i, which supports conventional to high-speed analysis, and the Nexera-i, which supports ultra-high speed analysis. The integrated HPLC systems propose a new operating environment and a PC-free laboratory by enabling control of the instrument from a smart device, such as a smart phone, and via a newly developed Interactive Communication Mode (ICM).

Shimadzu highlighted that the i-Series offers an intuitive operating environment that allows anyone to analyse samples easily with full automation from start-up to shut down after analysis and a direct access function that allows multiple operators to set samples at any time, enabling an efficient workflow.

The company further mentioned that analysis methods created with existing HPLC systems including non-Shimadzu systems can be migrated to the i-Series which is suitable for a variety of analysis workflows, including R&D, quality control and safety testing in pharmaceuticals, chemicals, foods and environmental research.

The laboratory in which instruments are installed and the office in which day-to-day operations are performed are usually located far apart from each other. Consequently, analysts spend a great deal of time moving between both locations. The i-Series aims to improve the efficiency of the customer's workflow by realizing a PC-free environment that allows operators to control instruments and to check the system status and chromatograms from anywhere. The i-Series reflects customer requirements for improved performance, usability, and automation.

Interactive Communication Mode (ICM) feature integrated in the system is reported to enable operators to perform minimal operations to start an analysis via the instrument while the data acquisition is synchronized with LabSolutions workstation. Analysts can use a smart device to start analysis and remotely monitor system status and chromatograms without using any

special software. These features allow easy access to a system regardless of the operating environment, such as the operation of a system installed under a hood, in order to analyse highly active pharmaceutical ingredients.

i-Series is integrated with dual-temperature control function in the detector's optical systems to enable reliable data unaffected by room temperature fluctuation.