

T13. PAT-enabling hard- and software

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Industrial process monitoring and control in the pharmaceutical industry, commonly referred to as Process Analytical Technology (PAT), is a front-end application area for scientific and technical innovations. Optical, and specifically, Near Infrared (NIR) spectroscopy and multivariate data analysis are important components of the PAT technology.

J&M has an essential expertise in the development and practical application of special spectroscopic equipment for PAT. One of recent developments of the company is the Lighthouse Probe™ (LHP), a NIR probe (sonde) for the on-line monitoring of granulation, drying, blending, and similar processes is presented.

Data analysis along with the corresponding software is another inherent side of any PAT solution. Modern PAT practice creates a demand for a new software concept to replace the conventional expert-oriented approach. Some ideas on the new-generation process chemometrics software are discussed.