

Direct coupling of JASCO HPLC System with Thermo Finnigan MS instruments

JASCO Instrument Control Driver for Thermo Finnigan Xcalibur®

Xcalibur®

JASCO Instrument Control Driver

Thermo Finnigan™ mass spectrometer

JASCO HPLC system

LC/MS is an effective tool for mass identification of peaks in chromatograms during the process of drug discovery, bioanalysis, environmental analysis, etc. The JASCO Instrument Control Driver simplifies seamless coupling of JASCO HPLC system with Thermo Finnigan mass spectrometers and enables full system control in Thermo Finnigan Xcalibur data system environment. The system configuration and HPLC parameters can be easily set via user-friendly wizards. JASCO HPLC modules controlled are pulse-free pumps for isocratic and gradient, column ovens for temperature control, low-dispersion autosamplers for automation of large numbers of samples on microplates, and high-sensitivity UV/Vis detectors for single or multiple wavelengths.

The JASCO Instrument Control Driver is backwards compatible to previous generations of JASCO HPLC including LC-900 and LC-1500 series as well as controlling the latest instruments in the LC-2000 series.

JASCO HPLC System



LC-2000Plus series
High pressure gradient system



LC-Net II Box

Thermo Finnigan MS Instrument

LCQ™ Deca XP Plus ion trap MS



TSQ® Quantum
Discovery
triple quad MS

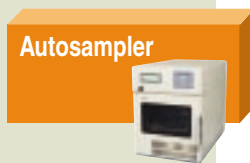
JASCO Instrument Control Driver

The Instrument Control Driver enables Xcalibur to control JASCO HPLC devices including, pumps, autosamplers, column ovens, UV/Vis detectors and to collect chromatograms from optical detectors in addition to data from the MS.



Pump

PU-2080/2085/2086/2087
PU-1580/1585/1586/1587
PU-980



Autosampler

AS-2055/2057/2059
AS-1550/1555/1559
AS-950



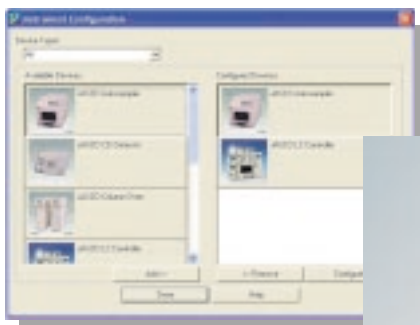
Oven

CO-2060/2065
CO-1560/1565
CO-965



Detector

UV-2070/2075/2077
UV-1570/1575/1570M
UV-970/975



The Instrument Setup component allows easy access to all configurable MS detector and instrument method parameters with the click of a button. All the HPLC components can be directly accessed to define separation parameters including gradients and timed events for each instrument (eg flow programming or contact closure for column switching).



Thermo Finnigan Xcalibur®

Xcalibur software is a flexible data system that provides instrument control and data analysis for the Thermo Finnigan mass spectrometers and related instruments. By adding the JASCO Instrument Control Driver, it enables the user to build a complete LC/MS system seamlessly coupling the mass spectrometer with JASCO HPLC instruments to perform a wide range of applications. This is especially important for JASCO's range of low flow rate instruments, which can really benefit the user for analyses where micro and nano bore applications are required.



The starting point for all Xcalibur functions is the Home Page. From here the user can easily navigate to Instrument Setup, Sequence Setup, Processing Setup and Results Review pages. These components incorporate all functions including mass calibration and automatic tuning of the MS detector, the setup of HPLC parameters, design of experiments, creation of qualitative and quantitative processing methods, and the review of results.

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- Specifications are subject to change without notice.



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