

# High Performance Liquid Chromatography



## LC-1620 System

### High-performance for long time operation

- LC-1620 system incorporates advanced and innovative design elements which endow it high reliability and accuracy for long time operation. The working mode of LC-1620 pump is in-parallel. It offers improved accuracy and duration in LC-1620 system. The flow cell of LC-1620 detector is also redesigned and optimized, which offers excellent S/N ratio performance.
- The whole design and manufacturing process is performed by Chinese engineers. From manufacturing to installation, the system arrives from the factories with strict validation and test. Its innovative design, engineering and manufacturing features translate into the high accuracy, reliability and quality.

LC-1620 Pump	Flow rate range	0.001-9.999 mL/min
	Flow rate accuracy	$\leq \pm 0.5\%$ (1 mL/min, water, room temperature)
	Flow rate stability	RSD $\leq 0.08\%$ (1 mL/min, water, room temperature)
	Peak operating pressure	45MPa
	Power source	110V/220V

### Flexible Configuration

- LC-1620A system offers analytical flexibility. It provides a comprehensive selection that can be combined to make up a variety of systems for different demands.

### Choice of pumping system

- Isocratic system
- High-pressure binary gradient system

### Choice of detection system

- UV Detector for routine analysis
- RID for universal detection in isocratic analysis, especially necessary in GPC system
- ELSD for universal detection, especially necessary in standard methods in pharmacopeia of China

### Features and benefits

- All maintenance parts are accessible from the front panel for quick replacement without disassembling instrument.
- The monitoring system will stop the pump if pre-limit pressure is exceeded
- All components are controlled intelligently in workstation
- On line detect all signal curves, such as the pressure curve, gradient curve and solvent consume warning
- The interface is open design that it is compatible with other universal workstation.

LC-1620 UV Detector	Lamp	D <sub>2</sub>
	Wavelength range	190-700nm
	Baseline noise	$\leq \pm 0.8 \times 10^{-5}$ AU
	Baseline drift	$\leq 1 \times 10^{-4}$ AU/h
	Limit of detection	$0.4 \times 10^{-8}$ g/mL (Naphthalene/methyl alcohol solvent)
	linearity range	$\geq 10^4$
	Wavelength repeatability	0.1nm
	Wavelength accuracy	$\pm 1$ nm
	Power source	110V/220V