# NWspec LC-6000 Smart HPLC System

## Overview

The LC-6000 is a smart, modular HPLC system designed for high-performance gradient separations. Combining a precision P6000 binary pump, UV6000 variable wavelength detector, and an intelligent system controller, this system ensures stability, durability, and simplicity in operation—ideal for routine and advanced applications.

## Key Features

• Smart Control – Integrated environmental monitoring, VP logging, and GLP/GMP compliance features.

• Precision Pumping – Dual-plunger, low-pulsation binary pump with flow accuracy ±0.5%, max pressure 9999 psi.

• High-Performance Detection – Dual-beam UV–Vis detector with wavelength range 190–700 nm, high sensitivity and low drift.

• Reliable Chromatography – Uniform mixing and reproducible baselines, ensuring analytical precision.

• Modular Design – Upgrade options include RI, FLD, DAD, ELSD detectors.

• Software Compliance – Compatible with Clarity and AutoChro software, 21 CFR Part 11 ready.

## Technical Highlights

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| Component | Specification Summary |
| Pump | Flow range 0.001–9.999 mL/min, ±0.5% accuracy, ≤0.2% RSD, max pressure 9999 psi, gradient capable. |
| Detector | 190–700 nm range, ±1 nm accuracy, low noise <0.75×10⁻⁵ AU, drift <1×10⁻⁴ AU/h, 8 μL cell, 10 mm path. |
| Chassis | Dimensions: 290×130×420 mm, Weight: 11 kg, Operating temp: 4–40 °C. |
| Software | Clarity/AutoChro 3000, audit trails, electronic signature, multi-device control. |