**Smart CannaLC**

Complete, Portable High Performance Liquid Chromatography System for Analysis of Cannabis Extracts

The **Smart CannaLC** instrument offers a complete HPLC system, with all the functionality required by any laboratory, packaged in portable, ergonomic hard shell case, specifically designed to test the purity of your cannabis extract. The **Smart CannaLC** system is rugged and compact, and includes in the enclosures: Pumps, Fluid Path, Manual Injector, Column Compartment, High Performance Detector and Tablet PC with full instrument control and data acquisition software (pre-installed and tested).

Additional features are: On-Board Reagent, Wash and Waste Containers, External USB Ports, 100 – 240 VAC Power Source, Automotive Power Jack, and Storage Compartment for power sources, injection syringe and sample prep items.

The **Smart CannaLC** is easy to service with all major components (Pumps, Detector, Injector and other key parts) easily accessible for service or swap-out replacement. A hinged door on the main module allows access to interior components and the internal chassis is readily removable with two fasteners and quick disconnect electrical and fluid fittings.

The **Smart CannaLC** is designed and built for consistent performance and reliability. Automatic Piston Wash with on-board wash bottle, provides extended pump seal life. Reagents are filtered to prevent fluid clogging. Pump seal change, filter replacements and other maintenance items are trouble-free with easy access to Pumps and other components. The Injection Valve has a replaceable sample port and an external injection loop. The system has rugged fittings on all bottles and fluid path connections to prevent leakage during system transport.

- Compact, Low Cost and Mobile
- Fully Featured HPLC
- 214 nm fixed Wavelength Detector
- Manual Injector with Replaceable Injection Loop
- Binary High Pressure Gradient Pumps
- On Board Reagent and Waste Bottles
- Tablet PC with Installed Control Software
The **Smart CannaLC** has been used to test the quality and purity of cannabis extracts prepared using supercritical fluid extraction equipment. The need for pharmaceutical grade cannabis oil has increased as researchers continue to investigate the application of cannabis oil for the treatment of various ailments such as muscle spasms, glaucoma, nausea, mood and behavioral disorders, sleep disorders, and chronic pain. With a myriad of cannabinoids present in the marijuana plant that can be used to treat a range of ailments and conditions, the investigation into producing a more effective extraction method and purer product has just begun.

Supercritical Fluid Technologies, Inc. is a manufacturer of a wide range of supercritical fluid extraction systems for researchers who want to produce a high quality of Cannabis extraction products through the use of an efficient, green supercritical fluid carbon dioxide (scCO₂) extraction process.

**Interactive User Interface**

- Dell Venue 8 Tablet PC
- Windows 10 Operating System
- Clarity Instrument Control & Data
- Binary High Pressure Gradients
- Simple New Method Development
- Automatic Peak Detection
- Automatic Area Integration
- Detector Zero and Calibration
- Comprehensive Report Generation

**Smart CannaLC Physical Specifications – Main Module**

- Dimensions: 16.20" x 12.70" x 6.60" (L x W x H) - completely enclosed in Pelican Case
- Weight: 25lbs (11.3Kg)
- Electrical: 100-240VAC, 50/60Hz; or 12VDC Power Source (3.0A)

**Smart CannaLC Detector Physical Specifications**

- Dimensions: 10.62" x 9.68" x 6.87" (L x W x H) - completely enclosed in Pelican Case
- Weight: 7 lbs (11.3Kg)
- Electrical: 100-240VAC, 50/60Hz

**Smart CannaLC Optional Items**

- Higher Flow Pumps and Isocratic Models
- 255nm, 280nm, and 415nm Wavelength Detectors Available(interchangeable)
- Custom Software and Applications
- Battery Pack for 9 hours of continuous operation in the field
- 12-Volt Automobile Adaptor for operation in the field