



LightLab³
by Orange Photonics



HEMP THC COMPLIANCE MODULE

REDUCE YOUR RISK. MONITOR THC ON-SITE.

THC content is everything when it comes to hemp. The LightLab 3 Hemp Compliance Module is an optional add-on that allows cultivators, processors, and regulators to easily audit THC levels themselves, in real-time. As a mobile-HPLC, LightLab brings accessible, on-site cannabinoid analysis to your fingertips.

CULTIVATORS

LightLab's Hemp THC Compliance gives you the information you need to harvest at the right time; when cannabinoid harvest is at its peak, but in advance of crossing the THC threshold. This information can contribute to cultivar selection, cultivation inputs, sale price determination and remove the risk crop forfeiture.

PROCESSORS

Coupling the Hemp THC Compliance feature with the LightLab's standard analytical capabilities lets you assess both the value and compliance of hemp biomass before you purchase or process the material by measuring the CBD, THC and other cannabinoid levels.

REGULATORS

Enhance throughput of pre-harvest compliance testing with LightLab's sensitive THC testing capabilities. Simply collect, dry and homogenize hemp samples in accordance with your regulatory requirements.

REAL-TIME SAMPLE ANALYSIS

LightLab uses the same techniques as a cannabis laboratory- High Performance Liquid Chromatography (HPLC). This analytical technique separates cannabinoids in the sample before quantification, resulting in high confidence and accuracy. The final analysis produces a report that presents the weight percent for each of the detected cannabinoids.

MODULE TESTING CAPABILITIES

- Δ 9THC (Delta 9 Tetrahydrocannabinol)
- THC-A (Tetrahydrocannabinolic Acid)
- Total Potential THC
- 0.05% - 3.0%
- Dry plant material

FEATURES

- Results in under 12 minutes
- Intuitive touchscreen interface
- No training required
- Easy sample preparation
- 8-hour battery life



LIGHTLAB IN THE FIELD

“I constantly keep my finger on the pulse of the industry to find better ways to identify individuals high in CBD and low in THC to keep seed lines compliant with regulatory requirements.”

JOHN BAKER

CBD Baker, Stirling, Ontario



LIGHTLAB SPECIFICATIONS

Dimensions	18.5 x 6.9 x 14.1 inches
Weight	13.5 pounds
Power Requirements	18V, 1.5A (120-240 AC Adapter included)
Battery Life	8 hours, Rechargeable Lithium Ion, 14.8V 4400mAh
Interface	7" touch screen
Access	Wi-Fi
Results	On-screen, CSV (excel compatible), text, email
Standard Analytes	Δ 9THC, THC-A, CBD, CBD-A, CBN, CBG, CBG-A
Minors Module	CBN-A, CBC, CBC-A, Δ 6,10a-THC
Hemp Compliance Module	Δ 9THC, THC-A, Total Potential THC, Dry Plant Range 0.05-0.3%
Terpenes Module	Total Terpenes (semi-quantitative)
Measurement Time	8.5 minutes (2 minute zero)
Sample Preparation	Simple solvent extraction
Products Measured	Plant, concentrates, biomass, young plant, processed waste, tinctures, isolate, infused products. Contact us about edibles.
Sample Size	\leq 1 g
Warranty	1 year, extended options available



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