



LightLab³
by Orange Photonics

Cannabis
Analyzer

Lab Accurate.
In-House.
In Orange.



LIGHTLAB IS THE MOST COST EFFECTIVE WAY TO BRING LAB-QUALITY TESTING IN-HOUSE.

Margin Management

With on-site testing capabilities, managers can make timely data-driven decisions about operations, compliance and product value.

Quality & Compliance

From supply chain management to process control, fast cannabinoid analysis helps you identify loss, optimize process and bring product to market faster.

Research & Development

Accelerate phenotyping, breeding, and formulation development with a purpose built HPLC. Increase your competitive advantage with fast CoAs.

Δ9-THC | THC-A | CBD | CBD-A | CBN | CBG | CBG-A | CBN-A | CBC | CBC-A | Δ8-THC | Δ10-THC
THCV-A | THCV | Δ9-THC-O Acetate | Δ8-THC-O Acetate | Δ9-THCP | Δ8-THCP | HHC

CHANGE THE WAY YOU TEST

Orange Photonics' LightLab 3 Cannabis Analyzer is a purpose-built, portable, HPLC capable of quickly and accurately determining the content of nineteen cannabinoids and semi-quantitative terpenes in almost any cannabis-containing product. Utilizing the same liquid chromatography technique favored by nearly all cannabis laboratories, LightLab 3 is an economical way to bring laboratory analysis into your facility.

TRACK. SHARE. COMPARE

Track test progress from your mobile device, share test results with managers or buyers and generate a Certificate of Analysis complete with authenticity verification controls. Test data may be exported as a CSV file for easy data handling. Use test data to compare rooms, harvest at peak, optimize extraction, ensure THC compliance in hemp products, validate biomass CoAs and pre-test before third party analysis.

CALL US FOR MORE INFO



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CERTIFICATE OF ANALYSIS

Scan this QR code to view a LightLab 3 Certificate of Analysis (CoA) for a THC dominant plant sample. Every LightLab 3 CoA bears a permanent QR code which provides an indelible record of the test. If you scan the QR code on the CoA itself you will be able to view, download and share test results.

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 Type	Lithium Ion, 14.8V 4400mAh
Battery Life	8 hours, rechargeable
Interface	7" touch screen
Data Access	Wi-Fi
Results	On-screen, CSV, CoA, Result Dashboard webpage, text, email
Standard Analytes	D9THC, THC-A, CBD, CBD-A, CBN, CBG, CBG-A
Minors Module	CBN-A, CBC, CBC-A, D8-THC, D10-THC, THCV-A, THCV
Converted Module	D9-THC-O Acetate, D8-THC-O Acetate, D9-THCP, D8-THCP, HHC
Hemp Compliance Module	D9THC, 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
Sample Size	≤ 1 g
Warranty	1 year, extended options available



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