



EN-SCAN

LABRADOR Handheld Gas Chromatograph

The EN-SCAN Labrador Handheld GC brings laboratory-grade gas chromatography directly to the field, allowing environmental professionals to detect VOCs and contaminants in air, soil, and water within minutes. Built for real-time, on-site analysis, it eliminates dependence on slow and costly off-site labs, helping teams respond immediately to contamination risks, maintain compliance, and make defensible decisions faster. With parts-per-billion sensitivity and results in as little as 4.5 to 15 minutes, it provides actionable data before delays escalate into regulatory fines, environmental damage, or loss of community trust.

Designed for harsh and demanding environments, Labrador Handheld GC operates reliably in heat, cold, dust, and high-humidity conditions. Its touchscreen interface, intuitive workflows, and auto-calibration minimize operator error and allow users to become proficient in 30 minutes or less. By reducing lab delays, transport costs, downtime, and expedited testing needs, EN-SCAN delivers fast, rugged, cost-efficient environmental monitoring for oil & gas, chemical plants, remediation zones, and industrial operations.



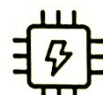
Core Benefits

- Real-time on-site analysis of VOCs with parts per billion (ppb) level sensitivity
- Rugged and reliable operation in extreme environments
- Easy-to-use interface with auto-calibration and rapid operator training



Why It Matters

- Off-site lab delays lead to fines, environmental harm, and higher cleanup costs
- Slow or inaccurate detection risks undetected VOC events and community impacts
- Immediate, defensible data supports compliance and faster mitigation



Technology Advantages

- Handheld GC delivering lab-quality chromatographic results in minutes
- Built to withstand heat, cold, dust, humidity, and remote conditions
- Eliminates most external lab testing, lowering total monitoring costs



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Technical Specifications



DETECTION TECHNOLOGY

APPLICATION	Trace level detection of VOCs	
DETECTOR	Photoionization Detector	
SENSITIVITY	ppb or ppbv	
IONIZATION	10.6 eV	
DYNAMIC RANGE	2 orders of magnitude	
Chemical Name	Vinyl Chloride	2-Methylnaphthalene
MW (g/mol)	62.5	142
VP at 25° C	2980	0.055
BP at 1 atm. (°C)	-13.3	241

PERFORMANCE

ANALYSIS TIME	≈ 10 minutes
WARMUP TIME	5 minutes
CALIBRATION	Up to 3 weeks
STORAGE CAPACITY	>650,000 analyses
FIELD ADAPTABILITY	Easy to use for air, water, and soil

PHYSICAL SPECIFICATIONS

WEIGHT	Base Unit	6.80 kg (15 lb)
	FLEX Battery	1.03 kg (2.27 lb)
	BU with P&T, Bottle, Battery	8.61 kg (18.98 lb)
	BU with Air Sampler, Battery	8 kg (17.64 lb)
DIMENSIONS	29.2cm W x 41.7cm D x 40.4cm H (11.5" W x 16.4" D x 15.9" H)	
OPERATING TEMP	0 to 50°C	
OPERATING HUMIDITY	~95% non- condensing	

SYSTEM FEATURES

DISPLAY	7" Sunlight Readable Capacitive HDMI TFT LCD Module
POWER	24 V, 6Ah battery or 24 V DC supply
BATTERY RUN TIME	4 hours
AIR SAMPLING	Thermal desorption
WATER/SOIL SAMPLING	Purge and trap



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