



SciAps Z-901 Lithium Specifications

SciAps Z Series is the world's only handheld analyzer offering in-field, instant analysis of lithium in rocks, ores, powders, and brines — in use globally for lithium exploration projects, with no travel restrictions or licensing headaches.

One Box



Pair Z-901 Lithium with our industry-leading XRF unit and get optimal analysis across every element in the periodic table and every sample type.

XRF

Great for transition and heavy metals. Easy to use especially on bulk, soil, and ore type materials.

LIBS

Analyze elements XRF can't test: Li, Be, B, C, F, Na and more. Improved performance on Mg, Ca, K compared to XRF Microanalysis capability with 100 um laser spot size. SciAps Z-902 Lithium analyzer offers an extended spectrometer range for those users who need to additionally measure boron, magnesium, sodium, and perhaps other metals in brines.

For more information, or to schedule a demonstration:

SciAps.com
+1 339.927.9455

SciAps



World's only handheld analyzer for lithium in soils, ores and brines.

Exacting elemental analysis

Purpose-built handheld LIBS for measuring lithium in rocks and brines. Factory calibrated for lithium in pegmatite, clays and micas, including relevant base elements in the 350-675 nm range. SciAps also offers the Z-902 Lithium, containing a second spectrometer to extend the analytical range down to 210 nm for users testing brines for other elements, including boron, magnesium, calcium, and potassium.

Intuitive operations

Android operating system and app-based software assure quality testing by every operator. Built-in Wi-Fi and Bluetooth, with GPS capability, allow users to print, email, and connect to virtually any information management system for full-featured reporting. Automatically merge XRF and LIBS tests with SciAps Cloud Services, and easily manage operations from anywhere.

Designed for field and lab

SciAps LIBS series handheld analyzers, at just 3.5 lbs. (1.6 kg) with battery, have an internal camera for precise targeting of analysis locations; a macro camera for photo-documentation of samples, reading bar codes and QR codes; a patented "sample sensor" that allows Class 1 operation (subject to LSO approval); high-resolution, rear-facing display for easy viewing; rugged metal body for maximum durability; a tapered, narrow snout for difficult-to-access test locations; and user-replaceable argon that provides hundreds of tests at pennies per test. Pair with Profile Builder software for PC or tablet and achieve full benchtop functionality.



**A dedicated
handheld LIBS
for lithium
measurements**

SciAps Z-901 Lithium Specifications

Weight	3.87 lbs. with battery
Dimensions	10.75" x 2.375" x 8.625"
Display	2.7" high brightness, color touchscreen, readable in all lighting conditions. Rear facing display for easy results viewing.
Power	On-board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power.
Processing electronics	ARM Quad Cortex -A53 1.2 GHz Memory: 2 GB LPDDR3, eMMC 16 GB
Data storage	Results Storage: 32 GB SD card
Connectivity	Built on Google's Android platform for real-time data exporting, including built-in WiFi (IEEE 802.11b/g/n), Bluetooth (BR/EDR+BLE), GPS and USB-C to connect to virtually any information management system.
Sample viewing	Integrated camera and laser target indicator for viewing sample before and during analysis for proper sample alignment. Includes second "macro camera" for scanning QR or bar codes and for photo-documentation and report generation.
Laser raster	On-board Y stage for rastering laser to discrete locations for targeted analysis or averaging.
Atmosphere	SciAps proprietary Opti-Purge provides an inert argon environment improving spectral signal to noise ratio and improving performance in the UV range.
Calibration check	316 stainless steel standard for automated calibration and wavelength scale validation.
Drift correction	On-board automated drift correction software with factory-provided or user-provided reference materials.
Regulatory	CE, RoHS, USFDA registered. Class 3b laser. Sample sensor on board, allows for operation under Class 1 conditions, subject to local LSO approval.
Spectral range	350–675 nm
Calibrations	Li in pegmatites, Li in clay, Li in mica-schists. Additional matrix matched calibrations can be built by operator using Profile Builder software for PC and tablet.
Security	Password protected; Multi-user support with configurable access settings

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