

Highest Performance LIBS Analyzers

Features Unique Dual-Burn Technology

Air-burn for fast material sorting and screening

Argon-purge for precision and superior limits of detection



SciAps

Elemental Analysis

Alloys – Mining – Environmental – Forensics – General Analytical Analysis





The Z-900 Series

A nicely loaded LIBS system designed for usability, durability, and safety

Full range of applications, from basic material sorting and screening to exacting elemental analysis.

Z-901

Alloy Analysis

SciAps offers the only LIBS-based alloy analyzer operable in a “dual burn” test setup.

QuickSort

Air-Burn for rapid material sorting or grade identification.

Alloy

Argon-Purge for high precision and improved detection limits. Many customers use argon-purge to analyze and sell mill-ready aluminum scrap. Quantify low ppm levels of beryllium, boron and lithium.*

	0.494%	0.044%	0.45
Mg	0.494%	0.044%	0.45
Al	98.68%	0.290%	94.8
Si	0.439%	0.065%	0.20
Ti	0.024%	0.006%	0.00
Cr	0.021%	0.006%	0.00
Mn	0.062%	0.016%	0.00



Choose Alloy or QuickSort

In 1-2 seconds, Z-901 provides alloy chemistry, grade, and specification data

*The Z-902 model with two spectrometers is required to measure lithium emission at 610 nm. See reverse for more information on models and range.



High-resolution display
rear-facing display for easy viewing



Intuitive Android
operating system, with app based software

Mining, Exploration, and Environmental Applications

LIBS complements handheld XRF because it is especially good at measuring low atomic number elements — including those too light for handheld XRF.

- Lithium** • in ores and brines.
- Light elements** • full suite of light elements in soils and ores including Li, Be, B, C, F and Na.
- Organic carbon** • total organic carbon in agricultural applications.
- Beryllium** • in soil or other materials as an environmental contaminant.

More Applications Forensics, Quality Control, Research, Education

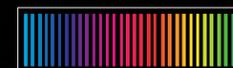
The Z-900 Series features our desktop/tablet ProfileBuilder software package to add elements, create calibrations and apply advanced spectral processing.

- Develop** • test methods for unique analytical or quality control needs.
- Academic** • tool for researchers and students alike – LIBS does not use X-ray radiation or its accompanying regulations.
- Forensics** • Small spot analysis (100 um) and ProfileBuilder yield a powerful, highly versatile field analytical technique.

Be
Beryllium
The Z is currently used at multiple government facilities for beryllium screening and clean-up



LIBS sensor



Advanced spectrometer design for high resolution and wide range.

Internal camera
precise targeting of analysis location.

Macro camera
photo documentation of samples, reading barcodes and QR codes.

Report generation
full-featured, with available cloud data management and reporting.

Narrow snout
tapered for welds or difficult-to-access test locations.

Laser safety sensor
patented sample sensor allows Class 1 operation, subject to LSO approval.

Rugged metal body
Maximum durability and minimal service costs.

Z-900 Series Models

Model	Spectrometers	Range	Elements Analyzed ^{1,2}
Z-901	1 spectrometer	200 – 420 nm	Factory calibrated with suites of 15-20 elements, app dependent. For some elements, model 902 or 903 is required.
Z-901 CSi	1 spectrometer	190 – 240 nm	Analyzes carbon and silicon only. The perfect complement to your XRF.
Z-902	2 spectrometers	190 – 625 nm	Adds emissions for Li, Na
Z-903	3 spectrometers	190 – 950 nm	Adds emissions for H, F, N, O, Br, Cl, Rb, Cs and S

¹ Every element is not necessarily factory-calibrated. Factory calibrations are provided for a set 15-20 elements depending on the application.

² "All elements" excludes unstable and radioactive elements. Detection limits vary greatly by element and sample type.

One Box

Pair any Z Series 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.



FEB2021

SciAps Inc.
Sciaps.com
7 Constitution Way
Woburn, MA 01801
sales@sciaps.com

EndoMatrix (M) Sdn Bhd
No. 51-5, Block G, Dataran Prima, Jalan PJU 1/37,
47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia.
Phone: +6018 280 1682 | Fax: +603 7803 1147
sales@endomatrix.com.my | www.endomatrix.com.my



YouTube.com/SciAps

+1 339.927.9455

SciAps