SEE VIDEO http://goo.gl/EmIBKp

SciAps Z Series
Specifications

The most advanced, most precise laser-based (LIBS) analyzer available.

The Z uses the LIBS technique – laser induced breakdown spectroscopy. Like OES, LIBS delivers very accurate chemistry provided it's operated in an argon purge environment, although it is available with a lower cost air-burn option.

New
Z Series **LIBS**

The Z Models

The Z-200

Spectral range 190 nm to 625 nm, 5-6 mJ/pulse, 50 Hz laser, argon purge. The Z-200 offers in-field analysis of key elements Li, Be, C, B, Na, Mg, Al, Si, Ca in addition to transition and heavy metals. The Z-200 analyzes may be calibrated to measure every element EXCEPT H, F, Br, Cl, O, N, Rb, Cs, S.

The Z-300

Full periodic table coverage. Spectral range 190 – 950 nm, 5-6 mJ/pulse, 50 Hz laser, argon purge. The Z-300 analyzes every element in the periodic table, including elements not available on the Z-200 including H, F, S, Br, Cl, O, N, Rb, Cs

The Z-50

Our basic air-burn analyzer. Operates in an air, rather than argon-purge environment. You can upgrade any Z-50 to an argon-purge version at any time.

Unique Features of the Z

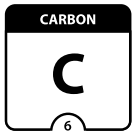
Most Powerful Laser

High speed laser cleaning shots. Eliminates most surface sample prep.

Argon Purge. Precision and detection limits improve by up to 10x with argon purge.

Eliminates bad burns. On-board camera and laser targeting eliminates poor quality "burns,"

Android OS and Data SHARE Apps. Share data direct to phone, sync with any computer globally, print to wireless printers. Eliminate inefficient data downloading forever



CARBON!

You want to measure carbon in alloys, and the Z is the only handheld analyzer on the planet that accomplishes this.

Also from SciAps

The X, our industry leading family of handheld XRF analyzers.

The **"One-Box"** - Analyze any element in the periodic table, any sample type, with optimal performance.

SciAps.com
For more information, or to schedule a demonstration.
339.927.9455

SciAps

SciAps Z Series LIBS
Specifications

The most advanced, most precise laser-based (LIBS) analyzer available.

Weight	4 lbs with battery
Dimensions	8.25" x 11.5" x 4.5"
Excitation Source	5-6 mJ/pulse, 50 Hz repetition rate, 1064 nm laser source.
Spectrometer/Range	Multiple CCD based spectrometers: Z-200 range 190 nm – 625 nm, Z-300 range 190 nm – 950 nm.
Available Apps	Alloy, Geochem (Mining), Empirical, Environmental Apps. New Apps are added regularly please check with company or website.
Spectral Data Acquisition	Spectral data collected in either ungated or gated operation, with user settable gate delays
Operation/Argon Purge	On-board, user replaceable argon cartridges for operating in argon purge environment. Air-based operation optional. Argon canister provides approximately 600 tests before replacement.
Analytical Range	Z-200: One or more lines from all elements except H, F, Cl, Br, N, O, Rb, Cs, S. Z-300: One or more lines from all elements in periodic table.
Laser Raster	On-board XY stage for rastering laser to discrete locations for targeted analysis or averaging. Raster pattern up to 16 x 16 grid, 256 locations.
Processing electronics	ARM Cortex -A9 dual-core / 1.2 GHz Memory: 1 GB DDR2 RAM, 1 GB NAND
Auto-focus	Z-direction stage, computer controlled for manually or automatically adjusting laser focus location on sample. Essential for liquids analysis.
Power	On board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power.
Display	5" color touchscreen Smartphone type display - PowerVR SGX540 3D graphic
Data Storage	Results Storage: 8 GB SD
Comms/Data Transfer	Wifi, Bluetooth, USB. Connectivity to most devices, including SciAps ProfileBuilder PC software.
Sample viewing	On-board camera/video for viewing sample before, during analysis, laser spot finder to show where laser strikes sample.
Apps	Alloy, Geochem factory calibrated, Empirical App for user-generated calibrations, ElementPro for qualitative analysis of any sample.
Calibration check	Internal shutter is also 316 stainless for totally automated calibration and wavelength scale validation.
Drift Correction	Only needed for higher accuracy analysis (argon purge). Automated drift correction using factory provided or user provided reference materials.
Grade library (alloy)	500+ grades, multiple libraries supported, grades may be added on analyzer or via PC software package (ProfileBuilder).
Security	Password protected usage (user level) and internal settings (admin).
Regulatory	CE, RoHS, USFDA registered. Class 3b laser. Sample sensor on-board, allows for operation under Class 1 conditions, subject to local LSO approval. CE, RoHS, USFDA registered.

Standard Accessories

Waterproof carrying case, 2 Li-ion batteries, charger, USB cable, Standard ProfileBuilder software for importing, editing alloy grade libraries (alloy App), viewing, saving results, data display. Wrist strap, Factory start-up training and support, Lifetime free software upgrades, Spare Prolene windows.

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