SciAps

SciAps Z 902C+ Premium Analyzer

DESCRIPTION:

Z-902 Carbon: A new industry standard

The key to rock solid, in-field carbon analysis for alloys.

- Identification of stainless steels and low alloy steels, including carbon analysis down to 70 ppm and instant CE (carbon equivalents) calculations.
- Powerful laser, on-board argon purge and high resolution spectrometer are built for carbon.
- Narrow profile for accessing the tightest spaces, aerospace-grade aluminum body for improved performance in high ambient temperatures, and re-designed user-interface. The most usable platform on the market, at only 4.35 lb. (1.97 kg).

Spectrometer range 190 nm – 420 nm. Includes a second, dedicated spectrometer for superior resolution in the 190 – 230 nm range for carbon.

FEATURES:

- 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-acces test locations
- Laser Safety Sensor - Patented sample sensor allows Class 1 operation, subject to LSO approval
- Intuitive Android - Android operating system, with app based software
- High Resolution Display - Rear-facing display for easy viewing
- Rugged Metal Body - Maximum durability and minimal service costs.

APPLICATIONS:

- Oil & Gas
- Chemical Refineries
- Industrial Manufacturing
- Fabrication process
- Power generation
- Shipbuilders
- Steel makers
- Scrap processing/ Recycling

Product Specifications

Weight	4.35 lb. (1.97 kg) with battery
Dimensions	10.75 x 2.875 x 8.625 inches
Display	2.7-inch high-brightness color touchscreen, readable in all conditions. Rear-facing display for easy results viewing.
Power	On board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power.
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.
Security	Password protected. Multi-user support with configurable access.
Regulatory	CE, RoHS, USFDA registered. Class 3b laser. Sample sensor on board, allows for operation under Class 1 conditions subject to local LSO approval.
Processing Electronics	ARM Quad Cortex -A53 1.2GHz memory: 2 GB LPDDR3, 16 GB eMMC
Data Storage	Results Storage: 32 GB SD
Spectral Range	190-420 nm
Calibrations	Aluminum: Be, Mg, Al, Si, Ti, V, Cr, Mn, Fe, Ni, Cu, Zn, Zr, Pb, Bi, Ag, Sn Titanium Base: Al, Ti, V, Cr, Fe, Cu, Zr, Nb, Mo, Sn LAS Base: C, Al, Si, Ti, V, Cr, Mn, Fe, Cu, Ni, Nb, Mo, Pb Stainless Steels: C, Al, Si, Ti, V, Cr, Mn, Ni, Fe, Ni, Cu, Nb, Mo, W Nickel Base: Al, Si, Ti, Cr, Mn, Fe, Co, Ni, Cu, Nb, Mo, W Copper Base: Be, Al, Si, Cr, Mn, Fe, Ni, Cu, Zn, Ag, Sn, Pb, Bi Cobalt Base: Al, Si, Ti, Cr, Mn, Fe, Co, Ni, Cu, Nb, Mo, W Specialty Bases: Mg, V, Cr, Mn, Co, Zn, Zr, Nb, Mo, Ag, Sn, Hf, Ta, W, Re, Pb, S
Sample Viewing	Integrated camera and laser target indicator before and during analysis provide proper sample alignment. Includes 2nd "macro camera" for scanning QR or barcodes and for pho-to-documentation and report generation
Laser Raster	On-board Y stage for rastering laser to discrete locations for targeted analysis or averag-ing.
Atmosphere	SciAps proprietary Opti-Purge inert argon environment improves spectral signal-to-noise ratio; improves performance in UV range.
Calibration Check	Internal 316 stainless check standard for calibration verification and wavelength scale validation.
Drift Correction	On-board automated drift correction software with factory or user-provided reference materials.
Grade Library	500+ grades, multi-library support, libraries may be added or edited.