Document Title: Z-50 SpecSheet\_NoTSIComparison  
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|  | SciAps Z-50 |  |
|  | Specifications |  |
|  | Identify alloy grade and chemistry in seconds with limited sample prep, no radiation, and low cost of ownership. The SciAps Z-50 handheld LIBS provides fast, quantitative testing results in an air-burn environment.  A reliable alloy sorting device, mostly for aluminum, titanium alloys and stainless, the Z-50 is a great option for scrap metal recycling and quality assurance for aluminum production. |  |
|  | Argon-free |  |
|  | operation for six alloy bases: Al (including Li and Be down to 0.0001%), Ti, Stainless Steel, Ni, and Cu (including Be down to 0.0001%). |  |
|  | Ultra fast, precise LIBS analyzer |  |
|  | The SciAps Z-50 offers a durable, lightweight, safe, high-performance tool to meet your analytical needs. |  |
|  | Weight |  |
|  | 4 lbs. with battery |  |
|  | Dimensions |  |
|  | 8.25″ x 11.5″ x 4.5″ |  |
|  | Power |  |
|  | On-board rechargeable Li-ion battery, rechargeable inside device or with external charger, AC power. |  |
|  | Processing Electronics |  |
|  | ARM Cortex -A9 dual-core / 1.2 GHz  Memory: 1 GB DDR2 RAM, 1 GB NAND |  |
|  | Data Storage |  |
|  | Results Storage: 8 GB SD |  |
|  | Connectivity |  |
|  | Wifi, Bluetooth, USB. Connectivity to most devices, including SciAps ProfileBuilder  PC software. |  |
|  | Sample viewing |  |
|  | On-board, auto-focus camera/video for viewing sample before and during analysis, LED targeting system for pinpoint accuracy. |  |
|  | Laser Raster |  |
|  | On-board XYZ stage for rastering laser to discrete locations for averaging across sample surface; typical testing area: 0.8 mm x 0.3 mm |  |
|  | Excitation Source |  |
|  | 5-6 mJ/pulse, 50 Hz repetition rate, 1064 nm laser source |  |
|  | Argon-free |  |
|  | The Z-50 operates in an air environment,  not argon purge. Upgrade path to argon purge system available. |  |
|  | Calibration Check |  |
|  | 316 stainless steel internal standard for  automated wavelength calibration |  |
|  | Drift Correction |  |
|  | On-board automated drift correction  software with factory provided reference materials included with instrument |  |
|  | Grade library (alloy) |  |
|  | 500+ grades, multi-library support, libraries may be edited with PC software package |  |
|  | Regulatory |  |
|  | CE, RoHS, USFDA registered. Class 3b  laser. Sample sensor on board, allows for operation under Class 1. |  |
|  | New Z-50 |  |
|  | Z Series |  |
|  | Great News: |  |
|  | If you buy a Z-50 and need improved precision or carbon analysis, we offer attractive trade-ins to more advanced argon purge models, such as the Z-200 C+. |  |
|  | For more information, or to  schedule a demonstration: |  |
|  | www.sciaps.com  339.927.9455 |  |
|  | SciAps |  |