

KT-100S™

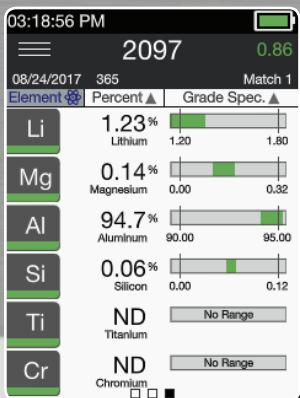
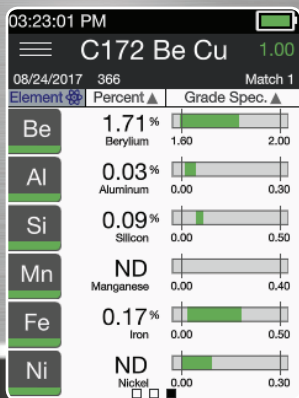
Cutting-edge Laser-based Metal Alloy Analysis

Integrating the latest in high performance miniature spectrometers, the KT-100S™ analyzer represents the next advancement in handheld laser-induced breakdown spectroscopy (LIBS). Its durable and accurate alloy analysis makes the KT-100S the tool of choice for use in:

- Scrap metal sorting
- Quality assurance in metal fabrication
- Positive material identification (PMI) in mission-critical applications, such as in aerospace and petrochemical facilities

The KT-100S handheld analyzer strengthens the capabilities of LIBS technology and expands the user advantages, such as:

- Small, lightweight design for less fatigue and highest throughput
- Military Specified (MIL-STD-810G) for field use in harsh environments
- Longer battery life for less downtime
- Lower cost of ownership versus legacy technologies



THE KT-100S HANDHELD LIBS ANALYZER provides a truly ruggedized alternative for more accurate identification of a large number of metal alloys, including aluminum, stainless, copper, titanium, nickel, cupronickel, etc. to ensure higher profitability and product quality.

KT-100S Provides:

ADVANCED PERFORMANCE

Proprietary 1064nm Class 3B laser excitation with low nominal ocular hazard distance (NOHD)

Miniature, high resolution, high throughput spectrometer with CMOS detector for optimized performance

Spectral range covering the most relevant alloying elements and spectral features

User selectable "Drill Down" for surface preparation to enable improved analysis

QuickID™ SOFTWARE

Rapid matrix selection, chemical composition and grade ID with no user input required

Password protected with automatic "sleep mode" for improved safety and battery life

On-board camera for capturing sample image and bar code reader for easy data entry

ACCESSORIES

Docking station for battery charging

Holster for safe keeping when on the move

2 rechargeable Li-ion batteries for 10+ hours of continuous operation

Aluminum & stainless verification samples

SOPHISTICATED ERGONOMICS

Pistol shaped for optimal one-handed operation: 24.3cm L x 8.4cm W x 25.7cm H (9.55" L x 3.30" W x 10.10" H) and weighing ~1.5kg (3.25lbs)

MIL-STD-810-G certified rugged/drop tested for reduced downtime and repair costs

IP-54 rated for protection against dust/water for no weather-related delays

3.5" high resolution tiltable screen allows for high visibility in confined spaces and outdoors

Choice of user interface:

- Smartphone-inspired touchscreen provides fast learning curve
- Large Softkey buttons for one-handed operation while wearing protective gloves
- Unique "Quick Launch" handle buttons enable one-handed operation

CONNECTIVITY

USB, WiFi connection for simple viewing and download to any PC or mobile device

Easy addition of any alloy grade using Rigaku Library Editor software

Generate verification certificates that include company logo, photo, data entry and analysis results

ADDITIONAL SERVICES

On-board System/Calibration verification program

Slotted aperture for analyzing turnings and other small or odd shaped samples.

OTHER SPECIFICATIONS

Certifications: FDA 1040, CE, ISO 9001:2008 Certified Manufacturing facility

External battery charger: 100~240VAC

Operating temperature of 5 to 40°C

Warranty of 12 months



WARNING
INVISIBLE LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT

Wavelength: 1064 nm
Maximum Average Power = 22.5 mW
Max. Pulse = 150 µJ, 1 ns

Complies with FDA performance standards for laser safety products except for deviations pursuant to laser notice No. 50 dated June 24, 2007 (IEC 60825-1:2007, 2014)

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