

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	SOPHISTICATED ERGONOMICS
Proprietary 1064nm Class 3B laser excitation with low ocular safety distance (NOCD)	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)
Miniature, high resolution, high throughput spectrometer with CMOS detector for optimized performance	MIL-STD-810-G certified rugged/drop tested for reduced repair costs
Spectral range covering the most relevant alloying elements and spectral features	IP-54 rated for protection against dust/water for no weather-related delays
User selectable "Drill Down" for surface preparation to enable improved analysis	3.5" high resolution tiltable screen allows for high visibility in confined spaces and outdoors
QuickID™ SOFTWARE	Choice of user interface: <ul style="list-style-type: none"> • 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
Rapid matrix selection, chemical composition and grade ID with no user input required	CONNECTIVITY
Password protected with automatic "sleep mode" for improved safety and battery life	USB, WiFi connection for simple viewing and download to any PC or mobile device
On-board camera for capturing sample image and bar code reader for easy data entry	Easy addition of any alloy grade using Rigaku Library Editor software
ACCESSORIES	Generate verification certificates that include company logo, photo, data entry and analysis results
Docking station for battery charging	ADDITIONAL SERVICES
Holster for safe keeping when on the move	On-board System/Calibration verification program
Rechargeable Li-ion battery for 6+ hours of continuous operation	Small sample insert for analyzing turnings and other small samples
Aluminum alloy verification sample	OTHER SPECIFICATIONS
OTHER SPECIFICATIONS	Certifications: FDA 1040, CE, ISO 9001:2008 Certified Manufacturing facility
External battery charger: 100~240VAC	Operating temperature of 5 to 40°C
Operating temperature of 5 to 40°C	Warranty of 12 months
Warranty of 12 months	



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