LASER-INDUCED BREAKDOWN SPECTROSCOPY (LIBS)

Handheld LIBS Alloy Analyzer

No radiation • Faster • Accurate • Eye-safe

Multi-element analysis

Detects Al, Cu, Steel, Mg, Ni, Ti, Au, Ag, Pt, Pd and more in a single shot.

Light element detection (Z < 12)

Accurately measures Al, Be, Mg and others beyond traditional XRF capability.

Maximum safety

1535 nm Class 1 eye-safe laser. Zero radiation hazard. IP54 rated.

REQUEST DEMO

Full specifications on page 2

1.75	2	8	0.05	IP54
KG TOTAL WEIGHT	SEC DETECTION TIME	HOURS BATTERY LIFE	% DETECTION LIMIT	ENCLOSURE RATING

TECHNICAL SPECIFICATIONS

LIBS-ALLOY-1535

TECHNICAL PRINCIPLE

LIBS uses a high-energy laser pulse to create a micro-plasma on the sample surface. The light emitted from this plasma is spectrally analyzed to reveal the elemental composition in real time.

Laser pulse → Plasma → Spectrum analysis

PRODUCT CHARACTERISTICS

- **Multi-element analysis** — Simultaneous detection of all target elements
- **Light elements** — Accurate Al, Be, Mg detection (Z < 12)
- **Maximum safety** — Class 1 eye-safe, zero radiation
- **Sample versatility** — Direct analysis of solid samples
- **Full connectivity** — BT, 4G, WiFi, USB, GPS

INSTRUMENT

Instrument weight	**1.75 kg (with battery)**	Power supply	**Lithium-ion, 8 hours**
Detection time	**2 seconds**	Operating temp.	**0 to 40 °C**
Storage temp.	**-20 to 60 °C**	Enclosure rating	**IP54**

OPTICS & PERFORMANCE

Laser	**1535 nm, Class 1 eye-safe**	Detection limit	**0.05 %**
Stability	**Major RSD < 1%, minor < 5%**	Camera	**Micro-area + photo camera**

SYSTEM & DATA

Operating system	**Android**	Display	**5" LCD capacitive touch**
Data transfer	**BT, 4G, WiFi, USB, GPS**	Data format	**XLSX**
Data storage	**16 GB built-in**	Operation mode	**One-button, fast analysis**

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