

LIBS Analyzer For Alloy

ATL6000A

Features

- Rapid Alloy Identification
- No Ionizing Radiation
- Low Maintenance Cost
- Simple, Intuitive to Use
- Water resistant level IP54 (GB/T 4208-2008) certified
- No any radiation, 3B eyes safety laser
- Resolution: < 0.1nm
- Blue tooth print Optional (Portable blue tooth printer)
- Fast Durable Accurate
- Reliable, high-productivity metal grade analysis in only 1 second for most alloys
- Idea for scrap metals sorting
- Positive Material Identification (PMI)
- Especially for aluminium alloy grade and composition analysis

Application

- Material Fabrication (Positive Material Identification, PMI)
- Metallurgy industry
- Trading or Inspection

Description

Laser Induced Breakdown Spectroscopy is an elemental analysis technique with broad application in science and industry. It uses high energy, short pulse laser as the excitation source to achieve optical breakdown at material surface. As plasma cools down excess of energy is emitted optically and is sequentially collected by optical spectrometers. By analyzing the emitted optical spectrum one can obtain both qualitative and quantitative information about the material composition. Our first-generation handheld LIBS analyzers are best suited for rapid alloys identification, including, but not limited to, aluminium alloys, stainless steels, copper alloys, and nickel alloy.

Fully enclosed housing (IP54) waterproof and dustproof. The body of machine is made of aluminium alloy, so it is very strong and wearable and it is suitable for long-time handheld operation. Large-capacity lithium battery pack can be used continuously for a whole day. The instrument does not have any fragile parts. It is more reliable than traditional fluorescence spectrometers, users can use it for long periods of time with minimal maintenance.



Parameters

Number	Standard	Enhanced	Custom
Stainless Steel	Standard	Standard	Optional
Wrought Aluminum	Not available		
Cast Aluminum	Standard		
Zinc Alloys	Not available		
Brass	Standard		
Other Copper Alloys	Not available		
Dimension and Weight	227*86*234 mm, ~1.25 kg (Battery including)		
Language Support	Chinese, English		
Battery Capacity	43 WH		
Working Temperature	0-40 Celcius, recommend to work between 5-35 Celcius		
Bluetooth Printer	Optional		
Single Test Time	~1 second		
Protection Class	IP54 (GB/T 4208-2008) Certified		
WIFI	Standard		
Customizable Front Panel	Optional		
Warranty	One year factory warranty, Extend warranty available		