

Carbon analysis, laser focused

Fast, accurate, portable LIBS analysis

When carbon detection and mobility are top of mind, industrial businesses rely on the Thermo Scientific™ Niton™ Apollo™ LIBS analyzer. Leveraging Laser Induced Breakdown Spectroscopy (LIBS), the Niton Apollo delivers superior performance and enhanced productivity. Unleash the possibilities and bring the power of lab analysis to the field.

Applications

- Verification of metal alloys in manufacturing operations
- Field inspections for positive material identification (PMI)
- Qualification of Material Test Reports (MTR) throughout the supply chain
- Quality Assurance (QA) of outgoing production
- Quantification of carbon equivalency and pseudo elements in field testing

Analytical performance

Designed to provide low limits of detection, the Niton Apollo enables users to quantify the elemental composition of materials. Specially engineered to determine carbon content in low alloy and carbon steels, the Niton Apollo utilizes a high purity argon purge to achieve superior results.

Rapid results

Powered by a class 3B laser, the Niton Apollo generates accurate results in about 10 seconds. View alloy identification and advanced averaging instead of sending results to the lab. Data is displayed in real time, enabling fast and efficient decision making.

Expanded field access

Avoid maneuvering heavy equipment into tight spaces. Weighing just 6.4 pounds (2.9 kilograms), the Niton Apollo transforms a laboratory or cart-mounted spark Optical Emission Spectroscopy (OES) system into a highly portable handheld analyzer. Whether hanging from a rope, or climbing in a trench, the Niton Apollo easily and safely travels with the user.

User Friendly

Discover high-speed performance combined with point and shoot simplicity. With minimal training, the Niton Apollo is easily operated even by non-technical users. From confirming steel grades, to determining metal compositions, the Niton Apollo is ready to work when you are.



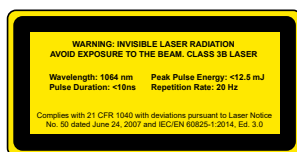
The Thermo Scientific™ Niton™ Apollo™ LIBS analyzer.

Functionality

Vivid icons and an application interface ease navigation and configuration. Utilize swipe and touchscreen functionality, even with a gloved hand. The Niton Apollo's optional directional keys provide added usability. A micro and macro camera enable precise sample positioning and collect images for better record keeping. WiFi accessibility also automatically transmits data from your device to PC.

Product Specifications

Weight	6.4 lbs with battery (2.9 kg)
Dimensions	12 x 13 x 4 in (30.48 x 33.02 x 10.16 cm)
Laser	1064nm laser
Safety Features	Pressure, camera, and spectral sensor interlocks
Analytical Range	Al, C, Cr, Cu, Fe, Mn, Mo, Ni, Si, Ti, V, W
Argon Usage	About 200 shots per cartridge
Libraries	Default alloy libraries based on SAE, AISI, ASTM standards Users may create, clone and edit libraries
IP Rating	IP54 (splash and dust proof)
Operating Environment	Temperature: 0°C to 40°C
Display	Tilting, color, resistive touchscreen display
Power	24V, 3.75A, 90W power supply
Macro Camera	Integrated CCD macro camera for capturing overview images of parts and tagging measurement locations
Micro Camera	Integrated CCD micro camera for locating and recording measurement positions
Global Positioning System	Internal GPS Ability to include GPS data with sample information
Bluetooth	Supports print functionality
Memory / Data Storage	512 MB internal system memory / 16 GB industrial grade storage Stores approximately 5,000 readings with spectra (fewer if macro and micro images are saved)
Data Entry	Touchscreen keyboard User customizable data entry
Data Transfer	WiFi, USB
Operating System	Linux
Support Software	NitonConnect PC software
Security	Password-protected user security
Languages	English
Standard Accessories	Locking shielded carrying case Two (2) Milwaukee® M18™ Redlithium™ High Demand™ CP2.0 Battery Packs One (1) Milwaukee® M18™ & M12™ Multi-Voltage Charger Thermo Scientific™ analytical argon Setup standards Laser safety glasses Instrument cleaning kit Safety lanyard and carabiner PC connection cable
Optional Accessories	Thermo Scientific™ bulk argon adapter Additional laser safety glasses
Compliance	CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010
Licensing / Registration	Varies by region. Contact your local distributor.



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