

# Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)

Product specifications

LIBS analysis

## Laser focused carbon analysis Introducing Niton Apollo. Fast, accurate, portable.

#### Applications

- Measure challenging structural shapes and sizes, including 1/4" piping, 3/8" bars, and larger weld wires
- Bypass additional costs and time spent with onsite small-part measurement capabilities
- Increase shots per cylinder and return on investment with a refined tapered nose and argon seal
- Determine alloy composition and calculate carbon equivalency to grade metal samples and determine piping weldability
- Verify critical assets and inspect materials at any point of need for Positive Material Identification (PMI) and Quality Control (QC)
- Validate Material Test Reports (MTR)
- Prevent contaminated scrap from entering supply streams and detect tramp and trace elements to meet regulatory standards

Discover the Thermo Scientific<sup>™</sup> Niton<sup>™</sup> Apollo<sup>™</sup> handheld LIBS analyzer. Engineered to help conquer your toughest analytical challenges, the Niton Apollo specializes in measuring carbon content in a convenient, portable form factor. Powered by Laser Induced Breakdown Spectroscopy (LIBS), the Niton Apollo delivers unmatched speed, superior performance and enhanced productivity. Unleash the possibilities and bring the power of lab analysis to the field.

#### **Analytical performance**

hermo scientific

Designed to provide fast analysis and low detection limits, the Niton Apollo ensures superior results. Powered by an effective laser and high purity argon purge, the Niton Apollo delivers lab quality analysis in about 10 seconds. Users can calculate carbon equivalency and perform advanced averaging, while also identifying alloy grades and programming pseudo elements. Data is displayed in real time, enabling fast and efficient decision making.

#### **Expanded field use**

Avoid maneuvering heavy equipment into tight spaces. Weighing just 6.4 pounds (2.9 kilograms), the Niton Apollo transforms a traditional laboratory, or cart-mounted Optical Emission Spectroscopy (OES) system, into a highly portable handheld analyzer. Experience a whole new range of motion as you seamlessly climb up pipelines and into trenches. A tapered nosehelps users achieve even more coverage to measure difficult to reach areas, such as tight welds, cavities, and small part samples.

#### Increased productivity

Discover high-speed performance combined with point and shoot simplicity. With minimal training, the Niton Apollo is easily operated even by non-technical users. Fast analysis times help increase sample throughput and production. A hot-swap Milwaukee<sup>®</sup> battery also keeps users up and running when it's time to replace a low battery.

Thermo Fisher

#### Safe analysis

A powerful laser should be operated with the utmost care. The Niton Apollo comes equipped with three (3) robust safety interlocks to help users reduce the risk of a laser misfire. Tried, tested, and validated by a third party, our interlocks help keep operators safe. Designed to measure chamber pressure, spectral type, and light/ dark conditions, users can securely operate the Niton Apollo with peace of mind.

#### **Functionality**

Vivid icons and an intuitive 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 and securely transmits data from your device to PC.

#### Reliability

Partner with dedicated service professionals ensuring instrument performance to deliver consistent results. Our service solutions optimize your instrument investment with calibration services, unlimited technical support, remote diagnostics, convenient depot repair, and parts availability.

Weight6.4 bas with battery (2.9 bg)Dimensions12x 13x 1 in (30.48 x3.30.2x 10.16 cm)Laser1064nn laserStaflery features0 hasher pressure, spectral type, and (light/ dark sensor interlocksModes / analytical rangeAbot 200 shots per cartridgeLibrarisDefault lay libraries based on SAE, ASI, STM standards. Users may create, clone and cell librariesIP PatingDefault lay libraries based on SAE, ASI, STM standards. Users may create, clone and cell librariesIP PatingDefault lay libraries based on SAE, ASI, STM standards. Users may create, clone and cell librariesOperating environmetEnvertex: 23°F - 104°F (0°C - 40°C)Altido6.000 tm aximunOperating environmetIntegrated COB macro camera for capturing overview integras of parts and taging measurement postionsMicro cameraIntegrated COB macro camera for locating and rescording measurement postionsBluetothIntegrated COB macro camera for capturing overview integras of parts and taging measurement postionsMicro cameraIntegrated COB macro camera for locating and rescording measurement postionsBluetothIntegrated COB macro camera for capturing overview infracor and micro images are saved?Data transferS12 MB interlos yield macro save yield storage Standards user provokade. User customizable data entryData transferIncolmenter PostoforsStandard accessoriesIncolmenter PostoforsStandard accessoriesIncolmenter PostoforsNorth StandardsIncolmenter PostoforsStandard accessoriesIncolmenter PostoforsOperating system <th>Specifications</th> <th></th>	Specifications	
Laser1064nm laserSafety featuresChamber pressure, spectral type, and light/ dark sensor interlocksModes / analytical rangeAbout 200 shots per cartridgeLibrariesDefault alloy libraries based on SAE, JSI, ASTM standards. Users may create, clone and edit librariesIP RatingIPE44 splash and dust proof)Operating environmentTemperature: 32°F - 104°F (0°C - 40°C)Attitude6,000 ft maximumDisplayTiting, color, resistive touchscreen displayPower24V, 3.75A, 90W power supplyMacro cameraIntegrated CCD macro camera for capturing overview images of parts and tagging measurement locationsMicro cameraIntegrated CCD macro camera for capturing overview images of parts and tagging measurement locationsBluetoothBluetooth 4.0 (supports print functionality)Memory / data storageStores approximately 5,000 readings with spectra (fewer if macro and micro images are saved)Data transferWiFi, USBOperating systemLinuxSupprison storagesLinuxStores approximately 5,000 readings with spectra (fewer if macro and micro images are saved)Data transferWiFi, USBOperating systemLinuxStored sprints systemLinuxStored sprints system memoryStore approximately 5,000 readings with spectra (fewer if macro and micro images are saved)Data transferWiFi, USBOperating systemLinuxStored sprints systemLinuxStored sprints systemLinuxStored sprints systemStored sprints system <td< th=""><th>Weight</th><th>6.4 lbs with battery (2.9 kg)</th></td<>	Weight	6.4 lbs with battery (2.9 kg)
Safety features Chamber pressure, spectral type, and light/ dark sensor interlocks   Modes / analytical range Stainless Steic C, Al, Si, Ti, V, Cr, Mn, Co, Ni, Cu, Nb, Mo, W Low Alloy / Carbon Steic C, Al, Si, Ti, V, Cr, Mn, Ni, Cu, Mo, W   Argon usage Default alloy libraries based on SAE, AISI, ASTM standards. Users may create, clone and edit libraries   IP Rating IPS4 (splash and dust proof)   Operating environment Temperature: 32°F - 104°F (0°C - 40°C)   Altitude 6,000 ft maximum   Display Tilting, color, resistive touchscreen display   Power 24V, 375A, 90W power supply   Macro camera Integrated CCD macro camera for clocking and recording measurement positions   Micro camera Integrated CCD macro camera for clocking and recording measurement positions   Bluetooth Bluetooth 4.0 (supports print functionality)   Bluetooth Bluetooth 4.0 (supports print functionality)   Data ransfer WiF, USB   Operating system Linux   Support software English   Languages English   Languages English   Locking shielded carrying case   Two (2) MiNuaukeee <sup>#</sup> MB <sup>®</sup> Redithium <sup>®</sup> High Demand <sup>®</sup> CP2.0 battery packs   One (1) Buxukee <sup>#</sup> MB <sup>®</sup> Redithium <sup>®</sup> High Demand <sup>®</sup> CP2.0 battery packs   Oreing assories Setup standards   Languages English <th>Dimensions</th> <th>12 x 13 x 4 in (30.48 x 33.02 x 10.16 cm)</th>	Dimensions	12 x 13 x 4 in (30.48 x 33.02 x 10.16 cm)
Modes / analytical rangeStainless Steel: C, AI, Si, Ti, V, Cr, Mn, Co, Ni, Cu, Nb, Mo, W Low Alkoy / Carbon Steel: C, AI, Si, Ti, V, Cr, Mn, Ni, Cu, Mo, WArgon usageAbout 200 shots per cartridgeLibrariesDefault alloy libraries based on SAE, AISI, ASTM standards. Users may create, clone and edit librariesIP RatingIP54 (splash and dust proof)Operating environmentTemperature: 32°F - 104°F (0°C - 40°C)Altitude6,000 ft maximumDisplayTilting, color, resistive touchscreen displayPower24X, 375A, 90W power supplyMacro cameraIntegrated CCD micro camera for locating and recording measurement positionsGlobal positioning systemIntegrated CCD micro camera for locating and recording measurement positionsBluetoothBluetooth 4.0 (supports print functionality)Memory / data storageStores approximately 5.000 readings with spectra (fewer if macro and micro images are saved)Data ransferWiFi, USBOperating systemLinuxLanguagesEnglishLanguagesEnglishLanguagesLocking shielied carrying case Two (2) Milwaukee® M18° & M12° multi-voltage charger One (1) Milwaukee® M18° & M12° multi-	Laser	1064nm laser
Argon usageAbout 200 shots per cartridgeLibrariesDefault alloy libraries based on SAE, AISI, ASTM standards. Users may create, clone and edit librariesIP RatingIIP54 (splash and dust proof)Operating environmentTemperature: 32"F - 104"F (0°C - 40°C)Altitude6,000 ft maximumDisplayTilting, color, resistive touchscreen displayPower24V, 3.75A, 30W power supplyMacro cameraIntegrated CCD macro camera for capturing overview images of parts and tagging measurement locationsMicro cameraIntegrated CCD macro camera for locating and recording measurement positionsGlobal positioning systemIntegrated CCD macro camera for locating and recording measurement positionsBluetoothBluetooth 4.0 (supports print functionality)Memory / data storageStores approximately 5.000 readings with spectra (fewer if macro and micro images are saved)Data entryTouchscreen keyboard. User customizable data entryData transferWiFi, USBOperating systemLinuxSupport softwareStored storageSecurityPassword-protected user securityLanguagesEnglishLocking shielded carrying caseTwo (?) Milwaukee® M18" & M12" multi-voltage chargerOne (1) Milwaukee® M18" & M2" multi-voltage chargerOne (1) Milwaukee® M18" & M12" multi-voltage chargerOne (1) Milwaukee® M18" & M2" multi-voltage chargerOne	Safety features	Chamber pressure, spectral type, and light/ dark sensor interlocks
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IP Rating IP54 (splash and dust proof)   Operating environment Temperature: 22°F - 104°F (0°C - 40°C)   Altitude 6,000 ft maximum   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 macro camera for locating and recording measurement positions   Bluetooth Internal GPS (ability to include coordinates with sample information)   Bluetooth Bluetooth 4.0 (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   ViFI, USB Unchacreen tecyboard.   Operating system Linux   Support software NitonConnect PC software   Security Password-protected user security   Languages English   Stores appressimately Locking shielded carving case   Two (2) Milwaukee® M18" & M12" multi-voltage charger	Argon usage	About 200 shots per cartridge
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LanguagesEnglishLocking shielded carrying case Two (2) Milwaukee® M18 <sup>™</sup> Redlithium <sup>™</sup> High Demand <sup>™</sup> CP2.0 battery packs One (1) Milwaukee® M18 <sup>™</sup> & M12 <sup>™</sup> multi-voltage charger One (1) Box Thermo Scientific <sup>™</sup> Analytical Argon - 5 pack Setup standards Laser safety glasses Instrument cleaning kit Safety lanyard and carabiner PC connection cableOptional accessoriesThermo Scientific <sup>™</sup> bulk argon adapter. Additional laser safety glasses ComplianceComplianceCE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Support software	NitonConnect PC software
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Compliance     CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010	Standard accessories	Two (2) Milwaukee® M18 <sup>™</sup> Redlithium <sup>™</sup> High Demand <sup>™</sup> CP2.0 battery packs One (1) Milwaukee® M18 <sup>™</sup> & M12 <sup>™</sup> multi-voltage charger One (1) Box Thermo Scientific <sup>™</sup> Analytical Argon - 5 pack Setup standards Laser safety glasses Instrument cleaning kit Safety lanyard and carabiner
	Optional accessories	Thermo Scientific <sup>™</sup> bulk argon adapter. Additional laser safety glasses
Licensing / Registration Varies by region. Contact your local distributor.	Compliance	CE, RoHS, FCC, Industry Canada, Safety to IEC 61010-1:2010
	Licensing / Registration	Varies by region. Contact your local distributor.



WARNING: INVISIBLE LASER RADIATION AVOID EXPOSURE TO THE BEAM. CLASS 3B LASER Wavelength: 1064 nm Peak Pulse Energy: <12.5 mJ Pulse Duration: <10ns Repetition Rate: 20 Hz

Complies with 21 CFR 1040 with deviations pursuant to Laser Notice No. 50 dated June 24, 2007 and IEC/EN 60825-1:2014, Ed. 3.0

### Learn more at thermofisher.com/nitonapollo

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## thermo scientific