NanoLIBS®

LIBS Solution

Handheld LIBS Analyzer for the Pharmaceutical Industry

The NanoLIBS® Handheld LIBS Analyzer is a state-of-the-art handheld Laser Induced Breakdown Spectroscopy instrument for rapid identification of solid materials based on elemental analysis. NanoLIBS provides considerable time savings in materials identification and confirmation, improving compliance for raw material testing requirements while increasing productivity. The NanoLIBS is lightweight with a high brightness touch screen for rapid material identification using identification and investigation operation modes, giving results in seconds. The unit has a built-in 2D barcode scanner. NanoLIBS ID data management and reporting software for user PCs is included.

The NanoLIBS uses the minimally destructive and 21 CFR 1040.10 compliant LIBS technology to provide a spectrum with elemental information, ideal for identifying monatomic ionic salts such as KCl and NaCl without requiring reagents or lengthy sample preparation of destructive laboratory methods. With its intuitive user interface and advanced algorithms it provides users a pass/fail result within seconds.

Time Savings – user-friendly software allows even non-technical users to quickly take a sample, press a tablet, and scan to get a result

Safety – no need for reagents while facilitating 100% incoming raw material identification, protecting employees as well as customers

Accurate and Traceable – viable technology according to USP chapter 730 paired with 21CRF Part 11 compliant software gives users confidence in their results

Clearly identifies and verifies:

- KBr
- KCl
- KI
- NaBr
- NaCl
- Other materials possible upon request

Incoming raw material identification of monatomic salts such as used for:

Liquid products

Injectable solutions

Intravenous preparations

Dialysate solutions

Software

State-of-the-Art Identification Software

The NanoLIBS comes standard with B&W Tek's proprietary NanoLIBS OS software installed on the unit, which allows for identification and investigation, library and method development, and data transfer. Results are clearly displayed and can be reviewed on the easy-to-use touchscreen interface. The NanoLIBS ID software with a secure database is designed for use on PCs for data and methods management, allowing customers to review data, generate reports, export data, and integrate with their LIMS system. The NanoLIBS ID and NanoLIBS OS software packages are 21CFR part 11 compliant, with IQ/OQ documentation and services available.

Additionally, the NanoLIBS provides secure Wi-Fi and Ethernet synchronization capabilities with network terminals in order to optimize time and resources. NanoLIBS OS is capable of data and report transfers in order to centralize information (such as libraries, methods and final reports) in general servers.
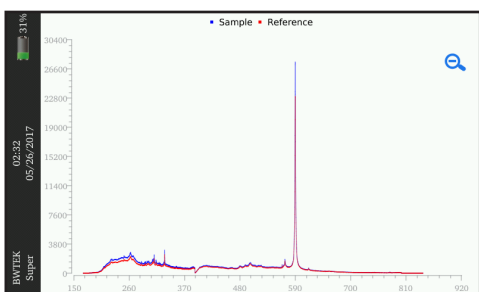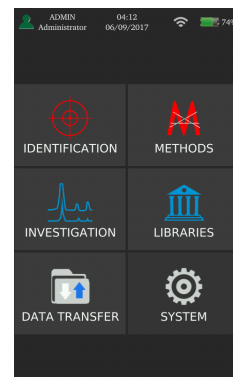
Specifications:

Excitation Wavelength	1064 nm
Laser Safety Class	3B
Spectral Range	UV - VIS - NIR
Display	3.7" color touchscreen; glove operable
Barcode Reader	Linear and 2D standards
Software	NanoLIBS OS (embedded), NanoLIBS ID (PC)
Data Formats	.txt, .csv, .spc
Connectivity	Wi-Fi, Ethernet
Battery	Rechargeable Li-ion, >4 hrs operation
AC Adapter	Output: DC 12 V, 2A minimum
Weight (including battery)	3.9 lbs (1.8 kg)
Size	10.4 in x 3.9 in x 12 in (265 mm x 100 mm x 304 mm)
Operating Temperature	0 - 40°C
Storage Temperature	-30°C to +60°C