B&W TEK INC.

Your Spectroscopy Partner

SPECTROMETERS | LASERS | TOTAL SOLUTIONS

Mobile Laser Induced Breakdown Spectroscopy (LIBS) Solution

At the present time, this product is available only to certain selective or OEM customers for developing custom analyzers for mobile applications. As a total solution provider, B&W Tek is actively seeking strategic, channel and OEM partners to enable them to address their custom applications and vertical markets.

NanoLIBS
Handheld LIBS Analyzer

i-LIBS
Portable LIBS Analyzer

Features

- Lightweight, Handheld & Portable
- Light Element Detection
- Safe (No X-Ray Exposure)
- Rastering Beam or Mapping
- Point and Shoot
- Battery Operation
- High Accuracy and Precision
- Quick Results (1-2 Seconds)
- Touch Screen with Glove Operation
- Detects All Elements

19 Shea Way, Newark, DE 19713 • Tel: (302) 368-7824 • Web: www.bwtek.com

Mobile LIBS Applications

Industrial

Chemistry- Catalyst & Impurity Control

Conservation- Pigment Analysis

Electronics-Particulate Analysis

Environment - Particulate Analysis

Food Safety & Quality

Geology - Impurity Distribution

Glass - Impurity Control

Medical Diagnostics

Laboratory

Mineral Analysis & Identification

Nuclear - Radioactive Element Analysis

Petroleum & Lubricants

Pharmaceutical - API ID & Tablet Analysis

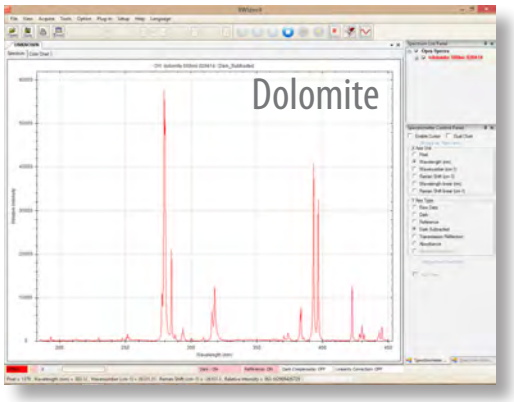
Polymer Analysis - Plastic Recycling, Flame Retardant ID

RoHS Compliance

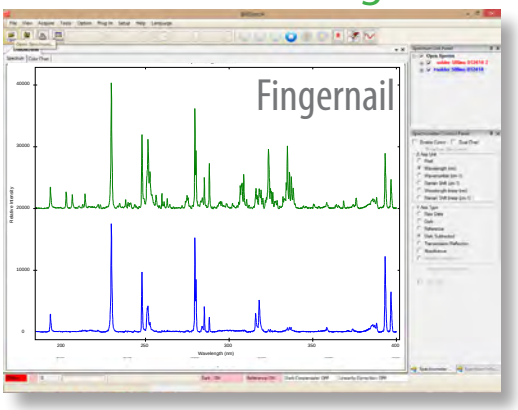
Safety & Security - Hazardous Materials ID

Sample LIBS Spectra

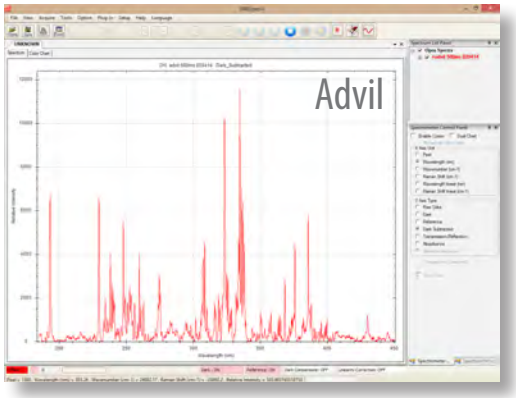
Minerals



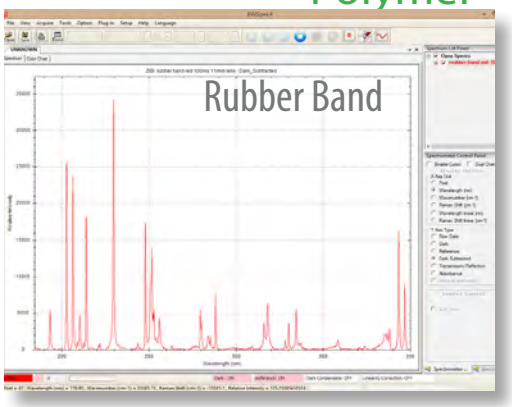
Diagnosis



Pharmaceutical



Polymer



A Total Solution Provider & Enabler of Mobile LIBS

Mobile LIBS Solution

Advanced MicroLIBS Laser

Superior Performance

Match box size with powerful and fast multi-GW/cm^2 plasma generation at an extremely high repetition rate

Handheld and Portable Integration

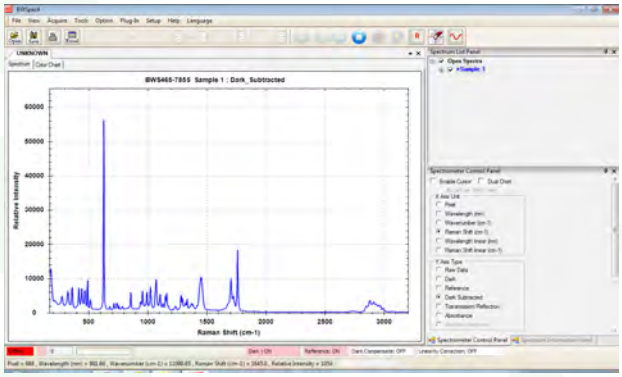
System Integration with In-house Capabilities

Integrate into a portable or handheld system with battery operation under Linux, Android or Window OS

Chemometrics

World Class Software

In-house Material Identification Software-**BWID**
In-house Quantitative Analysis Software-**BWIQ**



Chemometrics/Methods/ Calibration/Applications

In-house Applications Team

Custom-built solutions for identification or quantitative analysis of pure materials & mixtures with our patent-pending chemometric/calibration engine

Compact Spectrometer

For "Real Time" Spectroscopy

Capable of multiplexing and real time spectroscopy with <20ns trigger/jitter and <100 picometer resolution; multiplexing capability for integrating up to 16 spectrometers

Quality & Compliance

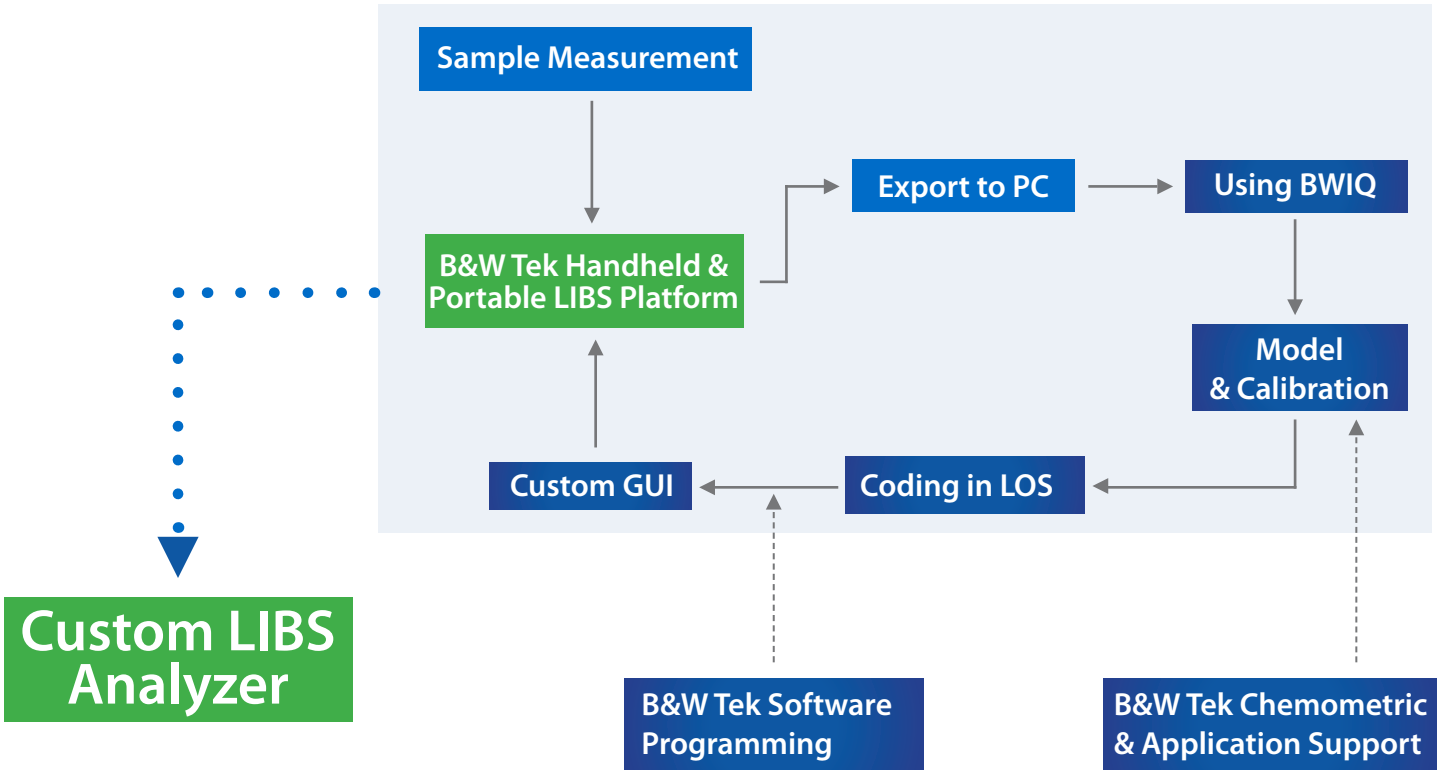
Medical Device Engineering and Manufacturing
ISO 9001/13485 Certified Systems
FDA & CDRH Registration and Compliance
CE Compliant
Application of Six Sigma Methodologies
Mock FDA Quality Systems Inspections Technique (QSIT)
Extensive Quality Control Check Points Including Installation Qualification (IQ), Operational Qualification (OQ), Performance Qualification (PQ) and Software Verification and Validation

An Open Mobile LIBS Platform to Enable Real World Applications in Collaboration with Our Customers

Specifications	*NanoLIBS*	*i-LIBS*
LOD (Element Dependent)	10ppm - 10,000ppm	1ppm - 10,000ppm
Accuracy	5 - 15%	
Display	LED Color, Touchscreen, Glove Operable	Embedded Touch Pad or External PC
GUI	Intuitive	Customize on Screen
Operation	Point & Shoot	Point & Shoot or Mapping
Time to Result	1-2 Seconds (Typical)	
PC Connection	Wi-Fi/USB	
Battery Life	4 - 8 Hours	
Operating Temperature	0 - 40°C	
Weight	3.5 - 5.5lbs	7 - 12lbs
Dimensions (Approx)	11 x 3.5 x 11 inches	8 x 11 x 12 inches

*Subject to Change

Custom Application Process



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