bertin

NEW

QUANTOM-LAB

Elemental Analyzer by LIBS

- Detection of all elements, even the lightest
- High brilliance DPSS laser
- Database and chemometry software
- Embedded applications for targeted analyses

QUANTOM-LAB

Atomic Emission Spectroscopy by LIBS

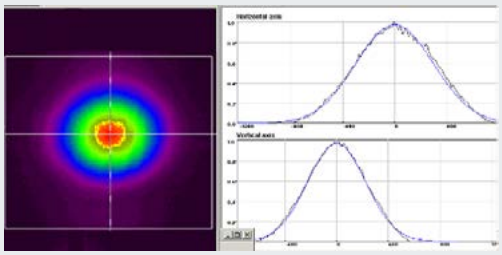
Bertin Technologies, market leader in the atomic analysis of materials, designs and develops laser spectroscopy solutions for chemical analysis.

The new Quantom-LAB easily analyzes solid or liquid samples by Laser-Induced Breakdown Spectroscopy (LIBS), down to ppm level.

This system allows to get a fast and accurate response without sample preparation.

The LIBS technology is suitable for contaminants detection, matrix classification, mapping or quantification, for all elements in the periodic table.

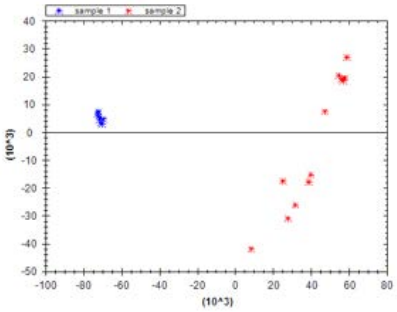
- **Proprietary air-cooled DPSS Nd:YAG laser, with low beam divergence for high fluence**
- **Patented achromatic and collinear focusing head**
- **From 245 to 920 nm spectral range.**
  Spectral resolution depending on your configuration



High laser beam quality

User friendly & intuitive interface

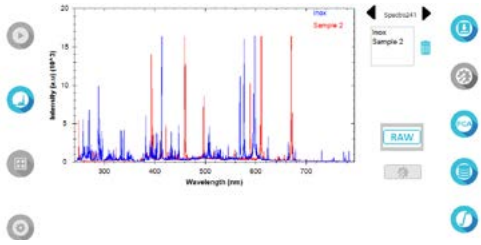
- 17" Touch screen
- Partial Componant Analyses (1)
- LIBS database (2)
- Spectra overlapping (3)
- Intensity calculation



(1) Partial Component Analyses

<< (2) Intuitive Periodic Table database

(3) Experimental Spectra and theoritical lines overlap >>



Embedded applications in option:

- Polymer discrimination (PE/PP, HIPS, ABS, ABS/PC...)
- Flame retardant detection
- Radioactive elements
- Geological...

Technical features

SPECTROMETER:

UP TO 4 CHANNELS, COVERING 245-920nm*

CHAMBER:

X,Y,Z MOTORIZED STAGES

GAS FLOW OPTION

LASER CLASS:

I (EYE SAFE)

WEIGHT: 40 kg

DIMENSIONS:

LIBS BENCH: 640 X 480 X 535 mm

MONITOR 17"

OPERATIONAL TEMPERATURE:

15-25°C

LASER:

λ=1064 nm, E > 35 mJ,

DIV < 0,6 mrad

REP. RATE = 20 Hz

* CUSTOM CONFIGURATION

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