IVEA
SOLUTION

For your field applications IVEA designed a portable, lightweight and autonomous analyser. With **EasyLIBS**, you can get in less than a second, the elemental composition of all types of solid materials. You identify directly the nature of raw materials in quality control or for quick sorting, for example. Supplementing the range of products offered by IVEA and based on the same technology LIBS: Laser Induced Breakdown Spectroscopy, the EasyLIBS will be a perfect tool for your on-site study's needs.

Features and benefits :

Portable and autonomous: A total weight below 7 kg for an 8-hour use

Fast: Instant results, no sample preparation

Laser ablation: IR 1064 monopulse or dualpulse. All solid absorbent materials

Optical beam shaping: The total control of the laser-matter interaction

AnaLIBS: A dedicated user-friendly software for automatic acquisition and processing

Applications :

The EasyLIBS is the ideal tool to detect and map directly industrial soil pollution. In recognition use, EasyLIBS can help you to sort the stocks of raw materials, to verify their nature right next to the production lines. In maintenance use, the EasyLIBS confirms you the nature of the materials to replace.

EasyLIBS

Elemental analysis in-situ

Spécifications

Source

Laser type	Pulsed Nd:YAG, option dualpulse mode
Wavelength	1064 nm
Frequency	1 Hz
Laser energy on the sample	Less than 25 mJ

Spectromètre d'analyse

Wavelength range	190 to 950 nm depending on spectrometer
Resolution power	0.2 nm (FWHM) typical
Detector type	CCD or PM

Paramètres d'analyse

Diameter of the analysis crater	250 µm typical, less on demand
Detection limits	From few tens of ppm to few thousands of ppm depending on elements and configuration
Measurement dynamic	From few tens of ppm to 100%
Analysis atmosphere	Ambiant air or controled atmosphere by blowing
Analysis time	Less than a second

Dedicated computer for analysis

AnaLIBS software	- Control the temporal acquisition parameters
	- Automatic and manual data treatments : automatic recognition of the peaks, calibration curves module, quantitatives and semi-quantitatives analysis, recognition of the materials by PCA module and arborescence

Off-line analysis

Off-line software and dongle for data treatment

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