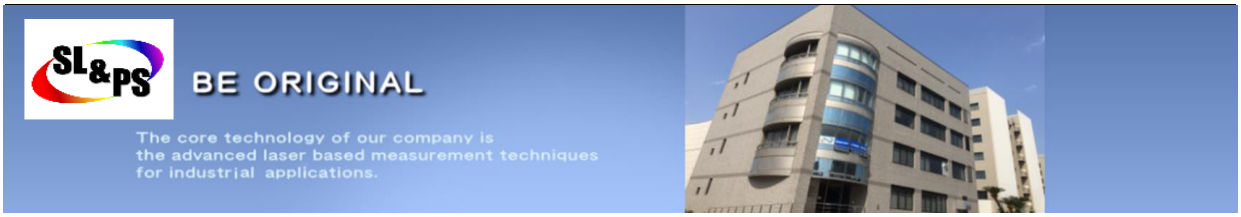


Long and Short DP-LIBS-I

Long and short DP-LIBS-I as a useful elemental composition determination method has been applied in various fields including solid, liquid and gas due to its advantages of fast response, high sensitivity, non-contact and multi-elemental detection. It utilizes the collinear long and short DP-LIBS (Long and Short Double-Pulse Laser Induced Breakdown Spectroscopy) technology developed by Tokushima University and Xi'an Jiaotong University. It can be applied to industrial processes, environment protection, and food safety for elemental measurement.

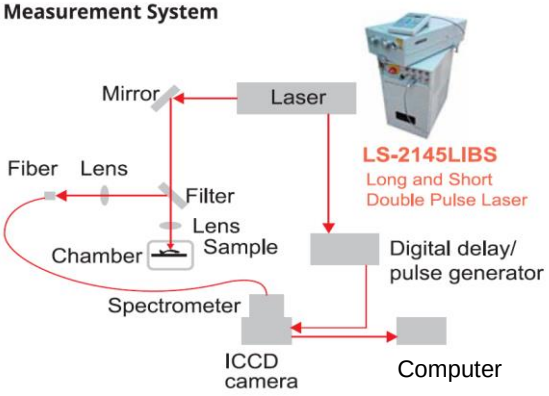
Principle:Long and Short Double-Pulse Laser Induced Breakdown Spectroscopy

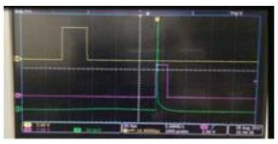
The laser-induced plasma is generated by the short pulse-width laser and the external energy is supplied by the long pulse-width laser operated under FR (free running) condition to sustain the plasma.

Target:metallurgy, power plant, ocean exploration, etc.

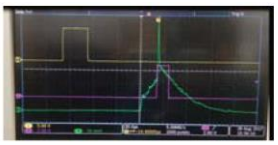
Elemental Analysis(Fe, Mn, C, H, Si, Al, Hg, Cd and so on)

Measurement System



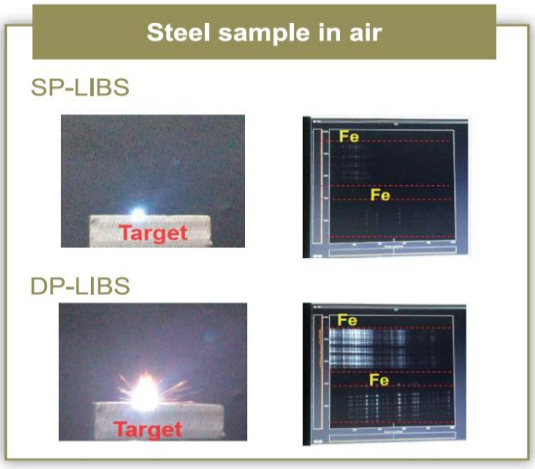


Single Pulse



Long and short Double Pulse

Applications



Products

- ☑ Long-Short DP-LIBS System
- ☑ LIBS System
- ☑ Laser, Optics, Detector
- ☑ Acquisition system
- ☑ Custom Design System

Contact