



Transportable dual-pulse instrument for LIBS analysis

Marwan Technology Srl



MODELS

- ❑ Modì, Mobile double-pulse instrument for LIBS analysis
 - Fully integrated and transportable (fits in the back of a car)
 - Wide purpose, already applied to a number of different fields
 - CF-LIBS capability
- ❑ Modì Smart (low cost)
 - Time integrated spectrometer (no Echelle & ICCD)
 - Still SNR gain with double pulse
 - Highly reproducible spectra
 - Quantitative analysis with statistical methods

Modi

- ❑ Double-pulse Nd-YAG laser
 - 120 mJ per pulse in 7 ns, up to 10 Hz
 - Variable pulse delay with ns precision
- ❑ Broadband Echelle spectrometer
 - Spectral resolution 5000, range 200÷1000 nm
 - Intensified CCD for fast gating
- ❑ Other features:
 - Articulated arm for external use
 - Internal chamber with 3-axis motorized micrometric stage for sample positioning
 - Integrated software for standardless quantitative analysis (CF-LIBS)
- ❑ Fully integrated and transportable



SCHEMA DI PRINCIPIO

