

Product Datasheet

LIBSCAN 50 TM & LIBSCAN 100 TM

MATERIAL CHARACTERIZATION SYSTEM



Features

- Compact and field-deployable
- Waterproof and ruggedized instrument case
- 50 mJ laser (LIBSCAN 50) or 100 mJ laser (LIBSCAN 100)
- Class 1 laser product (fully-contained laser beam)
- Up to four spectrometer modules may be installed. Wavelength range approx. 200 900 nm, spectral resolution ($\lambda/\Delta\lambda$) of up to 3000.
- Integral sample chamber with sample holder, XY micro-positioner stage, and laser-safe viewing window
- External laser power supply easily disconnected to facilitate transportation
- May be operated with a laptop PC, PDA or other device running Windows^{®†}
- Software and library upgrades

© 2007 All rights reserved

[†] Windows[®] is a registered trade mark of Microsoft Corporation

Specifications subject to change without notice

진영테크

133-822 서울시 성동구 성수일로 77 서울숲IT 밸리 714 Tel, 02-3280-7701 · Fax, 02-3280-7702 http://www.jytech.com · E-mail, info@jytech.

 Telephone +44 (0)1756 708900
 Facsimile +44 (0)1756 708909
 Email mail@appliedphotonics.co.uk
 Web wv



General Specifications

Technology:	Laser-Induced Breakdown Spectroscopy (LIBS)
Laser source:	Q-switched Nd:YAG operating at 1064 nm (Class 4 laser device)
Laser pulse energy:	50 mJ (LIBSCAN 50) or 100 mJ (LIBSCAN 100)
Laser PRF:	Up to 20 Hz
Spectrograph:	Up to four spectrometer modules may be installed. Wavelength range approx. $200 - 900$ nm and spectral resolution ($\lambda/\Delta\lambda$) of up to 3000 - dependent on chosen specification of each spectrometer module (see <u>www.avantes.com</u> for further information on spectrometer specifications)
Size:	525 x 436 x 217 mm (excluding external laser power supply)
Sample interface:	Integral sample chamber with manually adjustable XY micro-positioner stage
User Interface:	External PC, laptop or PDA running Windows [®] operating system
System Software:	Data acquisition, processing and recording via user-friendly LIBSoft [™] software
Power requirements:	110 VAC, 50-60 Hz, <1.0 KVA
Product Class:	Class 1 laser product containing a Class 4 laser device

Included Libraries

All elements from hydrogen to plutonium Selected alloys Selected chemical compounds



CLASS 1 LASER PRODUCT DO NOT DISASSEMBLE REFER SERVICE TO QUALIFIED PERSONNEL

LIBSoft[™] is a trade mark of Applied Photonics Ltd

© 2007 All rights reserved

Specifications subject to change without notice

 Telephone +44 (0)1756 708900
 Facsimile +44 (0)1756 708909
 Email mail@appliedphotonics.co.uk
 Web ww

 Applied Photonics Limited - Registered No. 3617150 - Registered Office: Unit 8, Carleton Business Park, Skipton, North Yor

