

ML3500 & Spiro USB

Portable spirometers

The ultimate portable spirometer, the **ML3500** spirometer has been specifically developed for the occupational health/primary health care professional. The **Spiro USB** is a PC based spirometer that connects directly into the USB port of a PC. Supplied with spirometry PC software, the **Spiro USB** provides a very mobile yet comprehensive spirometric facility.

Ease of use

Employing a high resolution colour touch screen with icon based functions and an integral printer the ML3500 is a very intuitive spirometer to use.

Quality control

All performed tests are presented with both the selected tests highlighted as well as the % variation from best. This combined with on screen prompts for slow start, low volume and short blow during the test allows a very high level of quality control.

Interpretation

Forty one parameters with actual, predicted and percent predicted values, as well as normal range with the option of interpretation and equivalent lung age can be reported. A full internal database allows complete patient recall on both data and measured loops.

Reporting

ML3500 test results may be shown on the colour screen, saved in memory, printed on an internal printer, and/or exported to the optional spirometry PC spirometry database.

The **Spiro USB** is supplied with spirometry PC software which has comprehensive data, analysis, trending display and transfer capabilities.

ML3500 AND SPIRO USB

- Equivalent 'lung age' assessment
- Real time colour display of either flow/volume or volume/time curve
- On screen predicted value and results interpretation
- Totally portable with supplied carrying case
- Customised printout format

ML3500

- Lightweight portable spirometer with icon based colour touch screen
- Integral high resolution printer and internal database (2000 tests)
- PC interface and optional software
- USB connectivity



Spiro USB



ML3500

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ML3500 and Spiro USB

Portable spirometers

Technical specifications (ML3500)

General	
Storage:	2000 patients with tests including Flow/Volume loops and Volume/Time graphs
Printer output (internal printer):	13mm/s (avg)
Power supply:	Input: 100-240V AC 50-60Hz Output: 12V 2.5A
Battery pack:	Rechargeable NiMH 8.4V 1Ah
Dimensions (mm):	255 x 120 x 35
Transducer	50 x 60 x 90
Weight:	Excluding any transducers: 630g
Temperature:	The instrument will operate in a uniform environment of 0°C-40°C, out of direct sunlight.
Operating humidity:	30-90% non-condensing
Storage temperature:	-20°C to +70°C
Storage humidity:	10% to 90% RH
Connectivity:	RS232 serial and USB 1.1

Technical specifications (Spiro USB)

General	
Dimensions (mm):	Transducer 50 x 60 x 90
Weight:	130g
Temperature:	0 to +40 C
Operating humidity:	30% to 90% RH
Storage temperature:	0 to +70 C
Storage humidity:	10% to 90% RH

PC system requirements

PC with Microsoft® windows 2000 or later
32 MB of RAM
50 MB of free hard drive space
Free serial port or USB port
Microsoft® internet Explorer version 4.0 or above
Video SVGA 800x600, 256 colour

Spirometry

Measurements and accuracy	
Measurements (forced):	VC, FEV.75, FEV1, FEV3, FEV6, FVC, PEF, FEV.75/VC, FEV.75/FVC, FEV1/VC, FEV1/FVC (FER), FEV3/VC, FEV3/FVC, FEV.75/FEV6, FEV1/FEV6, FEF25 (MEF75), FEF50 (MEF50), FEF75 (MEF25), FEF25-75 (MMEF), FEF50/VC, FEF50/FVC, MMEF/FVC (FEF25-75/FVC), FIV1, FIVC, PIF, FIV1/FIVC (FIR), FIF25 (MIF75), FIF50 (MIF50), FIF75 (MIF25), R50 (FEF50/FIF50), MET25-75, FET, MVV (ind)
Measurements (relaxed):	EVC, IVC, IC,VT (TV), ,Ti,Te,Ti/Ttot.,VT/Ti (TV/Ti), IRV, ERV, FR
Tests per subject:	5 relaxed VC manoeuvres and 8 forced manoeuvres for each baseline and two post examinations
Predicted values:	Various – depends upon national preference
Transducer:	Micro Medical Gold Standard Bi-Directional Digital Volume
Resolution:	10ml volume 0.03l/s flow
Accuracy:	+/-3%.To ATS/ERS 2005 Standardisation of spirometry for flows and volumes

Complete specification

For a complete specification of either product please contact Amplivox Ltd.

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