



For everyone



Spirodoc

Portable handheld spirometer

A portable handheld spirometer which brings a new standard to spirometry. Designed to be used as a standalone unit or connected to a PC, the Spirodoc fulfils all occupational health screening requirements for respiratory care within the workplace.

PC connectivity

The Spirodoc can be operated as a standalone unit via the integrated touchscreen or as a PC-based mobile spirometer. The included software (MIR Spiro) shows valuable trend graphs for proactive statistical analysis.

When used with MIR Spiro, the volume-time and flow-volume graphs are instantly displayed along with trending features that identify obstructive and restrictive test patterns.

Advanced technology

Incorporating an advanced user interface and touch screen technology, the Spirodoc has been intricately designed to minimise test times and to satisfy a wide range of user needs.

A complete range of spirometric parameters can be precisely measured and automatically interpreted, with all associated quality control indicators displayed for review.

Portability

Weighing only 130g (0.28lbs), the Spirodoc fulfils all occupational health screening requirements for portable spirometry equipment.

Functionality

Automatic interpretation including the new GLI standard and Z scores are clearly displayed as is the calculated automatic ERS quality control grading, which makes for a highly accurate test programme that can identify test subject test errors.

Hygiene

The Spirodoc allows for a variety of mouthpieces to be used in conjunction with an occupational screening programme ensuring safe and hygienic testing.

Optional disposable turbines with mouthpieces can be supplied as well as Bacterial viral filter (BVF) mouthpieces for a safe way to complete spirometry whilst providing reassurance to the patient.

Key features
ELA (years), FEF25/75
Measured parameters include VC, FVC, FEV1, FEV1/FVC (%), PEF
Automatic prediction display and LLN calculations
Automatic interpretation & Z score interpretation
Handheld device with touchscreen
Internal database with a capacity of 10,000 results

Visit www.amplivox.com/spirometry/spirodoc to learn more about the features and benefits of the Spirodoc

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Technical specifications

Flow sensor:	Bi-directional digital turbine
Flow range:	±16L/s
Volume accuracy:	±3% or 50mL, whichever is greater
Flow accuracy:	±5% or 200mL/s, whichever is greater
Dynamic resistance:	<0.5cmH ₂ O/L/s (at 12L/s)
Temperature sensor:	Semiconductor (0-45°C)
SpO ₂ range:	0-99%
SpO ₂ accuracy:	±2% (70-99% SpO ₂)
Heart rate range:	30-254BPM
Heart rate accuracy:	±2BPM or 2%, whichever is greater

Physical data

Power supply:	Lithium ion 3.7V, 1100mA rechargeable battery
Dimensions (L x W x H):	Central unit: 101 x 48 x 16mm Removable turbine head: 46 x 47 x 24mm
Weight (central unit):	Central unit: 99g / 0.21lbs Removable turbine head: 17g / 0.03lbs
PC connectivity:	USB 2.0, Bluetooth 2.1
Display:	LCD Backlit Touch screen
Resolution:	128 x 64 pixels
Data transmission:	USB 2.0 On-The-Go and Bluetooth® 2.1
Accelerometer:	Triaxial ± 2g, 400Hz sampling
Battery charger (optional):	100VAC - 240VAC, 50Hz-60Hz output 5VDC, 500mA, micro USB type B

Measured parameters

FVC, FEV₁, FEV₁/FVC%, FEV₃, FEV₃/FVC%, FEV₆, FEV₁/FEV₆%, PEF, FEF₂₅%, FEF₅₀%, FEF₇₅%, FEF₂₅-75%, FET, Estimated Lung Age, Extr. Vol, FIVC, FIV₁, FIV₁/FIVC%, PIF, VC, IVC, IC, ERV, FEV₁/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV, measured, MVV calculated

Please note: The Spirodoc is manufactured by MIR and distributed by Amplivox Ltd.

Standard equipment

- Re-usable turbine
- Noseclip
- MIR Spiro PC spirometry database software
- USB cable to PC
- Table support
- Carry case

Optional equipment

- 3L calibration syringe
- Disposable turbine and mouthpiece
- Disposable one-way mouthpiece
- Disposable BVF mouthpiece
- MIR Spiro PC spirometry software
- Optional PSU

