



For everyone

# Spirolab

All-in-one spirometer



The Spirolab is the ideal choice for healthcare professionals who need to conduct both mobile and static respiratory testing.

Combining extensive lung function testing along with PC connectivity, this all-in-one spirometer enables accurate monitoring of a patient's lung function and diagnosis of lung conditions.

## PC connectivity

The Spirolab features a built-in database holding up to 10,000 test results, which can be printed via the integrated printer or exported when needed.

The included software (MIR Spiro) shows valuable trend graphs for proactive statistical analysis. MIR Spiro provides a concise and complete test history which can show any developing obstructive or restrictive test patterns.

## Ergonomic design

Incorporating a large 7-inch colour touchscreen and icon-driven menu, the Spirolab makes spirometry testing intuitive and simple to review and navigate. The volume-time and flow-volume displays can be viewed simultaneously for more accurate, error-free test measurements.

## Portability

The Spirolab can be battery operated or mains powered and is supplied with a custom designed carry case for mobile use.

## Functionality

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

Automatic BTPS conversion, an internal memory capacity of up to 10,000 records, and a wide range of prediction values ensures fast and accurate standardised results that are automatically recorded for future review.

## Hygiene

The Spirolab 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

Measured parameters include VC, FVC, FEV1, FEV1/FEC (%), PEF, ELA (years), FEF25/75

Automatic prediction display and LLN calculations

Automatic interpretation & Z score interpretation

Integrated printer

Large 7-inch colour touchscreen

Internal database with a capacity of 10,000 results

Battery or mains powered

Visit [www.amplivox.com/spirometry/spirolab](http://www.amplivox.com/spirometry/spirolab) to learn more about the features and benefits of the Spirolab

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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 <sub>2</sub> O/L/s (at 12L/s)
Temperature sensor:	Semiconductor (0-45°C)
Display:	7-inch colour touch screen LCD display
Resolution:	800 x 400

### Standard equipment

- Turbine transducer
- Built-in printer
- MIR Spiro PC spirometry database software
- USB cable to PC
- Thermal printer paper rolls
- Carry case

### Optional equipment

- 3L calibration syringe
- Disposable turbine and mouthpiece
- Disposable one-way mouthpiece
- Disposable BVF mouthpiece
- MIR Spiro (Platinum)
- Thermal printer paper rolls

### Physical data

Power supply:	Rechargeable battery NiMH 7.2V battery pack (6 batteries, 1.2V each) 4000mAh and mains charger AC/DC12W-NIEFM
Dimensions (L x W x H):	220 x 210 x 51 mm
Weight (central unit):	1600g / 3.52lbs (with battery installed)
PC connectivity:	USB 2.0, Bluetooth 2.1

### Measured parameters

FVC, FEV1, FEV1/FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25-75, FEF75-85, Lung Age, ExtrapolatedVolume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV6, FEV1/FEV6, FEV1/PEF, FEV1/FEV0.5, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, tI, tE, VT/tI, tE/tTOT, MVV (measured), MVV (calculated)



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