



**MIR**  
MEDICAL INTERNATIONAL RESEARCH

## Spirolab III<sup>®</sup>

Fast, simple, durable  
diagnostic spirometer  
with oximetry option

[www.spirometry.com](http://www.spirometry.com)  
[www.oximetry.com](http://www.oximetry.com)

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## Highly portable Desktop spirometer with large test memory capacity and built in printer

- FVC, VC with breathing pattern plus MVV tests with real time curves.
- High resolution color display.
- Simple icon based menu on the keyboard.
- PRE test and related POST test are shown superimposed.
- 6000 test memory and upto 8 tests on screen.
- Selectable languages and predicted values.
- Customisable printout format.
- Connectivity: USB , RS232 and Bluetooth®

## Ideal for Screening Easy diagnosis

Spirolab III® is a multitasking and versatile spirometer ideal for accurate and early diagnosis of respiratory diseases (like COPD and Asthma). Spirolab III® is easy to use for family doctors screening or pharmacy quick tests.

## Oximetry option Different types of oximetry tests including sleep and exercise tests

- Spot oximetry.
- Bed side sleep oximetry with desaturation events recording.
- Oximetry during exercise test.



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## Suitable for children Exclusive pediatric incentive MIR exclusive patent

Amusing on screen paediatric incentive program which can be useful to help a child (or elderly people) to make a correct spirometry test.

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## MIR Turbine Flowmeters (comply with ATS/ERS standards)



### Option available: reusable turbine

The accuracy and the precision of the reusable turbine remains unchanged even over time.

### FlowMIR®: disposable turbine

Spirometry testing requires maximum accuracy and hygiene. FlowMir® is the answer to both requirements. Each turbine is factory calibrated with a computerized system and it is packaged individually in a clean room. 100% hygiene guaranteed!



Spirolab III® comes in a robust and lightweight carrying case.

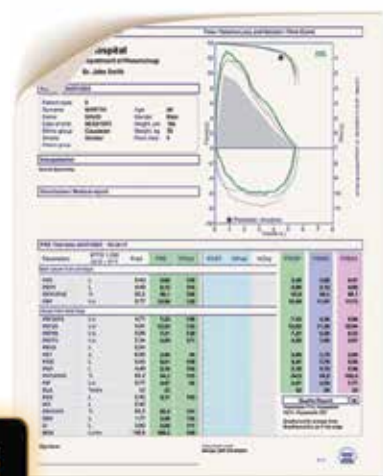
## New WinspiroPRO®

High performance PC software for spirometry and oximetry  
(always included with free software upgrades)

Network Version available.




Summary of all tests carried out



Printout:  
Spirometry report

## Spirolab III<sup>®</sup> - Spirometry - Technical specifications

- **Power supply:** Rechargeable battery and mains power
- **Temperature sensor:** semiconductor (0-45°C)
- **Flow sensor:** bi-directional digital turbine
- **Flow range:** ±16L/s - Volume accuracy: ±3% or 50mL
- **Flow accuracy:** ±5% or 200mL/s
- **Dynamic resistance:** <0.5 cmH<sub>2</sub>O/L/s
- **Connectivity:** USB, RS232 and Bluetooth<sup>®</sup> 
- **Display:** FSTN graphic, 320 × 240 pixel
- **Printer/paper:** Thermal, 4.4 inch (112 mm) width
- **Mouthpieces:** Ø 1.18 inch (30 mm)
- **Dimensions:** 12.2×8.1×2.6 inch (310×205×65 mm)
- **Weight:** 4.2 lbs. (1.9 Kg)

### Measured parameters:

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

## Spirolab III<sup>®</sup> - Oximetry - Technical specifications

- **SpO<sub>2</sub> range:** 0-99%
- **SpO<sub>2</sub> accuracy:** ± 2% between 70-99% SpO<sub>2</sub>
- **Pulse Rate range:** 30-254 BPM
- **Pulse Rate accuracy:** ± 2BPM or 2%
- **Sleep test:**
  - Rapid Desaturation Analysis < 2,5 min. (ODI)
  - Prolonged Desaturation Analysis > 5 min. (NOD)
  - % Bradycardia Duration (<40 BPM)
  - % Tachycardia Duration (>120 BPM)
  - % of Time with SpO<sub>2</sub> ≤ 90%, 89%, 88% (T90%, T89%, T88%)
- **Exercise test:** Baseline, exercise, recovery with dyspnea and fatigue data entry.



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