Spirolab III®

Fast, simple, durable
Diagnostic spirometer
with oximetry option

3rd Generation Laboratory

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

Suitable for children Exclusive pediatric incentive MIR exclusive patent

Oximetry Option Different types of oximetry tests including sleep and exercise tests

Ideal for Screening Easy remote diagnosis and tele-consulting
Spirolab III®

Oximetry option for a variety of tests


Highly portable Desktop spirometer

FVC, VC with breathing pattern plus MVV tests with real time curves. High resolution color display (also available Black and White option). Simple icon based menu on the keyboard. PRE test and related POST test are shown superimposed. 6000 test memory and up to 8 tests on screen. Selectable language and predicted values. Customizable printout format. Connectivity: USB and RS232.

Ideal for Screening

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.

Exclusive pediatric incentive system

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

Teleconsulting and Clinical Trials

It is also indicated for Clinical Trials. These studies often enroll large numbers of people and are conducted at many doctors’ offices, clinics, and centers globally. Data recorded by Spirolab III® can be easily transmitted via FTP connection.
New WinspiroPRO®
High performance PC software for spirometry and oximetry

WinspiroPRO® is a unique featured PC software, which comes standard with all MIR spirometers and oximeters. All tests memorized in Spirolab III® can be downloaded into WinspiroPRO® and a patient data card is created automatically, with a preview of the spirometry curve. The spirometry incentive routine (MIR patent), allows the user to select the patient’s favourite image in order to get his maximum compliance.

This software also gives trend of any parameter so is ideal for clinical trials and telemedicine.

HL7 Interface for a remote connection with the Hospital Management System.

WinspiroPRO® can easily be connected to a database or to an EMR, Hospital or Occupational Health System.

Network Version available.

Comprehensive patient records

All patient records are shown on simple, single-screen patient cards, with dynamic management of all data and graphs including SpO2 measurements during the corresponding test: spot, sleep and exercise.
Spirolab III® along with all standard accessories (winspiroPRO CD, user manual CD, oximetry sensor, if available) comes in a robust and lightweight carrying case.

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

**FlowMIR: disposable turbine**

Spirometry testing requires maximum accuracy and hygiene. FlowMIR is the answer to both requirements. Each turbine is calibrated with a computerized system and it is packaged individually. After patient testing both turbine and mouthpiece are thrown away. Only in this way 100% hygiene can be guaranteed.

**Option available: reusable turbine**

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

**Spirolab III® Spirometer**

**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 cmH2O/L/s
- **Connectivity:** USB and RS232
- **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, FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV

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**Spirolab III® Spirometer with SpO2 Opt**

**Technical specifications**

- **SpO2 range:** 0-99%
- **SpO2 accuracy:** ±2% between 70-99% SpO2
- **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 SpO2 < 90% (T90%, T89%, T88%, T87%)**
- **Exercise test:** Baseline, exercise, recovery with dyspnea and fatigue data entry.