



New!  
3rd generation

# spiro**lab**® III

diagnostic spirometer  
with oximetry option

Fast  
Simple  
Durable  
Accurate  
Powerful  
Innovative

- Spirometer with 6,000 test memory
- Oximeter with 1,000 hours of recording
- Available with disposable or reusable turbine flowmeter



Telemedicine  
option

SpO2  
option



Remote  
diagnosis via  
web also with  
Bluetooth®  
connection



PC software  
included



Quality Instruments

FDA	ATS	ISO	ISO
Approved	Standard	9001-2000	13485



Quality Instruments

**spirolab<sup>®</sup> III**  
complies with  
the new ATS  
standard

## Spirometer

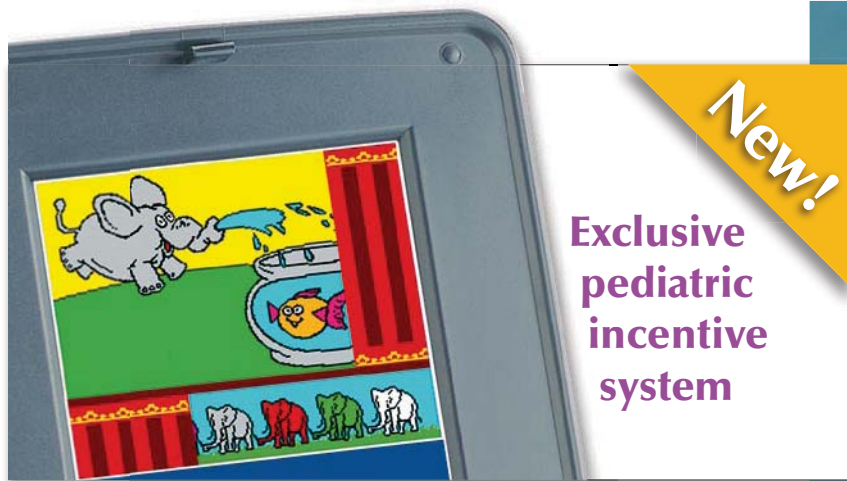
- Records the best 3 trials
- Up to 8 tests on one screen
- Internal temperature sensor for BTPS conversion



## SpO2 Option

- Short or long term (overnight) SpO2 and Pulse Rate measurements
- ODI, NOD, T90%, T89%, T88%, T87%
- Sleep oximetry with desaturation events
- Oximetry during exercise test





Exclusive  
pediatric  
incentive  
system

# spirolab<sup>®</sup> III

diagnostic spirometer  
with oximetry option

Standard device  
includes:  
spirolab<sup>®</sup> III  
winspiroPRO CD  
Carrying case

FVC, VC with breathing pattern plus  
MVV tests with real time curves

- High resolution color screen
- Fast and silent thermal printer
- Digital turbine flowmeter with guaranteed accuracy in all environmental condition
- PRE-POST bronchodilator comparison
- Selectable language and predicted values
- Connectivity: USB, **Bluetooth<sup>®</sup>** and RS232



## Two different flowmeters available

### FlowMir disposable turbine for single patient use

- High accuracy
- Easy to replace
- Cost Effective
- Individually tested and calibrated
- Available in box of 100 pieces
- No maintenance – No filter – No problem
- Hygiene 100% guaranteed by single packaging



### Reusable turbine for long term operation

- High accuracy
- Long term stability
- Easy to clean or sanitized

MIR digital reusable and disposable turbines  
are developed in full compliance with ATS standards  
and guarantee accuracy in all environmental conditions



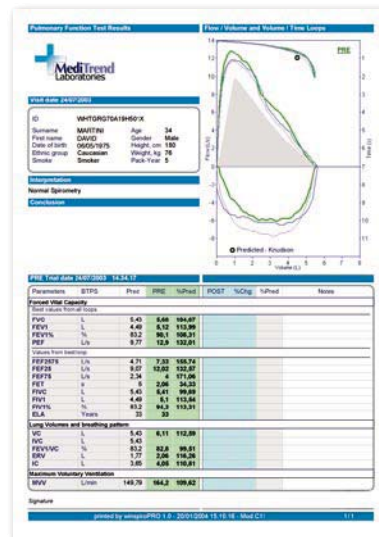
MIR Exclusive Patent



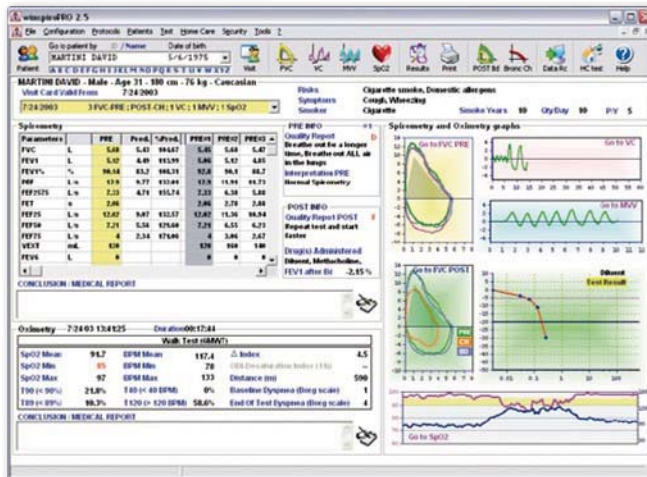
Sample oximetry  
printout Exercise Test.  
Other examples available



Screen shot  
with complete  
test summary



Printout with  
spirometry report



## spirolab<sup>®</sup> 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 cmH<sub>2</sub>O/L/s
- Connectivity: USB, Bluetooth<sup>®</sup>, 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, 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

## SpO2 Option

### 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%

### winspiroPRO PC Software

- SpO2 and Pulse Rate graphic trend
- Flexible reporting with several printout categories
- Statistical analysis of desaturation events

## winspiroPRO PC Software

- Online PC connection with icon interface
- Real time Flow/Volume loop and Volume/time curves
- Bronchial challenge with FEV1 dose-response
- Integration with Electronic Medical Record
- Pediatric incentive animations
- Lung age estimation
- Data and graphs export also via e-mail

## Available options

- PC Software **winspiroPRO NET** (network)
- Adult reusable SpO2 finger probe
- Adult disposable SpO2 finger probe
- Pediatric reusable SpO2 finger probe
- Infant disposable SpO2 probe
- Neonatal disposable SpO2 probe
- Ear clip SpO2 probe
- SpO2 finger probe extension cable

## MIR - Medical International Research USA, Inc.

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