



Fast  
Simple  
Durable  
Accurate  
Powerful  
Innovative

# spirolab III

diagnostic spirometer  
with oximetry option

New!  
3rd generation



Spirometer with 6,000 test memory  
Oximeter with 1,000 hours recording  
Bluetooth® connection  
Available with disposable or reusable  
digital turbine flowmeter



Quality Spirometry

CE

0476

FDA  
Registered

ATS-ERS  
Standards

ISO  
9001-2000

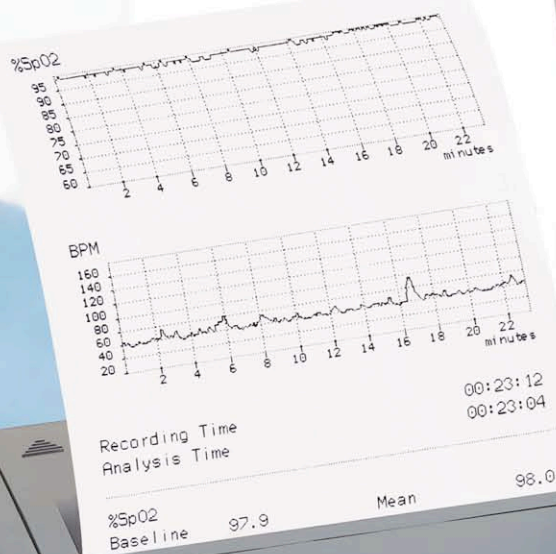
ISO  
13485



Quality Spirometry

### Spirometer

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



### Finger Oximeter (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



**New!**

**Exclusive  
paediatric  
incentive  
system**

# spirolab *III*

**diagnostic spirometer  
with oximetry option**

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

- High resolution colour screen
- Fast but silent thermal printer
- Digital turbine flow meter with guaranteed accuracy in all environmental conditions
- PRE-POST bronchodilator comparison
- Selectable language and predicted values
- Connectivity: USB, **Bluetooth®** and RS232



Standard device  
includes:  
Spirolab *III*  
winspiroPRO CD  
Carrying case

## **Two different flowmeters**

### **Reusable turbine for long term use**

- High accuracy
- Long term stability
- Easy to clean

### **Disposable turbine for single patient use**

- Very low cost
- High accuracy
- Maximum hygiene guaranteed
- Available in boxes of 100 pieces
- Easy to replace no calibration needed

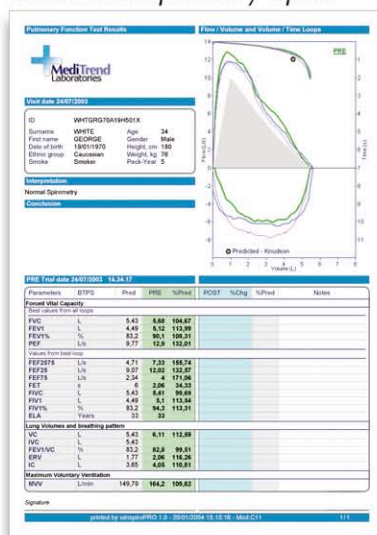
*International patent pending*



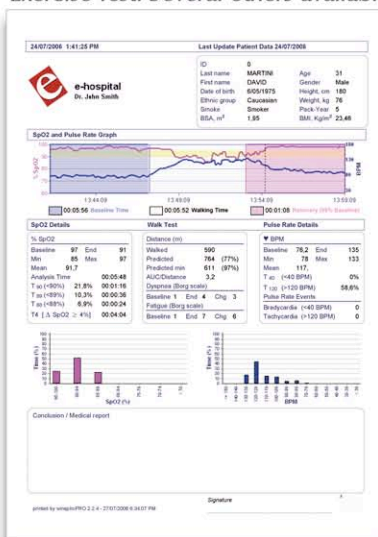
**World's  
first  
disposable  
turbine**

**New!**

## Printout with spirometry report



## Sample oximetry printout Exercise Test. Several others available



## winspiroPRO Software

- On-line PC connection with icon interface
- Real time Flow/Volume and Volume/time curves
- Bronchial challenge with FEV1 dose-response
- Integration with Electronic Medical Record
- Paediatric incentive animations
- Lung age estimation
- Data and graphs export also via **E-mail**

## spirolab III Spirometer

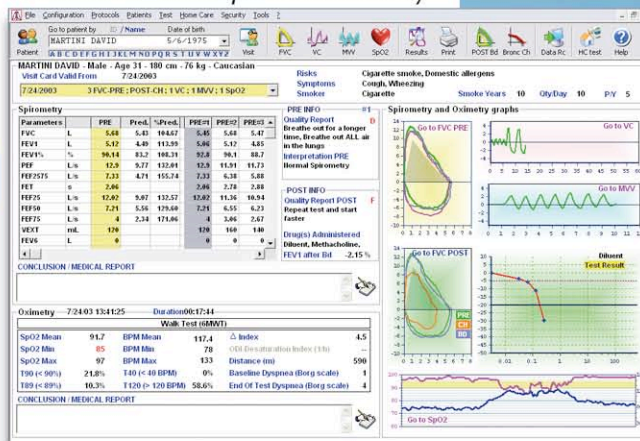
### Technical specifications

Power supply: Rechargeable battery and mains power  
 Temperature sensor: semiconductor (0-45°C)  
 Flow sensor: bi-directional digital turbine  
 Flow range:  $\pm 16$  L/s  
 Volume accuracy:  $\pm 3\%$  or 50 mL  
 Flow accuracy:  $\pm 5\%$  or 200 mL/s  
 Dynamic resistance:  $<0.5$  cmH<sub>2</sub>O/L/s  
 Connectivity: USB, Bluetooth, RS 232  
 Display: FSTN graphic, 320x240 pixel  
 Printer/paper: Thermal, 112 mm width  
 Mouthpieces: 30 mm external diameter  
 Dimensions: 310 x 205 x 65 mm  
 Weight: 1,9 Kg circa

### Measured parameters

FVC, FEV1, FEV1/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, FIVC, FIV1, FIV1/FIVC%, PIF, \*FVC, \*FEV1, \*PEF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV (\* Best value)

## Screen shot with complete test summary



## Option: Finger Oximeter

### Technical specifications

SpO2 range: 0-99%  
 SpO2 accuracy:  $\pm 2\%$  between 70-99% SpO2  
 Pulse Rate range: 30-254 BPM  
 Pulse Rate accuracy:  $\pm 2$  BPM or 2%

### winspiroPRO Software

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

## MIR

Via del Maggolino, 125  
 00155 Roma - Italy  
 tel. +39 06.22754777  
 fax +39 06.22754785

www.spirometry.com  
 mir@spirometry.com



Smaller,  
lighter, faster,  
more powerful,  
simple to use  
and accurate,  
Spirolab II  
has it all

# spirolab II

Diagnostic spirometer  
with high resolution  
colour display

New  
PC software



Quality Spirometry

CE  
0476

FDA  
approved

ATS  
certified

ISO  
9001-2000

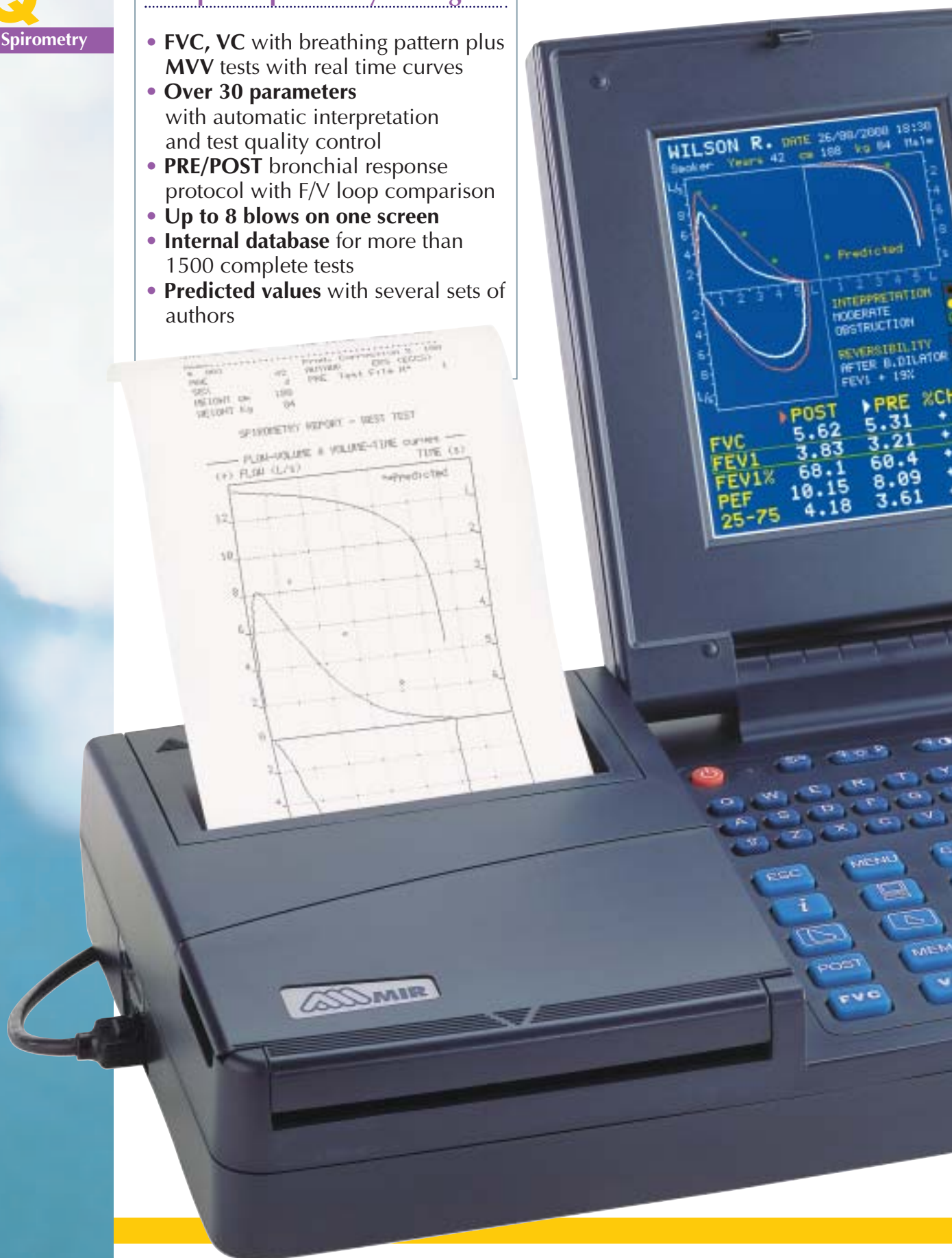
ISO  
13485



Quality Spirometry

## Complete spirometry testing

- **FVC, VC** with breathing pattern plus **MVV** tests with real time curves
- **Over 30 parameters** with automatic interpretation and test quality control
- **PRE/POST** bronchial response protocol with F/V loop comparison
- **Up to 8 blows on one screen**
- **Internal database** for more than 1500 complete tests
- **Predicted values** with several sets of authors



# spirolab II

Diagnostic spirometer  
with high resolution  
colour display



## Versatile portable spirometry

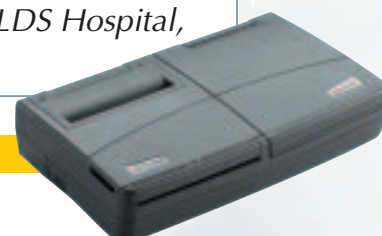
- **External printer** direct connection
- **Only 1.9 kg** for truly portable spirometry
- **Silent thermal printer** full spirometric report prints in seconds
- **Rechargeable battery** plus mains power
- **User-friendly keyboard** with dedicated function keys plus alphanumeric data entry
- **Internal temperature sensor** for automatic BTPS conversion
- **Upgradeable internal software** by connecting to the PC  
Latest version always available at our site [www.spirometry.com](http://www.spirometry.com)



## Quality spirometry, precise measurement

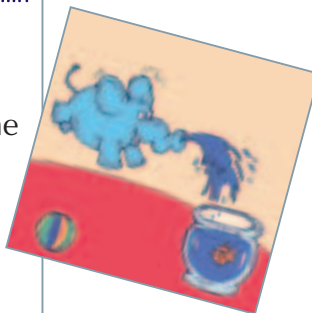
**The proven MIR digital turbine**  
flow sensor requires no calibration and  
complies with ATS 24/26 waveforms.

*Certified by Dr. Crapo at LDS Hospital,  
Salt Lake City - Utah*

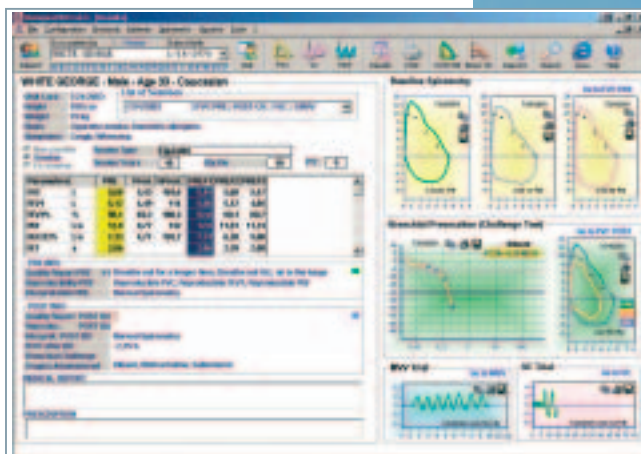
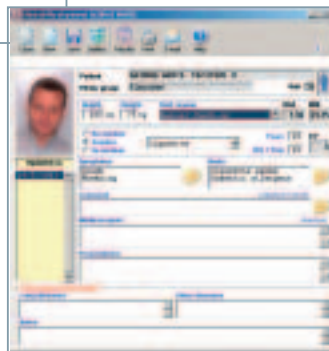


## On-Line PC connection

- WinspiroPRO software turns the **spiroLab II** into an on-line clinical spirometer with the Flow/Volume curve shown on PC in real time
- **PRE-POST** bronchial challenge test
- **FEV1** dose-response curves
- **Lung Age** estimation
- **Includes** a series of user-selectable, and amusing, **paediatric incentive animations**



## Printout with a complete spirometry report



## Technical specification

### Power supply:

Rechargeable battery and mains power

### Temperature sensor:

Semiconductor 0-45° C

### Flow and volume transducer:

digital turbine

### Flow/volume range:

± 16 Ls<sup>-1</sup> / 10 L, BTPS

### Volume accuracy:

± 3% or 50 mL

### Flow accuracy:

± 5% or 200 mL/s

### Dynamic resistance:

<0.8 cm H<sub>2</sub>O/L/s

### Colour display:

FSTN 240x320

### Printer/paper:

Thermal, 112 mm width

### Mouthpieces:

30 mm external diameter

### Serial output:

RS 232, optoisolated

### Dimensions:

310 x 205 x 65 mm

### Weight:

1,9 Kg circa

### Parameters:

FVC, FEV1, FEV1%, FEV6, FEV6%, FEV1/FEV6%, PEF, FEF25-75%, FEF25%, FEF50%, FEF75%, FET, Vext, \*FVC, \*FEV1, \*PEF, PIF, FIVC, FIV1, FIV1%, VC, IVC, ERV, IC, VT, VE, BF, Ti, Te, Ti/Ttot, VT/Ti, MVV

### Carrying-case included

## MIR

Via del Maggiolino, 125

00155 Roma - Italy

tel. +39 06.22754777

fax +39 06.22754785

www.spirometry.com

mir@spirometry.com

**spiroLab II** is certified by the ATS and conforms to ERS standards

MIR reserves the right to modify the technical characteristics at any time





# spirolab

Diagnostic spirometer  
with high resolution  
graphic display

New  
version!

Ideal for mobile  
spirometry  
testing,  
spirolab is simple  
and rapid to use  
and requires  
no calibration



Quality Spirometry

FDA  
registered

ATS  
standard

ISO  
9001

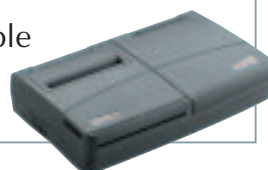
EN  
46001

## Complete spirometry testing

- **FVC, VC** with breathing pattern plus **MVV** tests with real time curves
- **Over 30 parameters** with automatic interpretation and test quality control
- **PRE/POST** bronchial response protocol with F/V loop comparison
- **FEV1/drug** administration trend

## Versatile portable spirometry

- **External printer** direct connection
- **Internal database** for several hundred complete tests
- **Predicted values** with several sets of authors
- **Only 1.9 kg** for truly portable spirometry



## Stand alone spirometry

- **Silent thermal printer** full spirometric report prints in seconds
- **Rechargeable battery** plus mains power
- **User-friendly keyboard** with dedicated function keys plus alphanumeric data entry

## Quality spirometry precise measurement

**The proven MIR digital turbine flow sensor** requires no calibration and complies with the severe ATS 24/26 waveforms.



### Technical specification

**Power supply:** rechargeable battery and mains power

**Temperature sensor:** Semiconductor 0-45° C

**Flow and volume transducer:** digital turbine

**Flow/volume range:** ± 16 Ls<sup>-1</sup> / 10 L, BTPS

**Volume accuracy:** ± 3% or 50 mL

**Flow accuracy:** ± 5% or 200 mL/s

**Dynamic resistance:**

<0.8 cm H<sub>2</sub>O/L/s

**Monochromatic display:** FSTN 240x320

**Printer/paper:** Thermal, 112 mm width

**Mouthpieces:** 30 mm external diameter

**Serial output:** RS 232, optoisolated

**Dimensions:** 310 x 205 x 65 mm

**Weight:** 1,9 Kg circa

**Parameters:**

FVC, FEV1, FEV1%, FEV6, FEV6%, FEV1/FEV6%, PEF, FEF25-75%, FEF25%, FEF50%, FEF75%, FET, Vext, PIF, FIVC, FIV1, FIV1%, VC, IVC, ERV, IC, VT, VE, BF, Ti, Te, Ti/Ttot, VT/Ti, MVV

**spirolab** meets the ATS and ERS standards.

**Option:** carrying-case, PC software

**MIR**

Via del Maggiolino, 125  
00155 Roma - Italy  
tel. +39-0622754777  
fax +39-0622754785

www.spirometry.com  
mir@spirometry.com



# spirobank II

**World First  
Unrivalled features  
in one single device**

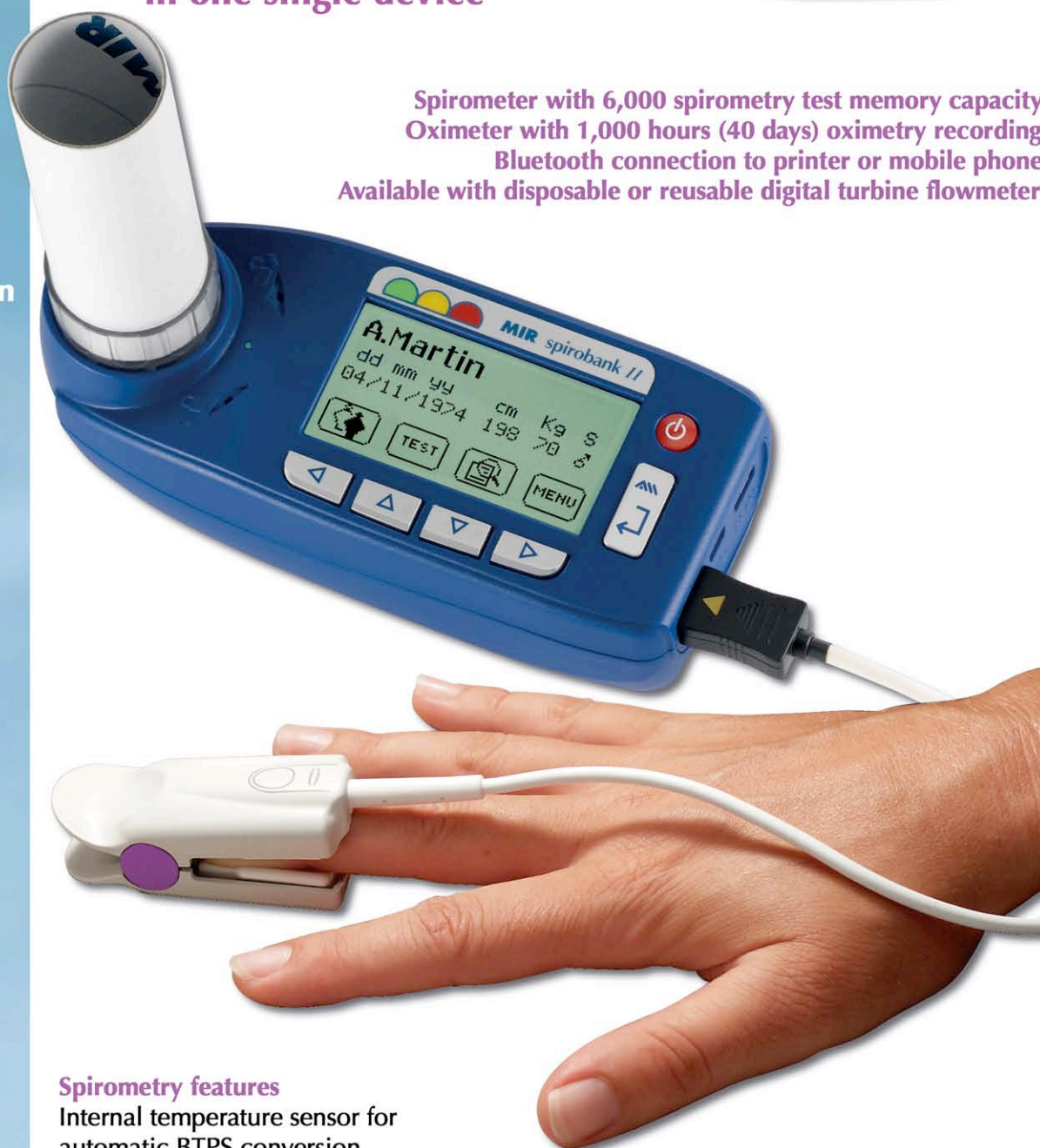
**New option  
disposable turbine**



**Spirometer with 6,000 spirometry test memory capacity  
Oximeter with 1,000 hours (40 days) oximetry recording  
Bluetooth connection to printer or mobile phone  
Available with disposable or reusable digital turbine flowmeter**

**PC connection  
via USB  
or RS 232**

**www.spirometry.com**



## **Spirometry features**

- Internal temperature sensor for automatic BTPS conversion
- High resolution/high visibility graphic display
- Patient identification by name or ID code
- Automatically records the best 3 trials

## **Option: SpO2 module**

- Short or long term (overnight) SpO2 and Heart Rate measurements
- ODI, NOD, T90%, T89% and T88% calculation
- Sleep apnea detection with desaturation events recording
- Walking test (6MWT) with SpO2 and Heart Rate analysis

## Portable multipurpose and multifunction spirometer

### Spirometry features and measured parameters

FVC, FEV1, FEV1/FVC%, FEV6, FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, FIVC, FIV1, FIV1/FIVC%, PIF, \*FVC, \*FEV1, \*PEF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV (\* Best value)

No calibration required

PRE-POST bronchodilator comparison

Spirometry interpretation with test quality assurance

### WinspiroPRO PC Software - Spirometry program

On line PC connection with simple to use icon-based interface

Flow/Volume and Volume/time curve shown in real time on PC

Bronchial challenge test with FEV1 dose-response curve

Includes a series of user-selectable paediatric incentive animations

Data and graphs export also via e-mail

Lung age estimation

### Technical specifications - Spirometer

Temperature sensor: semiconductor (0-45°C)

Flow sensor: bi-directional digital turbine

Flow range:  $\pm 16$  L/s

Volume accuracy:  $\pm 3\%$  or 50 mL

Flow accuracy:  $\pm 5\%$  or 200 mL/s

Dynamic resistance at 12 L/s:  $<0.5$  cmH<sub>2</sub>O/L/s

Display: STN graphic, 128x64 pixel

Keyboard: membrane, 6 Keys

Connectivity and data transmission: USB, Bluetooth, wireless internal modem for acoustic coupling

to telephone (telemedicine applications),

RS 232 (cable on request)

Power Supply: 4 x 1.5 V, AAA battery

Weight: 180 grams battery included

Dimension: 60x145x30 mm

### Option: SpO2 module

### Technical specifications - Oximeter

SpO2 range: 0-99%

SpO2 accuracy:  $\pm 2\%$  between 70-99% SpO2

Heart Rate range: 30-254 BPM

Heart Rate accuracy:  $\pm 2$  BPM or 2%, whichever is greater

### WinspiroPRO PC Software - Oximetry program

Complete SpO2 and Heart Rate graphic analysis

PC on line test with real time SpO2 and HR profile

Statistic analysis for assessing desaturation events

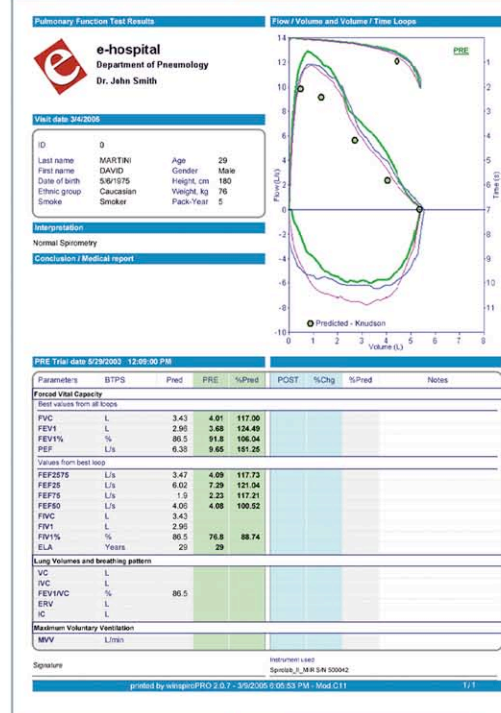
Standard price includes:

USB cable

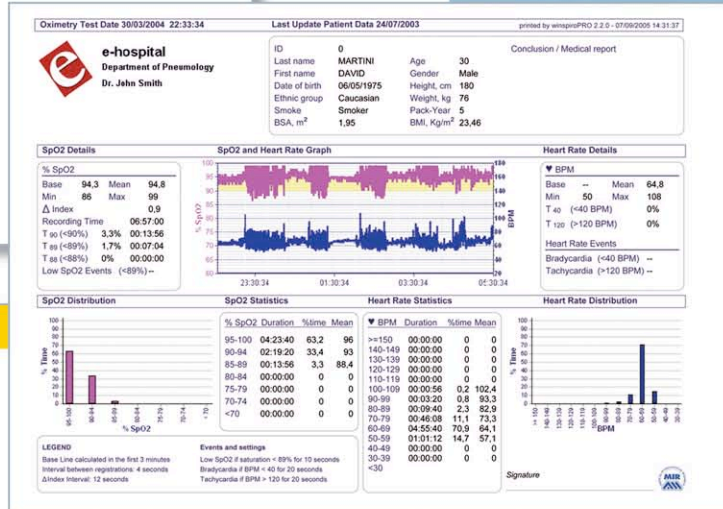
Carrying case

WinspiroPRO software CD for spirometry

Printout  
with complete  
spirometry report



One of the  
oximetry report  
printouts available



MIR  
Via del Maggiolino, 125  
00155 Roma - Italy  
tel +39 06.22754777  
fax +39 06.22754785

www.spirometry.com  
mir@spirometry.com

MIR reserves the right to modify the technical characteristics at any time



# MiniSpir

Portable  
USB Spirometer

New option  
disposable turbine



Plugs directly into the USB socket on your PC  
No batteries and no other connection required  
Internal temperature sensor for automatic BTPS conversion  
Available with disposable or reusable digital turbine flowmeter

www.spirometry.com



## Technical data

### Portable USB spirometer: measured parameters

FVC, FEV1, FEV1/FVC%, FEV6, FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, FIVC, FIV1, FIV1/FIVC%, PIF, \*FVC, \*FEV1, \*PEF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV (\* Best value)

### WinspiroPRO PC software - Spirometry program

On line PC connection with simple to use icon-based interface  
Flow/Volume and Volume/time curve shown in real time on PC  
Lung age estimation

PRE-POST bronchodilator comparison

Bronchial challenge test with FEV1 dose-response curve

Spirometry interpretation with test quality assurance

Includes a series of user-selectable and amusing

paediatric incentive animations

Powerful database facilities

Printout with complete spirometry report

Data and graphs export also via e-mail

### Technical specification

Temperature sensor: semiconductor (0-45°C)

Flow sensor: bi-directional digital turbine

Flow range:  $\pm 16$  L/s

Volume accuracy:  $\pm 3\%$  or 50 mL

Flow accuracy:  $\pm 5\%$  or 200 mL/s

Dynamic resistance at 12 L/s:  $<0.5$  cmH<sub>2</sub>O/L/s

Communication port: USB

Power Supply: line powered from USB port

Dimension: 52x128x26 mm

Weight: 60 grams

### PC System Requirements

Microsoft Windows: 98 (Second Edition), 2000, Me, XP

Minimum CPU: clock 300 Mhz

Minimum RAM: 64 MB

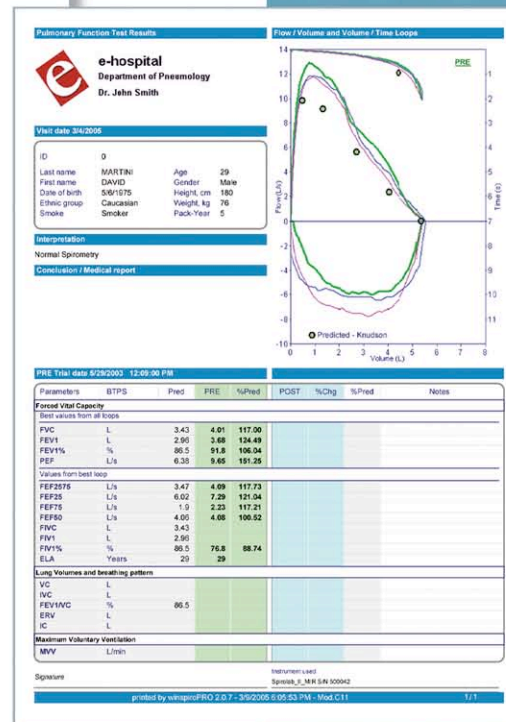
Recommended RAM: 128 MB

Screen resolution: 1024 x 768

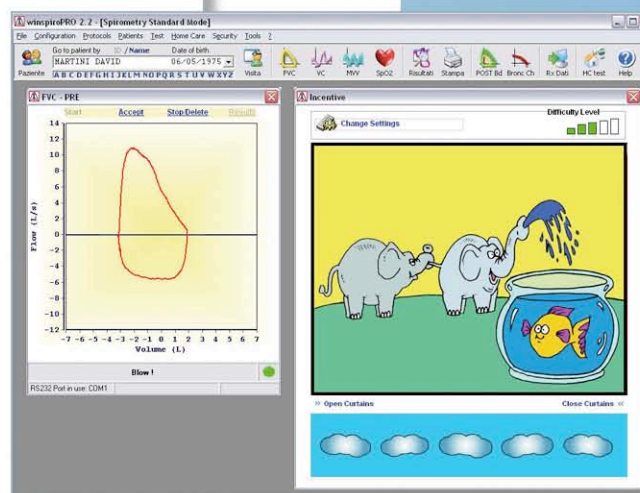
Hard disk space required: 160MB

USB socket available

Printout  
with complete  
spirometry report



One of the many  
paediatric incentive  
animations



Standard price includes:

USB cable

Carrying case

WinspiroPRO software CD for spirometry



MIR

Via del Maggiolino, 125  
00155 Roma - Italy  
tel +39 06.22754777  
fax +39 06.22754785

www.spirometry.com  
mir@spirometry.com

MIR reserves the right to modify the technical characteristics at any time



# spirobank

Multifunction spirometer  
with alphanumeric display



New  
option  
disposable turbine

Stand-alone and  
on-line PC  
operation

Direct parallel  
printer connection

Automatic test  
interpretation

Reusable or  
disposable  
flowmeter  
available

No calibration  
required

## spirobankG

Multifunction spirometer  
with graphic display



Quality spirometry

CE

0476

FDA

Approved

ATS

Certified

ISO

9001-2000

ISO

13485



MIR turbines  
are developed in  
full compliance  
with ATS  
standards and  
do not require  
calibration

# spirobank

Multifunction spirometer  
with alphanumeric display



## Choose between two different flowmeters

NEW

### Reusable turbine for long term operation

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

### Disposable turbine for single patient use

- High accuracy
- Maximum hygiene guaranteed
- Easy replaceable without calibration
- Very low cost
- Available in boxes of 100 pieces



World's First!  
Disposable turbine

International patent pending

## Stand-alone spirometer

- **FVC, VC and MVV** tests with **PRE/POST** comparison
- **26 parameters** with automatic test interpretation and test quality control
- **Up to 100 test** memory capacity
- Internal temperature sensor for automatic BTPS conversion
- **Several sets of predicted values**
- Upgradeable internal software via internet at [www.spirometry.com](http://www.spirometry.com)
- **On-line PC connection**

## Easy telemedicine application

- By using a special (optional) **internal software**, stored data can be transmitted via modem for **telemedicine applications**

## Direct printer connection

- Stored test results can be printed by connecting the unit directly to a standard parallel printer.
- The **printout** gives a **full spirometry report** with **Flow/Volume curve**, results plus predicted values



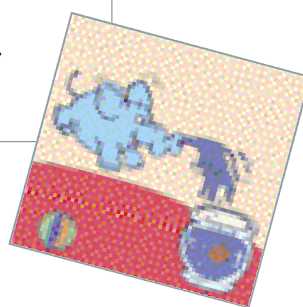
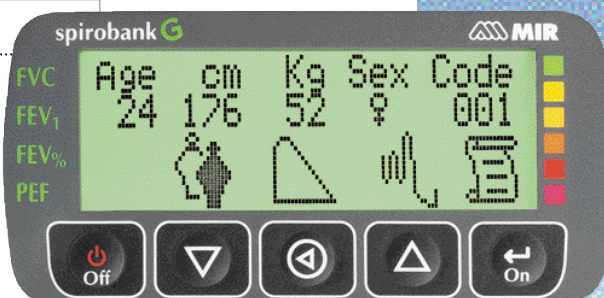


# spiobankG

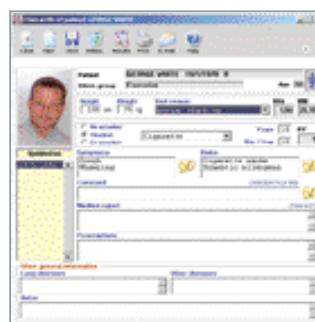
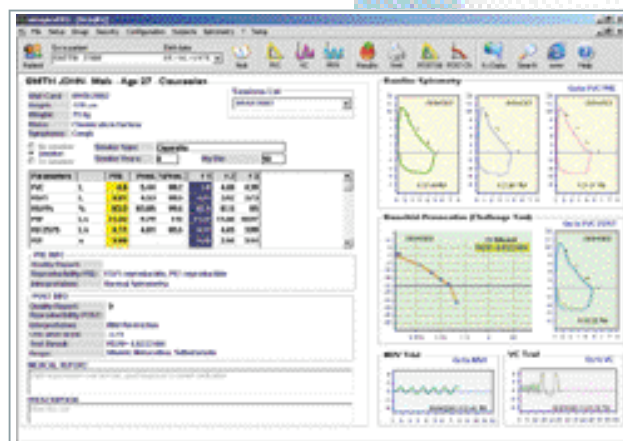
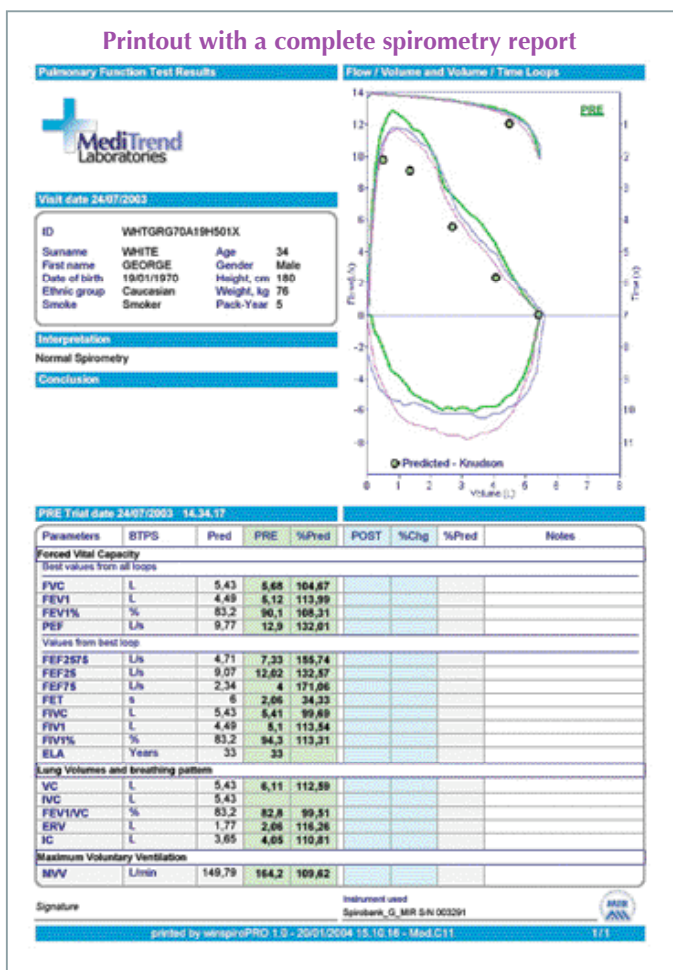
Multifunction spirometer  
with graphic display

## On-Line PC connection

- **WinspiroPRO software** turns spiobank and spiobankG into an on-line clinical spirometer with the Flow/Volume curve shown on PC in real time
- **PRE-POST** bronchial challenge test
- **FEV1** dose-response curves
- **Lung Age** estimation
- **Includes** a series of user-selectable, and amusing, paediatric incentive animations



## Printout with a complete spirometry report



Note: spiobank and spiobankG have the same set of options, the only variation is the display

## Parameters Measured

**Forced vital capacity:** FVC, FEV1, FEV1/FVC%, FEV6, FEV6%, PEF, FEF25, FEF50, FEF75, FEF25-75, FET, Vext, \*FVC, \*FEV1, \*PEF, FIVC, FIV1, FIV1/FIVC%, PIF

**Slow vital capacity:** VC, IVC, IC, ERV, FEV1/VC%

**Breathing pattern:** VT, VE, Rf, ti, te, ti/ttot, VT/ti

**Max voluntary ventilation:** MVV

(\* = Best value)

## TECHNICAL SPECIFICATION

**Temperature sensor:** semiconductor (0-45 °C)

**Flow sensor:** infrared interruption

**Max volume:** 10 L

**Flow range:**  $\pm 16$  L/s

**Volume accuracy:**  $\pm 3\%$  or 50 mL, whichever is greater

**Flow accuracy:**  $\pm 5\%$  or 200 mL/s, whichever is greater

**Dynamic resistance at 12L/s:**  $<0.5$  cmH<sub>2</sub>O/L/s

**Display (SpirobankG):** 120 x 32 pixel, graphic LCD

**Display (Spirobank):** 16 characters x 2 lines, alphanumeric LCD

**Keyboard:** 5 keys

**Communication port:** RS-232, bidirectional

**Power supply:** 9V DC (PP3 battery)

**Dimensions:** 162 x 49 x 34 mm

**Weight:** 180 grams (with battery)



## Standard equipment

- **Reusable turbine** for long term operation
- New winspiroPRO PC software
- RS-232 Interface cable
- 2 paper mouthpieces  $\varnothing$  30mm
- 1 plastic noseclip
- Carrying bag



## Options

- **Disposable turbine** for single patient use  
*available in boxes of 100 pieces*
- USB to RS232 converter cable
- RS232 to parallel printer converter
- External modem for telemedicine applications



## MIR

Via del Maggiolino, 125  
00155 Roma - Italy  
tel. +39 06.22754777  
fax +39 06.22754785  
www.spirometry.com  
mir@spirometry.com



# spirootel<sup>®</sup>

Telespirometry + Oximetry in a single pocket device

New

## Asthma and COPD patient Telemonitoring via WEB

Spot and overnight SpO<sub>2</sub> and HR measurements

Sleep apnea desaturation recording

Also ideal for screening in the doctor's office

## Patient tests easily transmitted via telephone

Without modem, without wires, without problems

Doctor secure access to the patient results via Internet

Easy data analysis with comprehensive graphic presentations

World's First  
Telemedicine  
"mini-lab"  
for Home Care



Quality Spirometry

CE

0476

FDA

Approved

ATS

Standard

ISO

9001-2000

ISO

13485



# spirotel®

Telespirometry + Oximetry in a single pocket device

3 data receiving systems available

- via Internet
- via PC-modem
- via RS232 cable

#### spirotel records:

- Spirometry: FVC, FEV1, FEV1%, PEF, FEF 25-75, FET, Flow/Volume loop and Volume/time curve
- Oximetry: %SpO2 and Heart Rate for spot and overnight recording (every 4 sec)
- Respiratory symptoms based on programmable questions

#### spirotel offers:

- COPD monitoring, sleep apnea screening, desaturation analysis
- Up to 24 hours SpO2 and HR recording
- Digital turbine for accurate measurements without calibration
- Large memory capacity for spirometry and oximetry tests
- Internal software upgradeable via WEB

#### User friendly

- Switch ON/OFF, spirometry, oximetry and data transmission keys
- Spirometry test quality control
- Automatic test interpretation by traffic light
- Programmable warnings for SpO2 and Heart Rate levels
- Ideal for adult and pediatric monitoring

#### Easy wireless data transmission

- **spirotel** is a pocket-sized device designed for patient use
- The test results are transmitted simply by making a call, placing the phone handset near to **spirotel** and pressing the key with the phone icon



## Telemedicine



**PATIENT**

#### spirotel

towards the "virtual clinic" with major benefits both for patient and for health system

- Automatic data receiving by dedicated WEB server
- Test records accessible by the doctor via Internet
- Easy yet advanced PC software, for comprehensive data analysis
- Patient risk highlight by traffic light "flag" (green, yellow, red)
- Email or SMS message to the doctor to advise of data reception

The easiest and most effective way to monitor and to prevent any exacerbation of the patient

# made simple

## GP DOCTOR



## WEB SERVER



## SPECIALIST

Perfect for clinical trials  
teleconsulting and e-Health Care  
Usable in remote locations and  
in extreme conditions



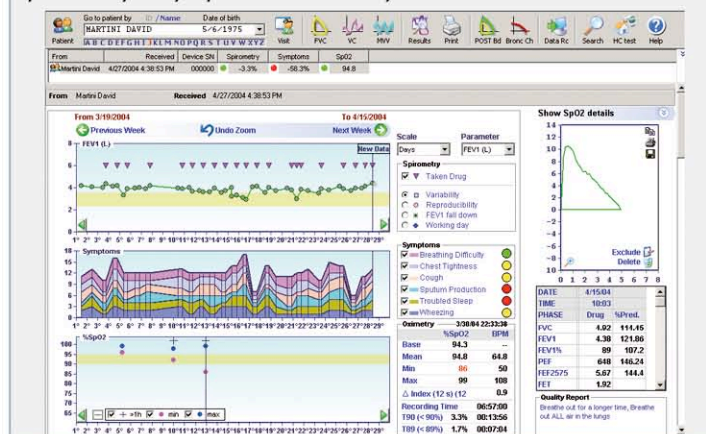
Option:  
the test results can  
be transmitted directly  
to the doctor's mobile phone via MMS

's pathology

### WinspiroPRO PC Software

- Spirometry parameters, curves and symptoms trends for an ideal evaluation of patient's follow-up
- Sleep apnea detection and "walking test" recording with %SpO2 and Heart Rate profile
- Statistic analysis to assess desaturation events
- Data and graphs export also by email
- Can be integrated into other management systems

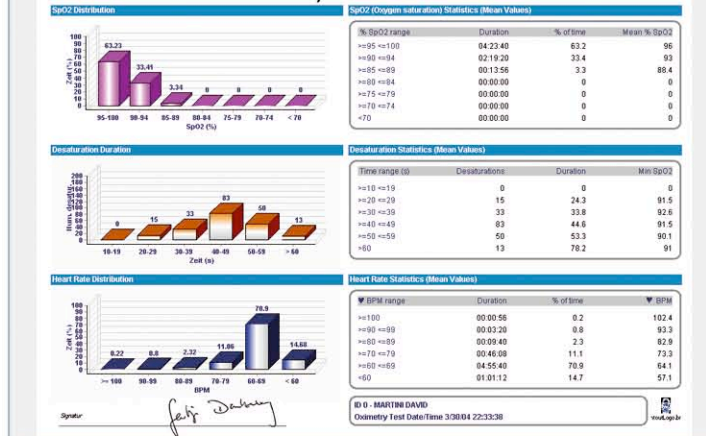
### Spirometry + symptoms + oximetry trend



### Sleep apnea recording

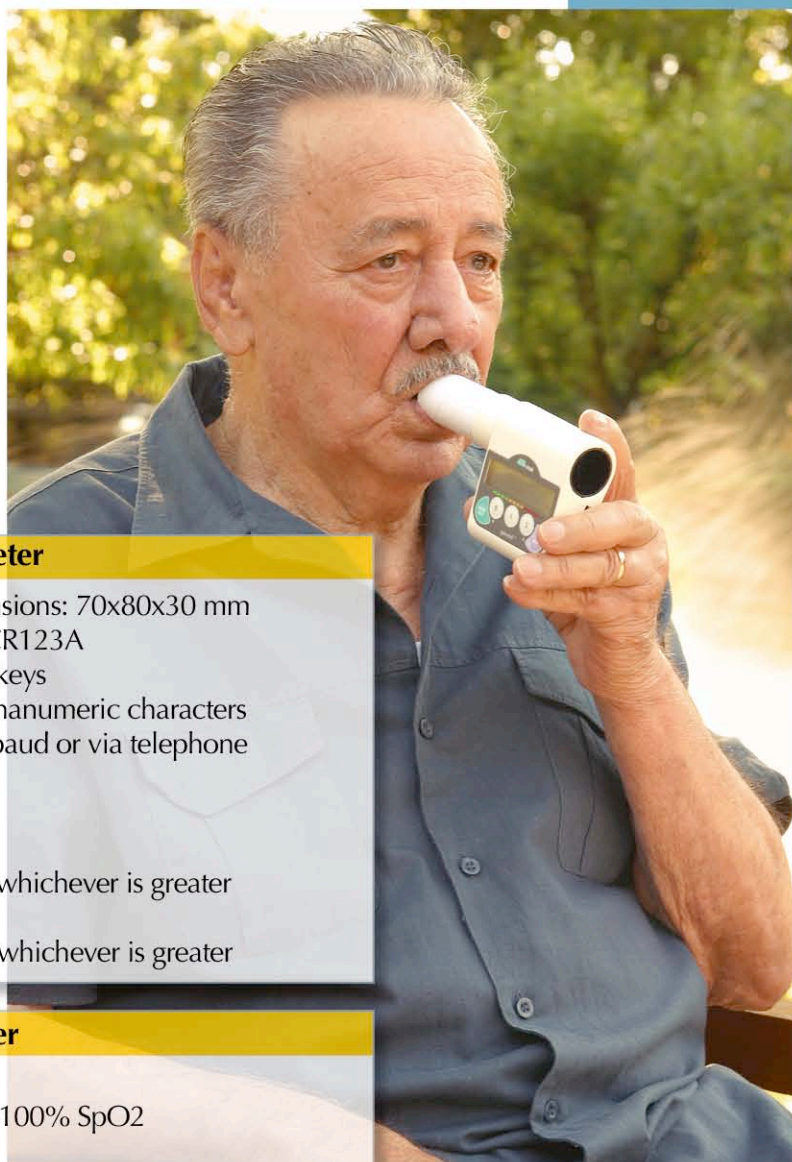


### Desaturation statistical analysis



# spirotel<sup>®</sup>

Telespirometry + Oximetry in a single pocket device



## Technical Specifications spirometer

Weight: 100 g with battery - Dimensions: 70x80x30 mm  
Power supply: 3V Lithium battery CR123A  
Keyboard: Membrane keyboard, 5 keys  
Display: STN LCD, 2 lines x 16 alphanumeric characters  
Data transmission: RS232 at 9600 baud or via telephone  
Flow sensor: Digital Turbine  
Test duration: Maximum 60 s  
Flow range:  $\pm 16$  L/s  
Flow accuracy:  $\pm 5\%$  or 200 mL/s, whichever is greater  
Max volume: 10 L  
Volume accuracy:  $\pm 3\%$  or 50 mL, whichever is greater

## Technical Specifications oximeter

SpO<sub>2</sub> range: 0-99%  
SpO<sub>2</sub> accuracy :  $\pm 2\%$  between 70-100% SpO<sub>2</sub>  
HR range: 30-254 BPM  
HR accuracy:  $\pm 2$  BPM or 2%, whichever is greater

www.spirometry.com

**MIR**  
Via del Maggiolino, 125  
00155 Roma - Italy  
tel. +39 06.22754777  
fax +39 06.22754785

www.spirometry.com  
mir@spirometry.com

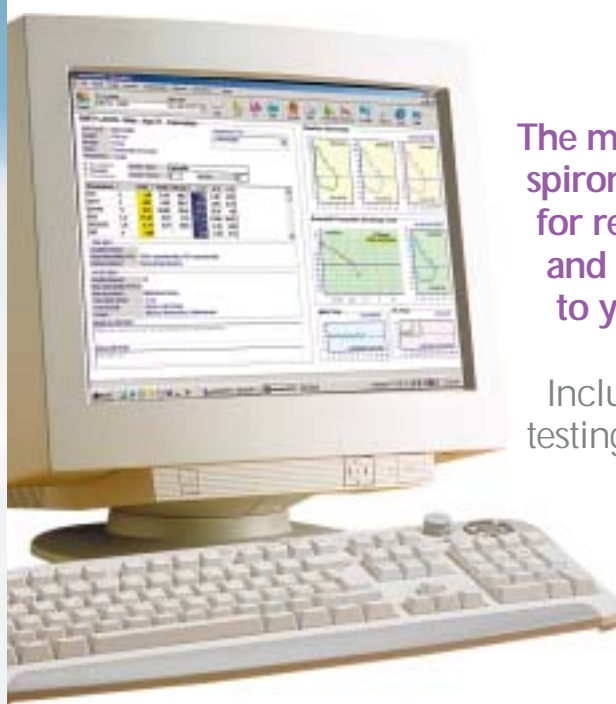
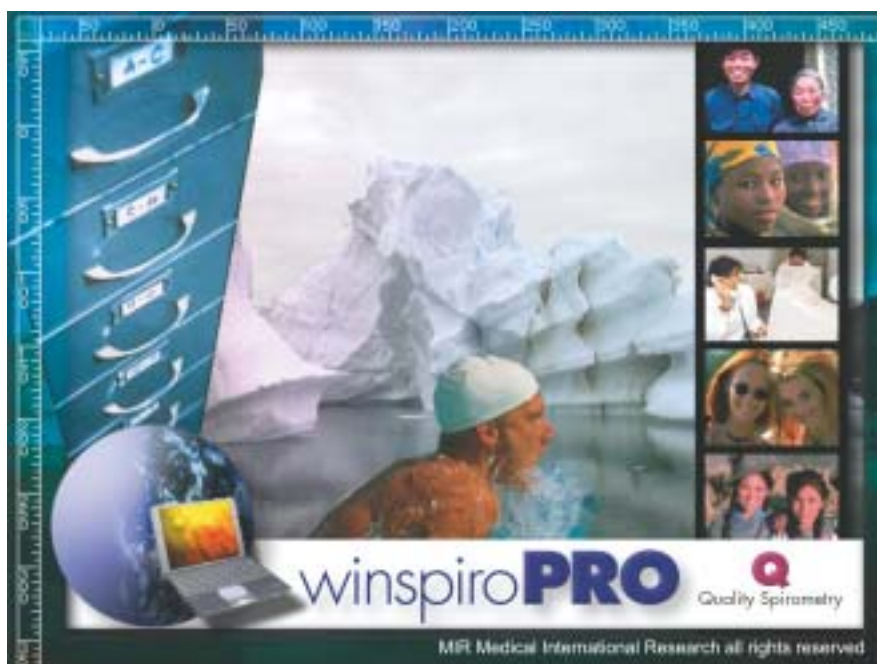
MIR reserves the right to modify the technical characteristics at any time



# winspiroPRO

The software for  
maximum spirometry performance

100%  
innovation



The most complete  
spirometry software  
for real time testing on  
and downloading  
to your PC

Includes FVC, VC and MVV  
testing plus a whole lot more



Quality Spirometry

FDA  
registered

ATS  
standard

ISO  
9001

EN  
46001

CE  
0476

## 10 reasons to go Winspiro PRO

- New web browser and XP based user interface
- Simple, single-screen patient spirometry summary with dynamic management of all data and curves
- New and intuitive hyperlinked spirometry curves
- Bronchial challenge and bronchial dilator protocols, with "one click" operation
- Direct email of spirometry data and curves
- Network ready software with powerful SQL database, for large-scale data collection
- Suitable for clinical trials and telemedicine applications.
- Direct hyperlink to MIR web site for easy access to software updates, service etc
- Includes internal software upgrade for your MIR spirometer
- The most complete spirometry software package available today



### MIR

Via del Maggiolino, 125  
00155 Roma - Italy  
tel. +39 06.22754777  
fax +39 06.22754785  
www.spirometry.com  
mir@spirometry.com



**SPIROMETRY  
OXIMETRY  
TELEMEDICINE**

## Latest products

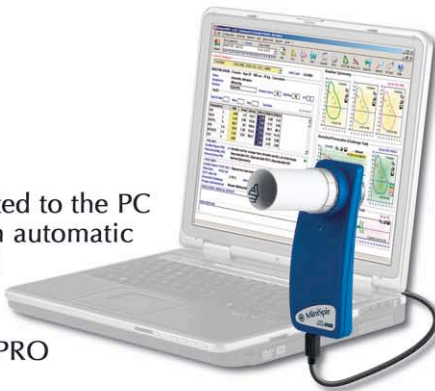


**The world's  
first disposable  
turbine**



### **Minispir**

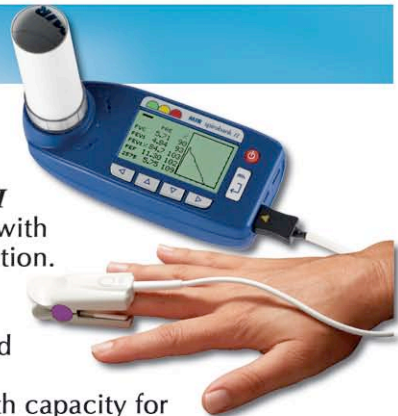
Spirometer connected to the PC via USB cable, with automatic BTPS conversion of the measured parameters. Includes Winspiro PRO PC software.



### **Spirobank II**

Spirometer with oximetry option. Patient data is inserted by name and surname.

Memory with capacity for 6000 spirometry tests or 1000 hours (40 days) of oximetry recording. Sleep apnea detection with desaturation events recording. Walking test with timer and alarm for the rest, walking and recovery phases. Connectivity: USB, Bluetooth, RS232 plus acoustic modem. Includes Winspiro PRO PC software.



# Portable devices



## Spirolab, Spirolab II

Diagnostic spirometer with colour or monochrome display, easy touch keys with intuitive icons, complete alphanumeric keyboard, rechargeable battery and thermal printer.

Memory capacity:

- Spirolab II 1.500 spirometry tests
- Spirolab 750 spirometry tests

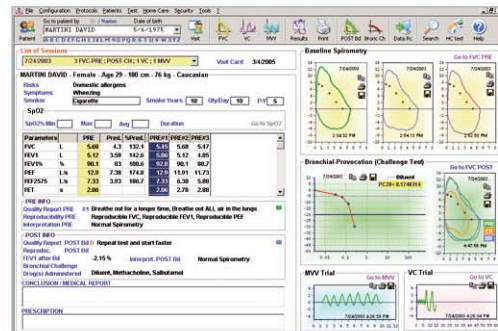
Over 30 parameters with automatic interpretation FVC, VC, MVV and breathing pattern.

Includes Winspiro PRO PC software.

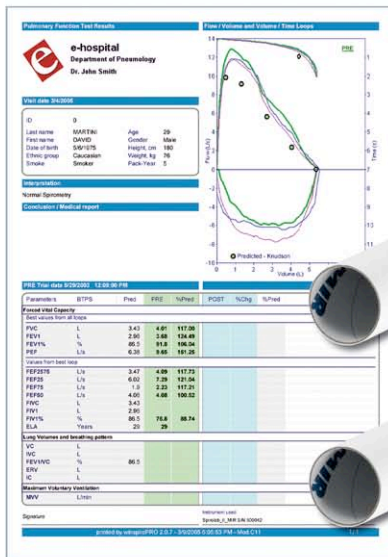


## WinspiroPRO

A simple and intuitive software which transforms MIR instruments into on-line devices with advanced spirometry and oximetry functions.



# Pocket devices



**Spirobank, Spirobank G**  
Multifunction spirometers with graphic or alphanumeric display.  
Includes Winspiro PRO PC software.



**Spirodoc**  
Spirometer with oximetry option,  
ideal for screening.

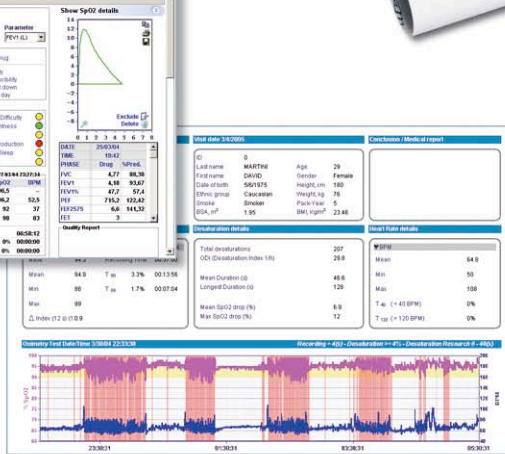
## Telespirometry and Teleoximetry



*Trend analysis:*

- *spirometry*
- *symptoms*
- *oximetry*

### Sleep oximetry



## Spirotel

## Telespirometry and teleoximetry in a single device.

When used at home the results can be transmitted acoustically to a central computer (Web Server) using a standard telephone line or via Bluetooth without modem, without wires, without problems. The test data can then be accessed by the doctor via internet.



MIR

Via del Maggiolino, 125  
00155 Roma - Italy  
tel +39 06.22754777  
fax +39 06.22754785  
[www.spirometry.com](http://www.spirometry.com)  
[mir@spirometry.com](mailto:mir@spirometry.com)