

New
option
disposable turbine

spirobank

Multifunction spirometer
with alphanumeric display



spirobank G

Multifunction spirometer
with graphic display

Stand-alone and
on-line PC
operation

Direct parallel
printer connection

Automatic test
interpretation

Reusable or
disposable
flowmeter
available

No calibration
required



Quality spirometry

CE

0476

FDA

Approved

ATS

Certified

ISO

9001-2000

ISO

13485

spirobank

Multifunction spirometer
with alphanumeric display



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

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
- **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



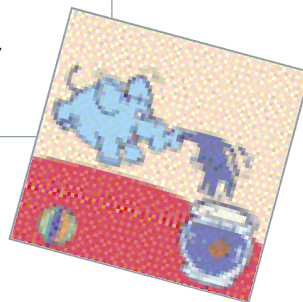
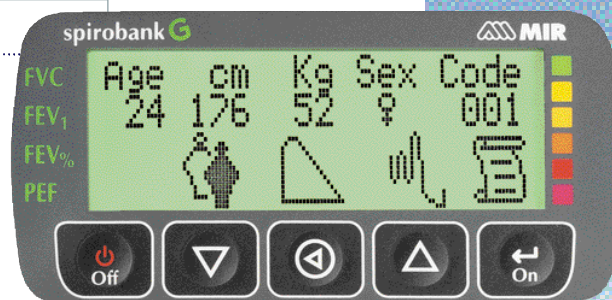


spirobankG

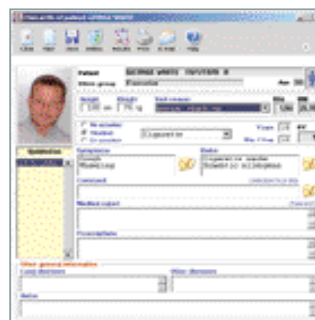
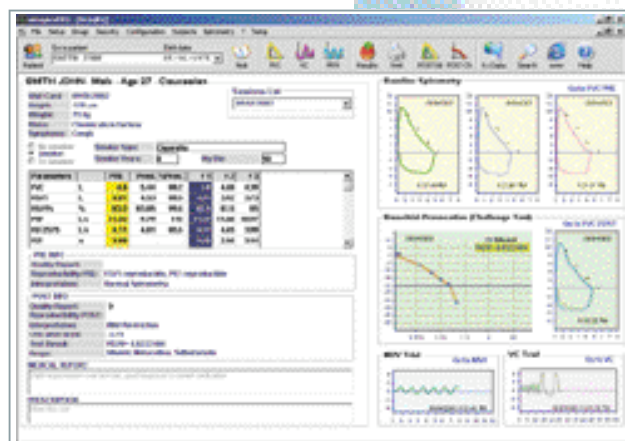
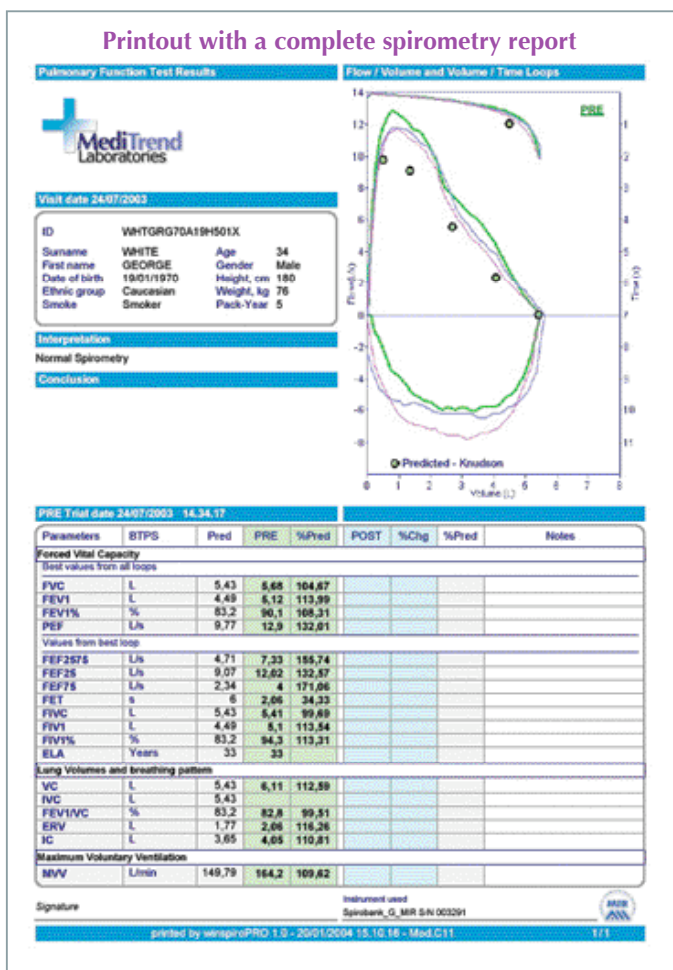
Multifunction spirometer
with graphic display

On-Line PC connection

- **WinspiroPRO software** turns spirobank and spirobankG 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: spirobank and spirobankG 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: ± 16 L/s

Volume accuracy: ± 3% or 50 mL, whichever is greater

Flow accuracy: ± 5% or 200 mL/s, whichever is greater

Dynamic resistance at 12L/s: <0.5 cmH₂O/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 ø 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

