MEDICAL INTERNATIONAL RESEARCH

MIR

- Stand-alone and on-line PC operation
- Direct parallel printer connection
- Automatic test interpretation
- Reusable or disposable flowmeter available
- No calibration required

New option disposable turbine

spirobank
Multifunction spirometer with alphanumeric display

spirobank G
Multifunction spirometer with graphic display

MIR
spirobank
Age 23 cm 186 Kg 70 Sex ♀ Code 003

spirobank G
FVC   6.04 127%
FEV₁ 4.97 119%
FEV% 82.3   97%
PEF 11.66 138%
MIR

Q Quality spirometry

CE	FDA	ATS	ISO	ISO
0476	Approved	Certified	9001-2000	13485

spirobank
Multifunction spirometer
with alphanumeric display

NEW

DISPO... REUS...

Choose between two different flowmeters

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

spirobank G

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**
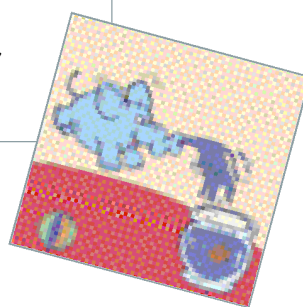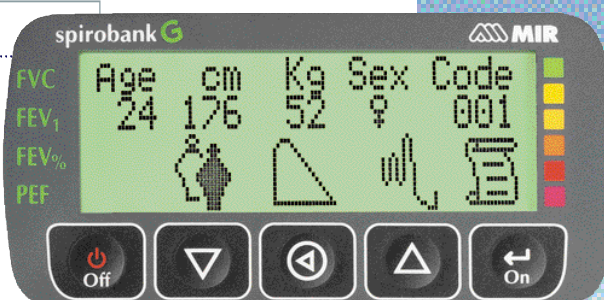
Printout with a complete spirometry report
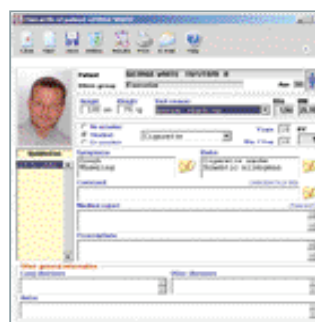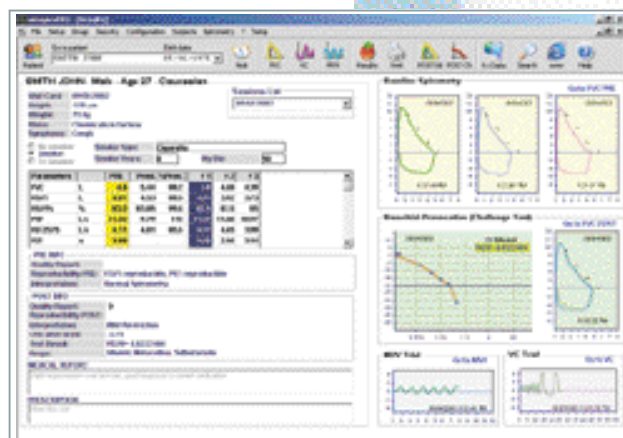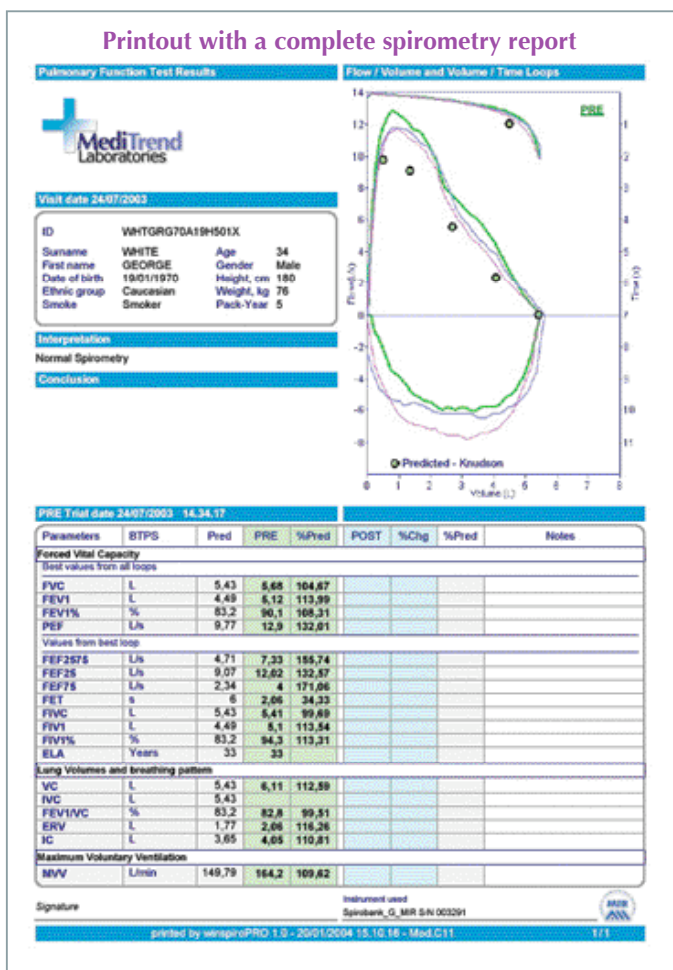
Note: spirobank and spirobankG have the same set of options, the only variation is the display

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 cmH$_2$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 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