SPIROBANK II SMART - PORTABLE SPIROMETER WITH SPO$_2$ OPTION

• 33512 SPIROBANK II SMART + WINSPIROPRO SOFTWARE
Spirometer with 10.000 tests memory capacity, monochromatic LCD display, 6 keys membrane keypad. Battery power supply (3,7 V-1100 mA lithium) with an autonomy of approx. 50 hours of continuous use, rechargeable with USB port.
- cable (USB 2.0) or wireless (Bluetooth 4.0) connection
- internal temperature sensor for automatic BTPS conversion
- high resolution graphic display
- automatic record of a whole spirometry session including best test
- USB cable, carrying case, CD manual (GB, FR, IT, ES, DE, PT) re-usable turbine and software included. Selectable internal software (GB, FR, IT, ES, DE, PT)

• 33514 SPIROBANK II SMART + WINSPIROPRO SOFTWARE + OXYMETER
Same as above with more than 300 hours of oximetric test records (SpO$_2$ % and pulse frequency tests).
Measured parameters: min, max and average SpO$_2$ %, min, max and average pulse frequency, SpO$_2$ total events, test duration, bradycardia events (<40 BPM), tachycardia events (>120 BPM), T90% (time passed with SpO$_2$ ≤89%), T89% (time passed with SpO$_2$ ≤ 88%)
• 33525 ANTIBACTERIAL FILTER - box of 50 disposable
• 33507 DISPOSABLE TURBINE with mouthpiece - box of 60
• 33526 REUSABLE TURBINE
• 33410 MOUTHPIECES int. Ø 2.8 x ext. Ø 3, h 6.5 cm

WinspiroPRO software functions:
(GB, FR, IT, DE, ES, PT, PL, SE, NL, LV, CZ, TR, RU, CN, JP)
- on-line PC connection with icon interface
- real time Flow/Volume and Volume/time curves
- bronchial challenge with FEV1 dose-response
- paediatric incentive animations
- integration with EPR systems
- Lung Age Estimation
- data and graphs export also via e-mail

PC system requirements: XP, Seven, Vista, 8, 10

Weight 140 g
Size 55x160x25 mm
160x80 pixel display

33514

Made in Italy

PC connection via USB or Bluetooth®

FDA **510 (K)**
CE **0476**
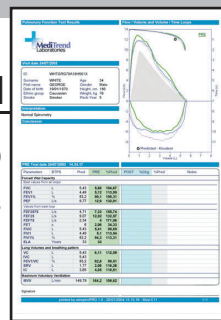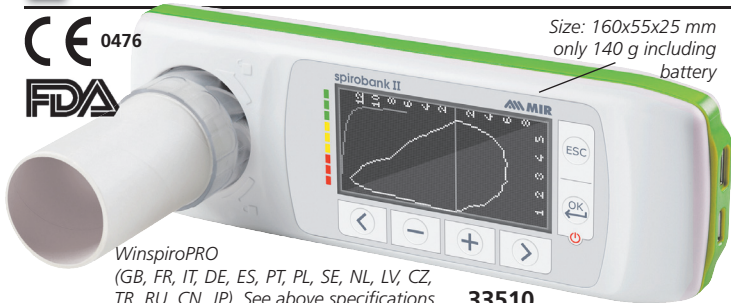*Health Canada*

TECHNICAL SPECIFICATIONS - SPIROMETRY	
Measured parameters FVC, FEV1, FEV1/FVC%, DTPEF, FEV 0.5, FEV0.5/FVC%, FEV0.75/ FVC%, FEV2, FEV2/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FEF75-85%, FET, Vext, Lung Age, EVOL, FIVC, FIV1, PIF, FIV1/FIVC%, FIF25%, FIF50%, FIF75%, R50, PIF, IRV, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV	Flow sensor bi-directional digital turbine Flow range ±16L/s Volume accuracy ±3% or 50 mL Flow accuracy ±5% or 200 mL/s Dynamic resistance <0.5 cm H$_2$O/L/s Available tests: FVC, VC, IVC, MVV, PRE - POST Connectivity USB 2.0, Bluetooth® 4.0 Power supply Lithium-Ion 3.7V, 1100 mAh

TECHNICAL SPECIFICATIONS - OXIMETRY (33514 only)	
Measurement method: red and infrared absorption SpO$_2$ range: 0-99% ±2 % between 70-99% SpO$_2$ Pulse rate range: 18-300 BPM ±2 BPM or 2%	Signal quality indicator: 0-8 segments on display Memory capacity: up to 300 hours oximetry

---

SPIROBANK II BASIC

CE **0476**
FDA

Size: 160x55x25 mm only 140 g including battery

33510

WinspiroPRO (GB, FR, IT, DE, ES, PT, PL, SE, NL, LV, CZ, TR, RU, CN, JP). See above specifications

System requirements: Microsoft Windows Vista, 2000, XP, ME, Seven, 8, 10

• 33510 SPIROBANK II BASIC + WINSPIROPRO software
Complete and rapid pocket spirometer for the General Practitioner to carry out spirometry testing anywhere.
No calibration required, use disposable turbine FlowMIR with integrated mouthpiece (33507) or reusable turbine (33526).
- measures the most important spirometric parameters including: **FVC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75, FET, EVOL, TEST POST BD**
- **traffic lights** for immediate test interpretation
- memory up to **10,000 tests**
- rechargeable **long life battery** (40 hours continuous operation)
- real time tests via **USB**
- selectable display language and CD manual (GB, IT, ES, FR, DE, PT)
Supplied with Winspiro PRO software, USB cable, 1 disposable turbine in a carriying bag.
• 33507 FLOWMIR DISPOSABLE TURBINE with integrated mouthpiece - box of 60 - spare
• 33526 REUSABLE TURBINE - optional

TECHNICAL SPECIFICATION	
Power supply: 3.7 V, 110 mA lithium battery , USB rechargeable	
Keypad: 6-key membrane keyboard	Display: LCD monochrome 160x80 pixel
Flow range: + 16 l/s	Flow accuracy: ± 5% or 200 ml/s whichever is greater
Max volume: 10 l	Volume accuracy: ± 3% or 50 ml whichever is greater
Data transmission: USB 2.0	Made in Italy

SPIROBANK G WITH SOFTWARE

CE **0476**

Graphic display (128x48 pixels) with user friendly icons

33518

• 33518 SPIROBANK G + WINSPIROPRO software
- stand alone spirometer with PC online operation
- 6,000 spirometry in memory
- high legibility graphic display
- FVC, VC, IVC, MVV, PRE-POST BD
- advanced spirometry test interpretation
- Lung Age Estimation (ELA)
- ready for **Telemedicine** applications
- internal temperature sensor for automatic BTPS
- upgradable internal software via internet
Standard package includes USB cable, pouch, noseclip, battery, re-usable turbine and Winspiro PRO software.

Supplied with CD manual (GB, FR, IT, ES, DE, PT) Internal software (GB, FR, IT, ES, DE, PT, PL)

TECHNICAL SPECIFICATION	
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	
Temperature sensor: semiconductor (0-45 °C)	
Flow sensor: bi-directional digital turbine	
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 12 l/s: <0.5 cm H$_2$O/l/s	
Power supply: 9V DC (PP3 battery)	
Weight: 180 g (with battery)	Dimensions: 162x49x32 mm
Made in Italy	
WinspiroPRO PC system requirements	
(GB, FR, IT, DE, ES, PT,PL, SE, NL, LV, CZ, TR, RU, CN, JP)	
- Microsoft Windows: Vista, 2000, XP, Me, Seven, 8	
- Screen resolution: 1024x768	- Hard disk space: 160 MB