



New Spirobank II®

Functional design
and user-friendly technology
The new standard
for portable spirometry



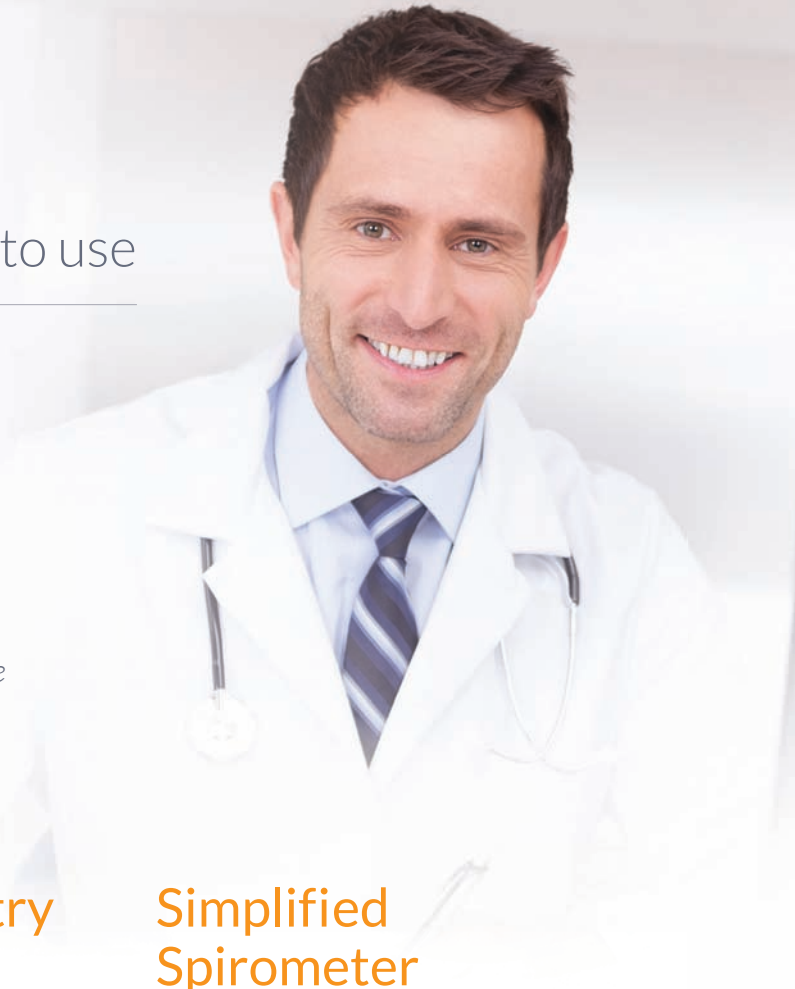
New Spirobank II®

Accurate, powerful, easy to use

Fast and intuitive to operate
with an **icon-based navigation menu**

Backlit, **high-resolution display**.
On screen results and curves preview
for immediate data analysis

FlowMir®: Disposable turbine flow sensor
(Spirobank II® is available also with reusable
turbine flow sensor)



Spirometer with Oximetry option for iPad

Simplified Spirometer

S SMART



B BASIC




- **Spirometry Parameters:** FVC, FEV1, FEV1/FVC%, PEF, FEF25-75.
- **Oximetry Parameters:** %SpO2 and Pulse Rate (Min, Max, Average).
- Available with both **DISPOSABLE** or **REUSABLE** turbine flowmeter.
- **Pediatric Incentive Animations**
- iOS based **iSpirometry®** and **iOximetry®** App for Real Time Spirometry and Oximetry test on your iPad/iPad Mini with free online updates.
- **Spirobank II® Smart** can be also connected to the PC via USB using **WinspiroPRO PC Software®**.

- Ideal for **family doctors**, primary care, occupational medicine, screening.
- **FVC, VC, IVC, IC ERV, PRE and POST** with main parameters enabled (FEV1, FEV1%, PEF, FEF 25-75, FET, EVOL)
- **Estimated Lung Age (ELA)** test to assess the benefits from smoking cessation
- **Traffic lights** for immediate test interpretation
- Rechargeable, **long-life battery** (~ 40 hours continuous operation)
- Real-time tests via **USB**
- Memory up to **10,000 tests**

Spirometer with Oximetry option

A ADVANCED



- Portable minilab for **pulmonologists and respiratory therapists**
- Preconfigured for use with optional **oximetry module**
- Real-time tests with wireless Bluetooth®  connection or USB. **Connection to Bluetooth® Low Energy technology also available**
- Spirometry test with **over 45 selectable parameters** including PRE and POST test.

Spirometer and Oximeter

A+ ADVANCED PLUS



It comes additionally with:

- **SpO2 and pulse rate** directly on the display of the device (including **plethysmographic curve**)
- Medical-standard **battery charger** with interchangeable international plugs



MIR Turbine Flowmeters (comply with ATS/ERS standards)

Spirometry testing requires maximum accuracy and hygiene.

FlowMir® is the answer to both requirements.

Each turbine is factory calibrated with a computerized system and it is packaged individually in a clean room.

100% hygiene guaranteed!

Option available: reusable turbine.

Summary of all tests carried out

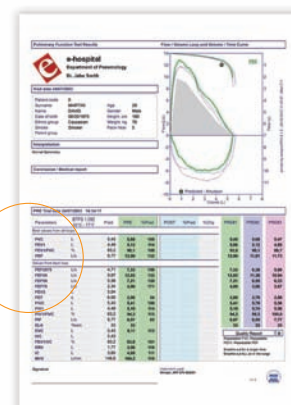


New WinspiroPRO®

High performance PC software for spirometry and oximetry (always included with free software upgrades).

Network Version available.

Printout: Spirometry report



Technical specifications

SMART



BASIC



ADVANCED



ADVANCED PLUS



Display	160x80 pixel	160x80 pixel	160x80 pixel	160x80 pixel
Power supply	3.7 V, 110 mA lithium battery USB rechargeable	3.7 V, 110 mA lithium battery USB rechargeable	3.7 V, 110 mA lithium battery USB rechargeable	3.7 V, 110 mA lithium battery USB rechargeable
Keypad	6-key membrane keyboard	6-key membrane keyboard	6-key membrane keyboard	6-key membrane keyboard
Data transmission	USB and Bluetooth® Smart	USB	USB and Bluetooth® 2.1	USB and Bluetooth® 2.1
Dimensions device	160x55x25 mm	160x55x25 mm	160x55x25 mm	160x55x25 mm
Device weight (with battery)	145 g	140 g	145 g	145 g
Flow measurement	± 16 L/s	± 16 L/s	± 16 L/s	± 16 L/s
Volume accuracy	± 3% or 50 mL	± 3% or 50 mL	± 3% or 50 mL	± 3% or 50 mL
Flow accuracy	± 5% or 200 mL/s	± 5% or 200 mL/s	± 5% or 200 mL/s	± 5% or 200 mL/s
Temperature sensor	semiconductor (0-45°C), automatic BTPS conversion	semiconductor (0-45°C), automatic BTPS conversion	semiconductor (0-45°C), automatic BTPS conversion	semiconductor (0-45°C), automatic BTPS conversion
SpO2 measurement	Optional 0-99%	Not available	Optional 0-99%	0-99%
SpO2 accuracy	Optional ± 2% between 70-99 %SpO2	Not available	Optional ± 2% between 70-99 %SpO2	± 2% between 70-99 %SpO2
Pulse rate measurement	Optional 18-300 BPM	Not available	Optional 18-300 BPM	18-300 BPM
Pulse rate accuracy	Optional ± 2 BPM or 2% whichever is greater	Not available	Optional ± 2 BPM or 2% whichever is greater	± 2 BPM or 2% whichever is greater
Configurable alarms ON-OFF	Optional SpO2 and pulse rate Min-Max, finger/sensor inserted, battery out of energy	Not available	Optional SpO2 and pulse rate Min-Max, finger/sensor inserted, battery out of energy	SpO2 and pulse rate Min-Max, finger/sensor inserted, battery out of energy
Main spirometry parameters	Using iPad software FVC, FEV1, FEV1/FVC%, PEF, FEF25-75	FVC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75, FET, EVOL	FVC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75, FET, EVOL	FVC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75, FET, EVOL
Additional spirometry parameters	Using PC Software via USB FVC, FEV1, FEV1/FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25-75, FEF75-85, Lung Age, Extrap. Volume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV6, FEV1/FEV6, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, ti, tE, VT/ti, tE/tTOT, MVV (measured), MVV (calculated)	Not available	FEV1/FVC%, DTPEF, FEV 0.5, FEV0.5/FVC%, FEV0.75, FEV0.75/FVC%, FEV2, FEV2/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, FEF25%, FEF50%, FEF75%, FEF 75-85, FIVC, FIV1, FIV1/FIVC%, FIF25%, FIF50%, FIF75%, R50, PIF, IRV, VT, VE], Rf, ti, te, ti/t-tot, VT/ti, MVV measured, MVV calculated	FEV1/FVC%, DTPEF, FEV 0.5, FEV0.5/FVC%, FEV0.75, FEV0.75/FVC%, FEV2, FEV2/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, FEF25%, FEF50%, FEF75%, FEF 75-85, FIVC, FIV1, FIV1/FIVC%, FIF25%, FIF50%, FIF75%, R50, PIF, IRV, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV measured, MVV calculated
Oximetry tests	Optional %SpO2 and Pulse Rate (Min, Max, Average)	Not available	Optional: SpO2. Min/Max/Avg, pulse rate, test duration, T90% [SpO2 time ≤89%], T89% [SpO2 time ≤88%], total SpO2 events, T40 (bradycardia duration with pulse rate <40 BPM), T120 (Tachycardia duration with pulse rate >120 BPM)	SpO2. Min/Max/Avg, pulse rate, test duration, T90% [SpO2 time ≤89%], T89% [SpO2 time ≤88%], total SpO2 events, T40 (bradycardia duration with pulse rate <40 BPM), T120 (Tachycardia duration with pulse rate >120 BPM)

	Smart	Basic	Advanced	Advanced Plus		Smart	Basic	Advanced	Advanced Plus
iPad software	✓	—	—	—	POST Bronchodilator test	✓	✓	✓	✓
PC software	✓	✓	✓	✓	Bluetooth Smart	✓	—	—	—
High-resolution display	✓	✓	✓	✓	Bluetooth 2.1	—	—	✓	✓
Traffic light indicator	✓	✓	✓	✓	Oximeter	○	—	○	✓
Main parameters	✓	✓	✓	✓	Battery charger	○	—	○	✓
Additional parameters	✓*	—	✓	✓					

standard
 unavailable
 optional
 *Available only using PC software



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