New Spirobank II®

MIR
MEDICAL INTERNATIONAL RESEARCH

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

www.spirometry.com
www.oximetry.com

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 resusable turbine flow sensor)*

Spirometer

B BASIC

- *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 continous 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.

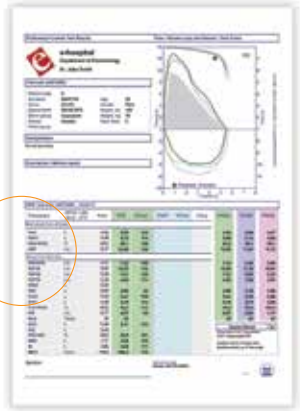
Summary of all tests carried out

New WinspiroPRO®

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

Network Version available.

Printout: Spirometry report



Spirobank II®

Technical specifications

	✔ BASIC nº 911020_BASE	✔ ADVANCED nº 911020	✔ ADVANCED PLUS nº 911025
			
Display	Backlit LCD	Backlit LCD	Backlit LCD
Resolution	160x80 pixel	160x80 pixel	160x80 pixel
Power supply	3.7 V, 110 mA lithium battery USB rechargerable	3.7 V, 110 mA lithium battery USB rechargerable	3.7 V, 110 mA lithium battery USB rechargerable
Keypad	6-key membrane keyboard	6-key membrane keyboard	6-key membrane keyboard
Data transmission	USB	USB and Bluetooth®	USB and Bluetooth®
Flash memory non volatile	up to 10,000 spirometry tests	up to 10.000 spirometry tests or 900 hours of oximetry recording (in case of oximetry option)	up to 10.000 spirometry tests or 900 hours of oximetry recording
Dimensions device	160x55x25 mm	160x55x25 mm	160x55x25 mm
Device weight (with battery)	140 g	140 g	140 g
Flow measurement	± 16 L/s	± 16 L/s	± 16 L/s
Volume accuracy	± 3% o 50 mL	± 3% o 50 mL	± 3% o 50 mL
Flow accuracy	± 5% o 200 mL/s	± 5% o 200 mL/s	± 5% o 200 mL/s
Dynamic resistance at 12 L/s	<0.5 cmH2O/L/s	<0.5 cmH2O/L/s	<0.5 cmH2O/L/s
Temperature sensor	semiconductor (0-45°C), automtic BTPS conversion	semiconductor (0-45°C), automtic BTPS conversion	semiconductor (0-45°C), automtic BTPS conversion
SpO2 measurement	-	Optional 0-99%	0-99%
SpO2 accuracy	-	Optional ± 2% between 70-99 %SpO2	± 2% between 70-99 %SpO2
Pulse rate measurement	-	Optional 18-300 BPM	18-300 BPM
Pulse rate accuracy	-	Optional ± 2 BPM o 2% whicheveris greater	± 2 BPM o 2% whicheveris greater
Configurable alarms ON-OFF	-	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 parametrers	VC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75%, FET, EVOL	VC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75%, FET, EVOL	VC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75%, FET, EVOL
Additional spirometry parameters	-	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 calcuated
Oximetry tests	-	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)
Spirometry tests	FVC, VC, IVC, IC, pre and post	FVC, VC, IVC, IC, MVV, pre and post	FVC, VC, IVC, IC, MVV, pre and post

	Basic	Advanced	Advanced Plus		Basic	Advanced	Advanced Plus
WinspiroPRO	✔	✔	✔	Pre Test	✔	✔	✔
High-resolution display	✔	✔	✔	Post Test	✔	✔	✔
Traffic Lights	✔	✔	✔	Bluetooth	—	✔	✔
Main parameters always enabled	✔	✔	✔	Oximeter	—	O	✔
Additional spirometry parameters	—	✔	✔	Battery charger	O	O	✔

✔ *standard* — *unvailable* O *optional*

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