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MEDICAL INTERNATIONAL RESEARCH

Spirobank II® Advanced

Advanced handheld diagnostic Spirometer with interpretation.
Measures 45+ parameters with Oximetry optional. PC connectivity via USB and Bluetooth®.

The Spirobank II® Advanced is a handheld, portable diagnostic spirometer that offers a comprehensive range of spirometric parameters for more in-depth spirometry testing.

Its pocket size design with rechargeable long-life battery makes it ideal for use in situations where remote testing is required. The user interface is fast and intuitive to operate with an icon-based navigation menu on a backlit, high resolution display. It can be used as a "stand-alone" with onboard memory that is capable of storing up to 10,000 test results. It can also connect wirelessly to a PC (or directly via USB) allowing for real-time spirometry testing, and downloading of test results stored on the device using the free MIR WinspiroPRO® PC Software.

The Spirobank II® Advanced measures over 45 selectable parameters and gives a PRE and POST bronchodilator comparison. Results are previewed on the display following a test, with a flow/volume graph in addition to the patient's actual spirometry readings for immediate assessment. It also features a traffic light health indicator for easy interpretation of results.

KEY FEATURES

- **Easy to use handheld spirometer**
  Navigate easily through the icon-based menus on a clear, high resolution screen
- **Over 45 selectable parameters**
  Advanced handheld diagnostic spirometry ideal for use in any clinical setting
- **Traffic light health indicator**
  A visual way to easily interpret test results
- **Large memory storage**
  Store up to 10,000 tests
- **Bluetooth® and USB connectivity to PC**
  Download results stored on the device and conduct real-time spirometry using WinspiroPRO® PC software.
- **Optional Pulse Oximetry**

Re-usable and disposable consumable options

The Spirobank II® Advanced can be used with both re-usable and single-use disposable turbines. Re-usable turbines are used with standard adult one-way valve mouthpieces. The single-use disposable turbines have a pre-connected mouthpiece and are individually factory calibrated and packaged.

Re-usable turbine

Disposable turbine

MIR Spirobank II® Advanced

TECHNICAL SPECIFICATIONS	
Device category	Diagnostic spirometer
Spirometry parameters	FVC, FEV1, 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)
Flow measurement	± 16 L/s
Volume accuracy	± 3% or 50 mL
Flow accuracy	± 5% or 200 mL/s
Temperature sensor	Semiconductor (0-45℃), automatic BTPS conversion
Data transmission	USB and Bluetooth® 2.1
Memory storage	Approx. 10,000 tests
Power	3.7 V, 110 mA lithium battery - USB rechargeable
Display	160 x 80 pixel with 6-key membrane keyboard
Dimensions	160x55x25 mm
Weight	145 g (with battery)

Pulse Oximetry Specifications (*Upgrade to be purchased separately*)

SpO2 range/accuracy	0-99%SpO2 / ±2% between 70-99%SpO2
Pulse range/accuracy	18-300BPM / ±2BPM or 2% (Whichever is greater)
Oximetry alarms	SpO2 and pulse rate Min-Max, finger/sensor inserted, battery out of energy
Oximetry tests	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)

Ordering Information

PART NUMBER	DESCRIPTION
MR-911020E1	MIR Spirobank II® Advanced with re-usable turbine
MR-911020E2	MIR Spirobank II® Advanced with 100 x disposable turbine
MR-910002	Replacement re-usable turbine
MR-910004	Disposable turbines (Box of 50)
881002	One-way valve adult mouthpieces for re-usable turbine (Box of 200)

For Pulse Oximetry upgrade, please contact the provider

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