

LIGHT

SPIROBANK II BASICTM

Handheld, Stand-alone and
PC-based Spirometer

Easy-to-use, ideal for family doctors,
occupational medicine, screening



MAIN features



REAL-TIME TEST

Spirometry: FVC, VC, IVC, MVV, PRE/POST
Bronchodilator comparison



SPIROMETRY PARAMETERS

FVC, FEV1, FEV1%, PEF, FEF25-75, FET, Extrap. Volume, Estimated Lung Age, VC, IVC, IC, ERV



COMPLIANCE ATS/ERS 2019

And other Standards including ISO 26782 (for Spirometry), ISO 23747 (for PEF), and more. CE0476, FDA 510 (k)



CARRY EVERYWHERE

Internal Storage up to 10.000 Spirometry tests

Long lasting Lithium battery, rechargeable via USB

High resolution backlight display

Carrying case included



PC CONNECTION AVAILABLE

Real-time test on PC screen, connect with your EHR/EMR, back-up internal memory and more, via USB



DISTINCTIVE features



PREDICTED SETS & VALUES

Large Selection, including comparison %Pred, Z-score and LLN. Include GLI in PC-mode



EASY TO USE IN PRACTICE

ideal for family doctors, occupational medicine, sport medicine, generic practice



EHR/EMR CONNECTIVITY

Via PC, integration with patient database on your EHR/EMR (in HL7, GDT)



COVID-19 PREVENTION

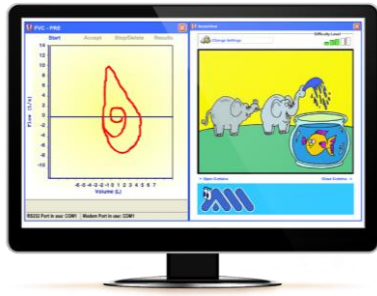
Complete Disposable Set with Antiviral filter available, to reduce risk of cross-contamination

Always INCLUDED

- Carrying case
- USB cable
- Noseclip
- PC Software license

Compatible SOFTWARE

winspiroPRO



Pediatric Incentive (PATENTED) to improve patient compliance during the test.

Acceptability Messages, Test interpretation and Quality Control Grade according to the latest **Spirometry Standards**

MAIN FEATURES

Windows-based solution for Spirometry, Oximetry and Telemedicine.

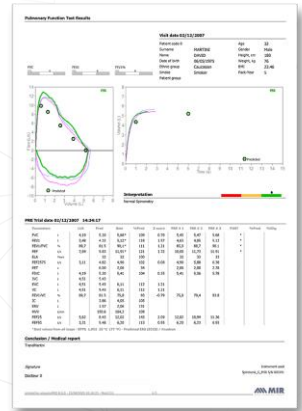
Wide range of predicted sets and values, including **GLI Predicted sets, LLN and Z-score.**

Embedded **EHR/EMR connectivity.**

NET VERSION available, share one database between different PC workstations.

MEDICAL REPORT

Specialized and **customizable printout**



spiro Connect



MAIN FEATURES

Windows-based solution, **direct integration** with your EHR/EMR.

Real time test include **Spirometry**

Standardized communication in **HL7 or Exchange Protocol.**

Select patient info directly from your own **EHR/EMR**

Spirometry test: FVC-Pre, FVC-Post, VC-Pre

GO-TO-MARKET TOOLKIT

Software Development Kit available for System Integrators and App Developers.
OEM service available for Spirometry and Oximetry.



Learn more about available SDK and OEM



Compatible TURBINES

flowMIR™
Disposable Turbine



Reusable Turbine



Mouthpiece

Included Disposable

Required, Not Included

Turbine Disinfection

Not required

Required

Turbine Calibration

Not required

Required

Packaging

Individually sealed: 60 or 10 units / box

1 unit in Carton box

Antiviral Filter

Available Disposable

Required Disposable

VISIT WEBSITE



SCIENTIFIC PUBLICATIONS



Also available in **MORE CONFIGURATIONS**



Technical Specification

Spirobank II Basic

Spirobank II Advanced

Spirobank II Smart

	Spirobank II Basic	Spirobank II Advanced	Spirobank II Smart
TYPE OF SPIROMETER	StandAlone + PC	StandAlone + PC, with Oximetry Option	StandAlone + PC + App, with Oximetry Option
COMPATIBLE TURBINES	flowMIR™ Disposable Turbine, Reusable Turbine Flowmeter	flowMIR™ Disposable Turbine, Reusable Turbine Flowmeter	flowMIR™ Disposable Turbine, Reusable Turbine Flowmeter
COMPATIBLE SOFTWARES		Winspiro PRO, spiro Connect	MIR Spiro App, Winspiro PRO, spiro Connect
EXTERNAL CONTROL	Real-Time test on PC screen, connect with your EHR/EMR, back-up internal memory and much more Connect to your PC via USB	Real-Time test on PC screen, connect with your EHR/EMR, back-up internal memory, and much more Connect to your PC via USB and Bluetooth 2.0	Real-Time test on Tablet screen and PC screen, connect with your EHR/EMR, back-up internal memory, and much more Connect to your PC via USB (no Bluetooth) Connect to your Tablet via Bluetooth Smart BLE 4.0
EHR CONNECTIVITY	Via PC, integration with patient database on your EHR/EMR (in HL7, GDT)	Via PC, integration with patient database on your EHR/EMR (in HL7, GDT)	Via PC: integration with patient database on your EHR/EMR (in HL7, GDT) Via APP: transfer data to a remote server in HL7 standards
MEASURED PARAMETERS	Spirometry: FVC, VC, IVC, PRE/POST Bronchodilator comparison Spirometry: FVC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75, FET, EVOL, ELA	Spirometry: FVC, VC, IVC, MVV, PRE-POST Bronchodilator comparison Oximetry (optional): Spot test (SpO2, BPM) Spirometry: FVC, FEV1, FEV1/FVC%, DTPEF, FEV 0.5, FEV0.5/FVC%, FEV0.75, FEV0.75/FVC%, FEV2, FEV2/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FEF75-85%, FET, Vext, ELA, EVOL, FIVC, FIV1, PIF, FIV1/FIVC%, FIF25%, FIF50%, FIF75%, R50, PIF, IRV, VC, IVC, IC, ERV, FEV1/VC%, TV, VE, RR, ti, te, ti/t-tot, TV/ti, MVV Oximetry (Optional): SpO2% (min, max, average), BPM (min, max, average), Test duration, % Bradycardia Duration (<40 BPM), % Tachycardia Duration (>120 BPM), % of Time with SpO2 ≤ 90% (T90%, T89%)	Spirometry: FVC, VC, IVC, MVV, PRE-POST Bronchodilator comparison Oximetry (optional): Spot test (SpO2, BPM) Spirometry: FVC, FEV1, FEV1/FVC%, DTPEF, FEV 0.5, FEV0.5/FVC%, FEV0.75, FEV0.75/FVC%, FEV2, FEV2/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25, FEF50, FEF75, FEF25-75, FEF75-85%, FET, Vext, ELA, EVOL, FIVC, FIV1, PIF, FIV1/FIVC%, FIF25, FIF50, FIF75, R50, PIF, IRV, VC, IVC, IC, ERV, FEV1/VC%, TV, VE, RR, ti, tE, ti/t-tot, TV/ti, MVV Oximetry (Optional): SpO2% (min, max, average), BPM (min, max, average), Test duration, % Bradycardia Duration (<40 BPM), % Tachycardia Duration (>120 BPM), % of Time with SpO2 ≤ 90% (T90%, T89%) on MIR Spiro App: Spirometry: FVC, VC, PRE/POST Bronchodilator comparison Parameters: FVC, FEV1, FEV1%, PEF, FEF25-75, FET, Lung Age, VC, IVC. Oximetry (Optional): %SpO2 [Baseline, Min, Max, Mean], Pulse Rate [Baseline, Min, Max, Mean] Events.

COMPARE ON WEBSITE



TECHNICAL datasheet

PRODUCT CODES - Spirobank II Basic Configurations

911021E0 - Spirometer

911021E1 - Spirometer with reusable turbine

Technical specification

Width	55 mm
Length	160 mm
Thickness	25 mm
Weight	140 g (battery pack included)

Turbine

Reusable turbine (code 910002)

Disposable turbine (code 910004)

Power supply

Rechargeable Lithium-Ion 3.7V, 1100

mAh
Current capacity 1100 mAh
Consumption ~20-30 mA (during test)

Backup battery voltage none

Batteries charger voltage=5 V DC,
 current=minimum 500 mA,
 input current= 100VAC - 240 VAC
 Connector : micro USB type B
 compliant with EN 60601-1

Autonomy

50 hours

Connectivity

USB 2.0

Display

LCD monochrome, 160 × 80 pixel

Keyboard

membrane keyboard with 6 keys

Mouthpieces

Ø 30 mm (1.18 inch)

Type of electrical protection

Internally powered

Safety level for shock hazard

Type BF Apparatus

Conditions of use

Apparatus for continuous use

Temperature: MIN -20 °C,
 MAX + 60 °C

Humidity: MIN 10% RH;
 MAX 95%RH

Temperature: MIN + 10 °C,
 MAX + 40 °C

Humidity: MIN 10% RH,
 MAX 95%RH

Humidity: MIN 10% RH,
 MAX 95%RH

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Humidity: MIN 10% RH,
 MAX 95%RH

Applied norms

Electrical Safety Standard
 EN 60601-1
 Electro Magnetic Compatibility
 EN 60601-1-2

Spirometry

Flow sensor	bi-directional digital turbine
Flow range	±16L/s
Volume accuracy	±2.5% or 50 mL
Flow accuracy	±5% or 200 mL/s
Dynamic resistance	<0.5 cm H2O/L/s
Temperature sensor	semiconductor (0-45°C)
Test available	FVC, VC, IVC, POST
Measured parameters	FVC, VC, IVC, IC, ERV, FEV1, FEV1%, PEF, FEF 25-75, FET, EVOL, ELA
Memory capacity	Up to 10000 tests

Certificates & Registrations

CE 0476	MED 9826
FDA 510 (k)	K 061712
Health Canada	71191 (class II)
CND code	Z12150102 (spiro)
GMDN code	46906 (spiro)
Ministry of Health	1271099/R (spirometer)

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