

SPIROBANK II BASIC®

Handheld, Stand-alone and PC-based Spirometer

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









MAIN features



REAL-TIME

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





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.



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

MAIN FEATURES

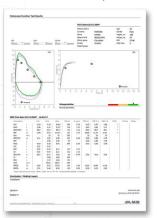
Windows-based solution for Spirometry, Oximetry and Telemedicine.

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 and Oximetry Standardized

communication in HL7 or Exchange Protocol.

Select patient info directly from your own EHR/EMR

Spirometry test: FVC-Pre, FVC-Post, VC-Pre Oximetry Test: SpO2 (%), Pulse (BPM)

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

Turbine Turbine Antiviral Mouthpiece Packaging Disinfection Calibration Filter flowMIR ™ Individually Included Not Available Not sealed: 60 or Disposable Disposable required required Disposable 10 units / box Turbine Required, Required 1 unit in Required Required Not Included Disposable Turbine Carton box







Also available in MORE CONFIGURATIONS







Technical Specification

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	Real-Time test on PC screen, connect with your EHR/EMR, back-up internal memory, and much more	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	Connect to your PC via USB and Bluetooth 2.0	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%, FEF25-85%, FEF75%, 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%, 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, t1, tE, t1/t-tot, TV/t1, 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.



TECHNICAL datasheet

PRODUCT CODES - Spirobank II Basic Configurations 911021EO - 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

50 hours **Autonomy USB 2.0** Connectivity

Display LCD monochrome, 160 × 80 pixel Keyboard membrane keyboard with 6 keys Ø 30 mm (1.18 inch)

Internally powered

Type BF Apparatus

Mouthpieces Type of electrical

protection Safety level for

shock hazard

Operating Conditions

Conditions of use Apparatus for continuous use

Conditions of storage Temperature: MIN -20 °C,

> MAX + 60 °C Humidity: MIN 10% RH;

MAX 95%RH

Temperature:

Humidity: MIN 10% RH,

MAX 95%RH

MIN + 10 °C, MAX + 40 °C

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 ±5% or 200 mL/s Flow accuracy 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

Up to 10000 tests Memory capacity

Certificates & Registrations

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

1271099/R (spirometer)

