



The most convenient way to access spirometry and oximetry data in one small device



Fast, Simple and Accurate



PC based Spirometer
Plugs directly into the
USB socket on your PC.



Online Oximetry (option) Sp02 and Pulse Rate analysis with several printouts available.



A multitask mini-laboratory Performant solution for all: Family Doctors, Occupational Health, Specialists.



OEM solutionsIdeal and easy custom made applications.







PC based Spirometer

Plugs directly into the USB socket on your PC.

On line PC connection with icon-based interface.

Real time Flow/Volume and Volume/time curves.

PRE-POST bronchodilator comparison.

Advanced spirometry test interpretation.

Pediatric incentive animations.

Lung age estimation.

Bronchial challenge test with FEV1 dose-response curve.

Temperature sensor for automatic BTPS conversion.

Selectable languages and predicted values.

Easy data export also via e-mail.

No batteries required.





A multitask mini-laboratory

Using a Laptop Minispir® allows complete portability for any application. It can be easily linked to Family Doctors, Occupational Health systems or other Specialist and Hospital medical databases.



Online Oximetry (option)

Minispir® calculates all parameters referred to in peer reviewed scientific literature (ie: min, max, mean SpO2 and Pulse Rate, Delta Index, T90%, T89%, T88%, T5 etc.). Flexible reporting with several printouts available.

OEM Spirometer/Oximeter

Ideal and easy solution for custom made USB applications. It is used worldwide to provide the most appropriate answer to all your spirometry and oximetry integration requirements.

OEM Development Kit included.

New WinspiroPRO

High performance PC software for spirometry and oximetry

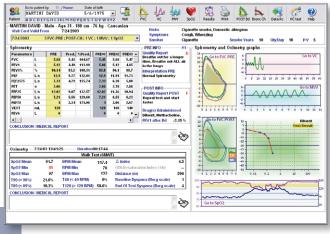
WinspiroPRO is a unique featured PC software, which comes standard with all MIR spirometers and oximeters.

Minispir® Plugs directly into the USB socket on your PC and it connects on line with winspiroPRO.

Network Version available.

WinspiroPRO can easily be linked to a database or to an EMR, hospital or occupational health system.

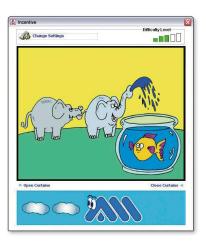
This software also gives trend of any parameter so is ideal for clinical trials and telemedicine.



Summary of all tests carried out

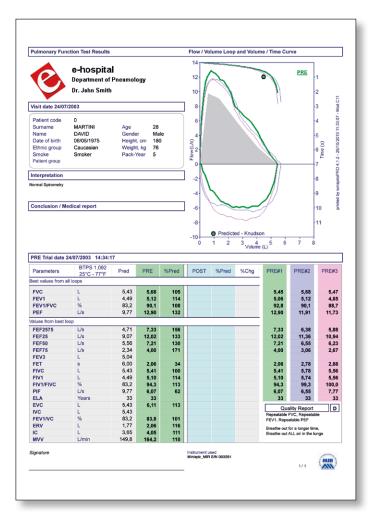
Comprehensive patient records

All patient records are shown on simple, single-screen patient cards, with dynamic management of all data and graphs.



Pediatric incentive animations

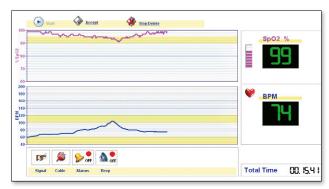
The spirometry incentive routine (MIR exclusive patent), allows the user to select the patient's favourite image in order to get his maximum compliance.



Printout: Spirometry report



Printout: Oximetry report



Online oximetry measurement



Minispir®

MIR Turbine Flowmeters (comply with ATS/ERS standards)



FlowMIR: disposable turbine

Spirometry testing requires maximum accuracy and hygiene.

FlowMir is the answer to both requirements. Each turbine is calibrated with a computerized system and it is packaged individually. After patient testing both the turbine and mouthpiece are thrown away. Only in this way 100% hygiene can be guaranteed.

Option available: reusable turbine

The accuracy and the precision of the reusable turbine remains unchanged even over time.



Minispir® Spirometer

Technical specifications

Temperature sensor: semiconductor (0-45°C) Flow sensor: bi-directional digital turbine

Flow range: ± 16 L/s

Volume accuracy: ± 3% or 50 mL Flow accuracy: ± 5% or 200 mL/s

Dynamic resistance at 12 L/s: <0.5 cmH2O/L/s

Communication port: USB

Power Supply: *line powered from USB port* Dimension: 2.1×5.0×1.0 inch (52×128×26 mm)

Weight: 2.5 Oz (70 gram)

Measured parameters

FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV

Minispir® Spirometer with Sp02 Opt

Technical specifications

SpO2 range: 0-99%

SpO2 accuracy: ± 2% between 70-99% SpO2

Pulse Rate range: 30-254 BPM
Pulse Rate accuracy: ± 2 BPM or 2%

Measured parameters

SpO2 [Baseline, Min, Max, Mean], Pulse Rate [Baseline, Min,

Max, Mean], T90 [SpO2<90%], T89 [SpO2<89%],

T88 [SpO2<88%], T5 [ΔSpO2>5%],

Δ Index [12s], SpO2 Events,

Pulse Rate Events [Bradycardia, Tachycardia]

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