



MiniSpir: PC based USB Spirometer with Oximetry option

The most convenient way to access a mini-laboratory in one small device

Fast, Simple, Accurate Plugs directly into the USB socket on your PC

No batteries and no other connection required
Ideal and easy solution for custom made applications

Complete tests results
Online oximetry measurement

*Spirometer FVC, VC, IVC,
MVV, PRE-POST BD.*

*Internal temperature
sensor for automatic BTPS
conversion.*

*Available with disposable or
reusable digital turbine
flowmeters.*

SPECIFICATIONS

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Spirometry printout

Oximeter 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.)

winspiroPRO

software Spirometry program
On line PC connection with icon-based interface.
Real time Flow/Volume and Volume/time curves.
PRE-POST bronchodilator comparison.
Advanced spirometry test interpretation.
Paediatric incentive animations.
Lung age estimation.
Bronchial challenge test with FEV1 dose-response curve.
Several sets of predicted values.
Integration with EMR systems.
Data export also via e-mail.
Oximetry program
Complete SpO2 and Pulse Rate graphic trends.
Statistical analysis for assessing desaturation events.
Flexible reporting with several printouts available.

Two different flowmeters available
FlowMir disposable turbine for single patient use
High accuracy. Easy to replace. Very low cost.
Designed for use with MIR spirometers.
FlowMIR is factory calibrated. Available in box of 100 pieces. No maintenance - No filter - No problem. Hygiene 100% guaranteed by single packaging. MIR digital reusable and disposable turbines are developed in full compliance with ATS standards and guarantee accuracy in all environmental conditions
Reusable turbine for long term operation
High accuracy Long term stability Easy to clean or sterilize

Standard price includes

MiniSpir base unit.
USB cable.

Carrying bag.
winspiroPRO software CD.

Available options

Digital Oximeter module.
Adult reusable SpO2 finger probe.
Paediatric reusable SpO2 finger probe.
Finger probe extension cable.

Technical specifications Spirometer

Parameters:

(*Best value) 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

Temperature sensor: semiconductor (0-45°C)
Flow sensor: bi-directional digital turbine
Flow range: ± 16 L/s
Volume accuracy: $\pm 3\%$ or 50 mL
Flow accuracy: $\pm 5\%$ 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: 52 x 128 x 26 mm
Weight: 70 grams
Carrying-case: included
Option: digital oximeter
SpO2 range:
0-99%
SpO2 accuracy: $\pm 2\%$ between 70-99% SpO2
Pulse Rate range: 30-254 BPM
Pulse Rate accuracy: ± 2 BPM or 2%

winspiroPRO PC system requirements

Microsoft Windows: Vista, 2000, Me, XP, 98 (Second Edition)
Screen resolution: 1024 x 768
Hard disk space required: 160MB
USB socket available

Quality spirometry

CE 0476, FDA Approved; ATS Standard, ISO 9001-2000, 13485