

Minispir® Spirometer

Technical specifications

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: 52x128x26 mm (2.1x5.0x1.0 inch)
 Weight: 70 gram (2.5 Oz)



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® Light Spirometer

Technical specifications

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: 52x128x26 mm (2.1x5.0x1.0 inch)
 Weight: 70 gram (2.5 Oz)



Measured parameters

FVC, FEV1, FEV1%, FEV6, PEF, FEF25-75%,
 FIVC, Lung Age, VC, IVC.

Minispir® Spirometer with SpO₂ option

Technical specifications

SpO₂ range: 0-99%
 SpO₂ accuracy: $\pm 2\%$ between 70-99% SpO₂
 Pulse Rate range: 30-300 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 [Δ SpO₂>5%], Δ Index [12s], SpO₂ Events, Pulse Rate Events
 [Bradycardia, Tachycardia]

FlowMIR® disposable turbine Complies with ATS/ERS standards



OEM Development Kit
 available for both
Minispir® and **Minispir® light**

Spirometry testing requires maximum accuracy and hygiene. FlowMir® is the answer to both requirements. Each turbine is calibrated with a computerized system and is packaged individually. After patient testing both the turbine and mouthpiece are discarded.

Only in this way 100% hygiene can be guaranteed.

MIR Medical International Research
 Via del Magliolino, 125
 00155 Roma (Italy)
 Tel. +39 06.22754777

www.spirometry.com - www.oximetry.com
mir@spirometry.com

MIR USA, Inc.
 1900 Pewaukee Road
 Waukesha, WI 53188
 Tel. +1 (262) 565.6797

www.spirometry.com - www.oximetry.com
mirusa@spirometry.com

New Minispir[®] Line

MIR
MEDICAL INTERNATIONAL RESEARCH

COPD and Asthma screening has never been so intuitive and inexpensive. From the world leader of diagnostic solutions for Spirometry, Oximetry and Telemedicine, two new PC based devices:

Minispir[®]
for complete
respiratory analysis

Minispir[®] Light
for essential
spirometry testing

Ideal for integrated
custom applications.

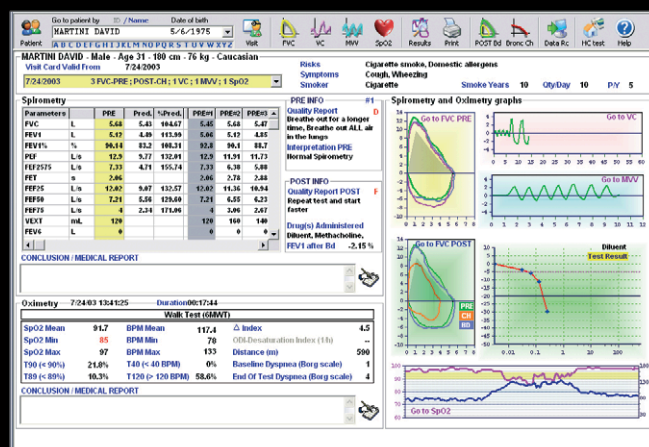
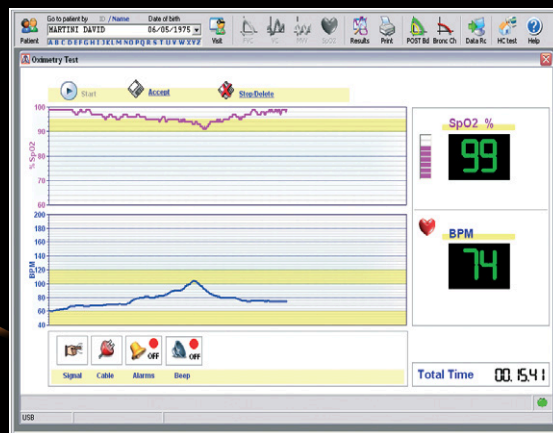


Minispir®

mini-laboratory
for spirometry and oximetry

WinspiroPRO

high performance
PC software



WWW.OXIMETRY.COM

Plugs directly into the USB port.
Real time Flow/Volume loop and Volume/time curve with PRE/POST comparison.

Advanced spirometry test interpretation.
Pediatric incentive animations.
Lung Age.

Bronchial provocation test including new **Mannitol** protocol with FEV1 response curve.
Temperature sensor for BTPS conversion.

Option available: embedded Oximeter.

WinspiroPRO is a unique software, which comes standard with **Minispir®**.

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

WinspiroPRO can easily be connected to a database or EMR, hospital or occupational health system (**HL7 interface**).

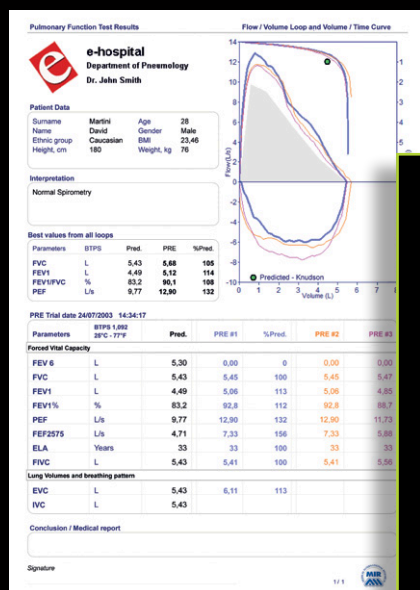
Supports **NHANES III** standard.
Network Version available on request.

Minispir® light

COPD and Asthma intuitive screener

Winspiro light

simplified spirometry PC Software

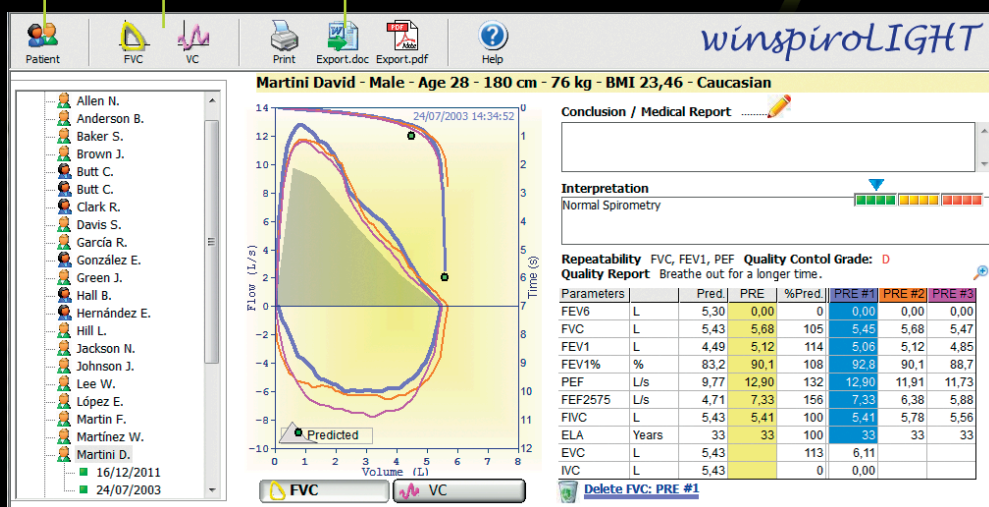


All spirometry functions in one screenshot

Patient Data

Spirometry Test

Print and Export



WWW.SPIROMETRY.COM

Plugs directly into the USB port.

Minispir® light measures the essential parameters for a diagnostic spirometry: FEV6, FVC, FEV1, FEV1%, PEF, FEF2575, FVC, Lung Age, VC, IVC.

Flow/Volume loop and Volume/Time curve.

Spirometry test interpretation.

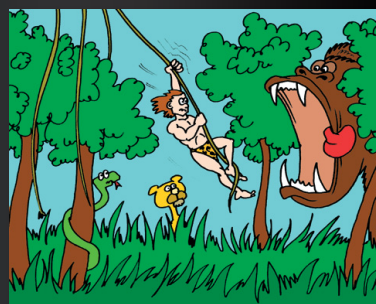
Temperature sensor for BTPS conversion.

Inexpensive and easy to use, Minispir® light

meets the requirements of integrated healthcare platforms and tablets applications.

Special edition available for POST BD test.

Winspiro light is an intuitive and efficient software, which comes standard with Minispir® light for complete diagnosis.



Data export also via Email.

Pediatric Incentive Animations