MIR
MEDICAL INTERNATIONAL RESEARCH

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 cmH$_2$O/L/s
Communication port: USB
Power Supply: line powered from USB port
Dimension: 52×128×26 mm (2.1×5.0×1.0 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: ± 3% or 50 mL
Flow accuracy: ± 5% or 200 mL/s
Dynamic resistance at 12 L/s: <0.5 cmH$_2$O/L/s
Communication port: USB
Power Supply: line powered from USB port
Dimension: 52×128×26 mm (2.1×5.0×1.0 inch)
Weight: 70 gram (2.5 Oz)

Measured parameters

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

Minispir ® Spirometer with SpO$_2$ option

Technical specifications

SpO$_2$ range: 0-99%
SpO$_2$ accuracy: ± 2% between 70-99% SpO$_2$
Pulse Rate range: 30-300 BPM
Pulse Rate accuracy: ± 2 BPM or 2%

Measured parameters

SpO$_2$ [Baseline, Min, Max, Mean],
Pulse Rate [Baseline, Min, Max, Mean],
T90 [SpO$_2$<90%], T89 [SpO$_2$<89%], T88 [SpO$_2$<88%],
T5 [ΔSpO$_2$>5%], Δ Index [12s], SpO$_2$ Events, Pulse Rate Events
[Bradycardia, Tachycardia]

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

FlowMIR ® disposable turbine
Complies with ATS/ERS standards

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 reserves the right to modify the technical characteristics at any time

New Minispir® Line

MIR
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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
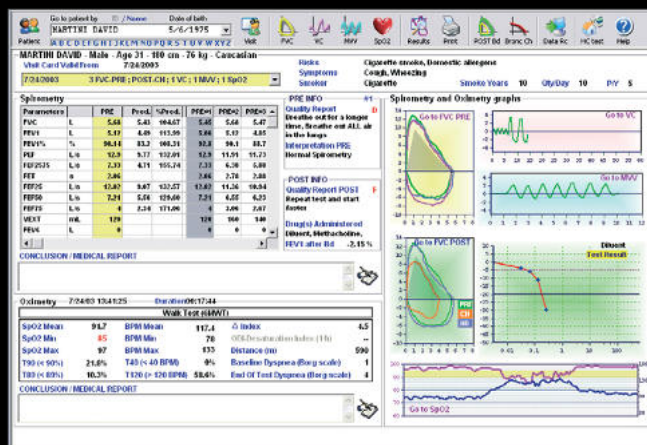**custom applications.**

Minispir®
mini-laboratory
for spirometry and oximetry

WinspiroPRO
high performance
PC software

Pediatric Incentive Animations

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
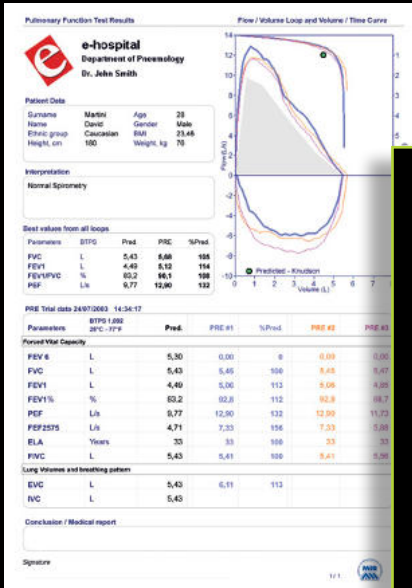occupational health system **(HL7 interface)**.

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

Minispir ® *light*
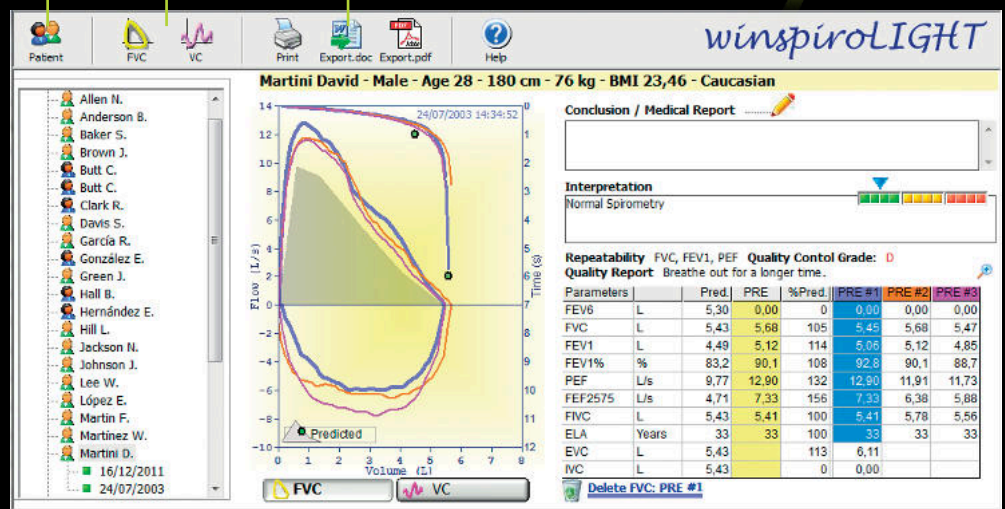## COPD and Asthma
intuitive screener

Winspiro *light*
simplified spirometry
PC Software

All spirometry functions in one screenshot

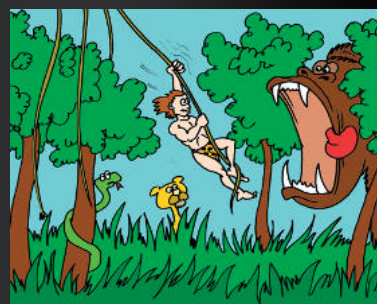Patient Data

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, FIVC, 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