New Minispir® Line
USB Spirometers

COPD and Asthma screening has never been so intuitive and inexpensive

Ideal for integrated custom applications

Minispir® for complete respiratory analysis

Minispir® Light for essential spirometry testing

www.spirometry.com www.oximetry.com
Minispir®
mini-laboratory
for spirometry and oximetry

WinspiroPRO®
high performance
PC software

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.
Estimated Lung Age (ELA).

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

Option available: Oximeter module
(it can be purchased separately)

WinspiroPRO® is a unique spirometry and oximetry 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 hospital database or EMR and occupational health system. (HL7 interface)

Supports NHANES III standard.
Network Version available on request

www.oximetry.com
Minispir® light measures the essential parameters for a diagnostic spirometry:
FEV6, FVC, FEV1, FEV1%, PEF, FEF25-75, 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 tablet 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

www.spirometry.com
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: 142x49.7x26 mm
- Weight: 65 gram (2.5 Oz)

**Measured parameters**
- FVC, FEV1, FEV1%, FEV6, FEF25%
- FEV3, FEF75%, FEF25-75%, FET, Vext,
- Lung Age, FIVC, Lung Age, VC, IVC

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 cmH2O/L/s
- Communication port: USB
- Power Supply: line powered from USB port
- Dimension: 142x49.7x26 mm
- Weight: 65 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: ± 2% tra 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 [ΔSpO2>5%], Δ Index [12s], SpO2 Events, Pulse Rate Events [Bradyarctica, Tachyactria]

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 factory calibrated with a computerized system and packaged individually.

After patient testing both the turbine and mouthpiece are discarded.

The only solution to guarantee 100% cross contamination free testing!

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MIR reserves the right to modify the technical characteristics at any time