



# Minispir<sup>®</sup> New

PC-based Spirometer with Oximetry option

The Minispir<sup>®</sup> New is a simple, easy to use spirometer that connects directly to a desktop PC or laptop via USB. It utilises the WinSpiro PRO<sup>®</sup> PC software allowing full spirometry tests to be performed with the pulse oximetry option.

The software is licence-free, powerful and easy to use with PRE/POST Bronchodilator comparison, with a wide range of selectable parameters available for full diagnostic spirometry. This includes testing for FVC, VC, IVC, MVV, Bronchodilator Reversibility, Bronchial Challenge with FEV<sub>1</sub>-response curve with protocols for both Methacholine and Mannitol. Testing is in real time offering live visuals of the flow/volume and volume/time curves together with actual values and interpretation.

The WinSpiro PRO<sup>®</sup> software provides fully comprehensive reports that can be easily exported. Reports can also be customised. The software also accommodates the use of the optional pulse oximeter for live on-screen analysis of oxygen blood saturation levels (%SpO<sub>2</sub>) and pulse rate (BPM). The optional oximeter plugs directly into the Minispir sensor.

The Minispir<sup>®</sup> features an embedded temperature sensor for BTPS conversion.

## Re-usable and disposable consumable options

The Minispir<sup>®</sup> New sensor uses both re-usable and single-use disposable turbines. Re-usable turbines are used with standard adult one-way valve mouthpieces. The single-use disposable turbines have a pre-connected mouthpiece and are individually factory calibrated and packaged.

## KEY FEATURES

- **PC-based spirometer**  
Connects directly to a PC via USB
- **Licence-free WinSpiro PRO<sup>®</sup> software**  
Easy to use software with real time testing
- **Real time spirometry**  
Real time Flow/Volume loops and Volume/Time curves with PRE/POST comparison
- **Comprehensive reporting**  
Customisable reports that can be exported
- **Quanjer 2012–GLI Predicted values with LLN and Z-score**
- **Paediatric incentive animations**
- **Optional Pulse Oximetry**

Re-usable turbine



Disposable turbine



# MIR Minispir® New

TECHNICAL SPECIFICATIONS	
Device category	Diagnostic spirometer
Spirometry 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
Flow measurement	± 16 L/s
Volume accuracy	± 3% or 50 mL
Flow accuracy	± 5% or 200 mL/s
Flow sensor	Bi-directional digital turbine
Dynamic resistance at 12 L/s	<0.5 cmH2O/L/s
Temperature sensor	Semiconductor (0-45°C), automatic BTPS conversion
Data transmission	USB
Power	Line powered from USB port
Dimensions	142 x 49.7 x 26 mm
Weight	65g
<b>Pulse Oximetry Specifications (Upgrade to be purchased separately)</b>	
SpO2 range/accuracy	0-99%SpO2 / ±2% between 70-99%SpO2
Pulse range/accuracy	30-254BPM / ±2BPM or 2% (Whichever is greater)
Oximetry alarms	SpO2 and pulse rate Min-Max, finger/sensor inserted, battery out of energy
Oximetry tests	%SpO2 and Pulse Rate (Min, Max, Average), T90% (SpO2<90%), T89% (SpO2<89%), T88% (SpO2<88%), T5% (ΔSpO2>5%), Δ Index (12s), SpO2 Events, Pulse Rate Events (Bradycardia, Tachycardia)

## Ordering Information

PART NUMBER	DESCRIPTION
MR-911000E1	MIR Minispir® New with re-usable turbine
MR-911000E2	MIR Minispir® New with 100 x disposable turbine
MR-910002	Replacement re-usable turbine
MR-910004	Disposable turbines (Box of 50)
881002	One-way valve adult mouthpieces for re-usable turbine (Box of 200)

*For Pulse Oximetry upgrade, please contact the provider*

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