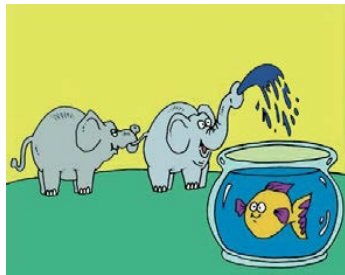


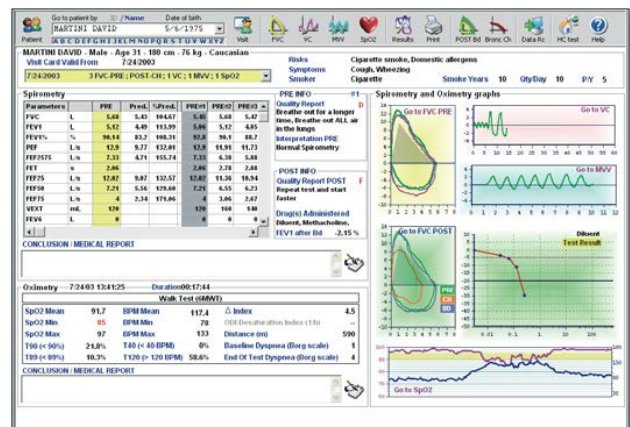
# Minispir 2 USB Spirometer

**Minispir®**  
mini-laboratory  
for spirometry and oximetry

**WinspiroPRO®**  
high performance  
PC software



**Pediatric Incentive Animations**



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**



**Medical and Surgical Requisites Pty Ltd**

Call within Brisbane 07 3859 2900 33 Fulcrum Street Richlands Queensland 4077 www.medsurg.com.au  
Phone 1300medsurg (1300 633 787) Email medical@medsurg.com.au Fax 07 3859 2995



# COPD & Asthma screening has never been so intuitive & inexpensive

## Ideal for intergrated custom applications



### Minispir® Spirometer

#### Technical specifications

Temperature sensor: semiconductor (0-45°C)  
 Flow sensor: bi-directional digital turbine  
 Flow range:  $\pm 16$  L/s  
 Volume accuracy:  $\pm 3\%$  or 50 mL  
 Flow accuracy:  $\pm 5\%$  or 200 mL/s  
 Dynamic resistance at 12 L/s:  $<0.5$  cmH<sub>2</sub>O/L/s  
 Communication port: USB  
 Power Supply: line powered from USB port  
 Dimension: 142x49.7x26 mm  
 Weight: 65 grammi



#### Measured parameters

FVC, FEV1, FEV1%, FEV3, FEV3%, FEV6, FEV1/FEV6%,  
 PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext,  
 Età polmonare, FIVC, FIV1, FIV1%, PIF, VC, IVC, IC, ERV,  
 FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV

### Minispir® Spirometer with SpO2 option

#### Technical specifications

Misura SpO<sub>2</sub>: 0-99%  
 Accuratezza SpO<sub>2</sub>:  $\pm 2\%$  tra 70-99% SpO<sub>2</sub>  
 Misura Frequenza Polso: 30-300 BPM  
 Accuratezza frequenza polso:  $\pm 2$  BPM o 2%

#### Measured parameters

SpO<sub>2</sub> [Baseline, Min, Max, Mean],  
 Pulse Rate [Baseline, Min, Max, Mean],  
 T90 [SpO<sub>2</sub><90%], T89 [SpO<sub>2</sub><89%], T88 [SpO<sub>2</sub><88%],  
 T5 [ $\Delta$ SpO<sub>2</sub>>5%],  $\Delta$  Index [12s], SpO<sub>2</sub> Events, Pulse Rate  
 Events [Bradycardia, Tachycardia]



### MIR Turbine Flowmeters (comply with ATS/ERS standards)



#### FlowMIR: disposable turbine

Spirometry testing requires maximum accuracy and hygiene.

FlowMir is the answer to both requirements. Each turbine is calibrated with a computerized system and it is packaged individually. After patient testing both the turbine and mouthpiece are thrown away. Only in this way 100% hygiene can be guaranteed.

#### Option available: reusable turbine

The accuracy and the precision of the reusable turbine remains unchanged even over time.



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