

SPIROTHOR

MOBILE HANDHELD SPIROMETER



GENERAL DESCRIPTION

SpiroThor is a pulmonary function diagnostics and monitoring device.

SpiroThor is suitable for screening COPD and asthma.

SPECIFICATIONS

- Flow measurement principle: **IDEGEN**™ multiple-path
- Flow tube diameter: 30 mm (OD)
- Dead space: 16,8 mL
- Flow resolution: 8 mL/s
- Flow precision: 2 %
- Flow range: +- 18 L/s
- Connection to PC or PDA or Mobile Phone: **Bluetooth**
- Connection to PC: **USB or Bluetooth**
- Device dimensions: 85 X 120 X 35 mm
- Power supply: **USB 5V or 4,2V battery (rechargeable, included)**
- Graphical user interface: **QVGA (320 X 240 px), 16M colors**
- No moving parts

Built-in automatic internal calibration
Diagnostic decision support system
Innovative diagnostic visualization
Zero cross-contamination (easy to disinfect)

THOR
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SPIROTHOR

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Haemoglobin saturation
(integrated oximeter)



ThorSoft Pulmonary Diagnostics PC software

- All standard medical interfaces (HL7, GDT, BDT, XML)
- Automatic interpretation module
- Diagnostic decision support system for general practitioners and physicians
- Complete stress testing procedures

ADDITIONAL FEATURES

- Flow measurement principle:  IDEGEN™ multiple-path
- Standard pulmonary function parameters:
(FVC, -FEV*0.5, FEV*0.5/IVC, FEV*0.5/FVC,
FEV*1.0/IVC, FEV*1.0/FVC, PEF, FEF*25-75%,
MEF*75%, MEF*50%, MEF*25%, FET, MTT,
FIVC, FIV*0.5, FIV*1.0, PIF, FIF*25-75%,
VC, IRV, ERV, TV, Peep (Pressure min), Breath rate value
- Insp./Expi Ratio : From 1:10 to 10:1



Small, handheld bluetooth (wireless) thermoprinter

- no printer toner or ink required, only thermo paper,
- reduced costs on the long term!

MISCELLANEOUS

- Automatic internal calibration, (external validation with calibration pump available as an option),
- Tele-medical connection via Bluetooth,
- Firmware upgrade option via Internet,
- Plug & Play USB PC connection detection,
- Easy upgrade, standard interfaces, e.g. O₂ or CO₂ analog boards attachable,
- Human voice communication with the patient,
- Long-term monitoring for home care use,
- Pharmaceutical testing subsystem,
- The inner surface of the flow tube is continuous, it can be disinfected with cold disinfecting liquid InstruMed

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