

Spiropalm

Economical and Effective Hand-Held Spirometry



- Complete spirometry testing -- (FVC, SVC, MVV)
- Bidirectional testing (inspiratory and expiratory)
- Pre/Post comparison
- Bronchial challenge testing
- COPD diagnosis based on Bronchodilator test
- Optional pulse oximetry
- High-resolution LCD display
- Real time graphs
- “Bubbles” pediatric incentive

- Alphanumeric keyboard for personalizing reports
- Internal memory stores up to 1,000 tests
- Full page reports with USB connection to external printer
- Store reports on flash drive
- PC interface -- Spirometry management software included
- Can function as a PC-based spirometer
- Rechargeable batteries allow hours of testing in any setting
- Compliant with ATS and ERS standards
- Meets occupational testing standards



**Ideal for evaluation of
Asthma, Chronic Bronchitis,
and COPD, as well as
Occupational Testing and
Smoking Cessation Programs**

FUTUREMED®

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Spiropalm -- Effective and Economical Spirometry

Spirometry Parameters

FVC • FEV1 • FEV1/FVC% • PEF • FEV6 • FEV6/FVC • FEV1/FEV6 • FEF25-75% • FET 100% • VEXT • FIVC • PIF • VC (SVC) • IVC • MVV • FEV1/VC% • ERV • IRV • VE • Rf • ti • te • Ti/Ttot • Vt • Vt/Ti • IC • MEF75% • MEF50% • MEF25% • Best FVC • Best FEV1 • MRf • MVt • MVVt • Lung Age

Predicted Values

NHANES III • Knudson 83 • ITS • ERS 1993 (ECCS 1983) • ECCS 1971 • Zapletal • LAM • Pneumobil • Gutierrez (Chile) • Multicèntrico Barcelona • Thai 2000 • Austria (Forche) • Crapo 1981 • User defined predicted calculations.

Technical Specifications

Hardware

Dimensions (mm/inches)	185mm x 86mm x 31mm 7.25"x3.25"x1.75"
Weight (grams/ounces)	390g / 13.5 oz.
Display	LCD B/W 320x240 pixel
Internal Memory	Up to 1000 tests / patients
Calibration	3L calibration syringe (optional)
Display	LCD B/W 320 x 240 pixels
Languages	English, Spanish, French, Portugese, Italian, German, Dutch, Chinese (Mandarin), Korean, and Turkish.

Spirometry Specifications

Flowmeter	Digital Turbine
Type	Bi-directional
Flow Range	0.08 20 l/s
Volume Range	0 - 12 liters
Reading accuracy	±2%
Resistance	<0.6 cm H ₂ O l/s @ 14 l/s
Temperature sensor	0°C - 50°C

Electrical Specifications

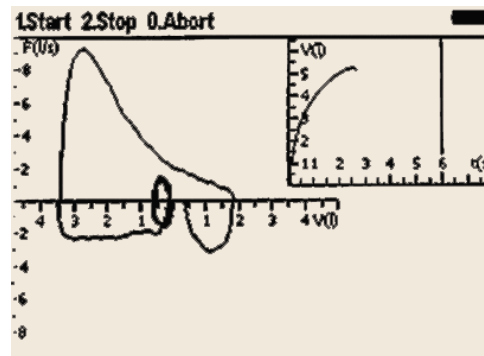
Internal Batteries	Rechargeable Li - Ion 1800mAh
Battery Charger	Input 100-240 Vac 200mA, Output 12Vdc 700mA

Safety and Quality Standards

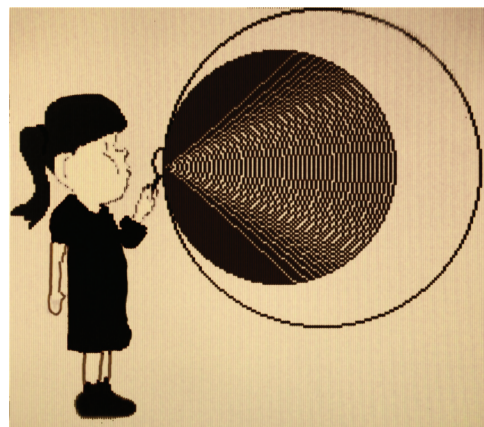
FDA (510k); MDD (93/42EEC); EN 60601 - 1 (safety) / EN 60601 - 1 - 2 (EMC)

Spiropalm Package

Order #55000, which includes: Spiropalm, Digital Flowmeter (Reader Handset and Turbine), Battery Charger, Flash Drive (for Spiropalm), Spirometry Management Software, USB Cable, Adult and Pediatric Mouthpieces, Disposable Noseclips, Filters, and Pediatric Adapter.



Real-time graphs



"Bubbles" pediatric incentive

Spiropalm Optional Accessories

Part #	Description
39250	3 liter calibration syringe
39295	Viral /bacterial filters - box/50
39295-PD	Pediatric Bacterial Filters
39298	One-way mouthpieces - box/100
35070	Adult mouthpieces - box/100
35080	Adult mouthpieces - box/1000
35090	Pediatric mouthpieces - box/100
35100	Pediatric mouthpieces - box/1000
39290	Disposable noseclips - box/100
39255	External printer



FUTUREMED®

Federal law (USA) restricts this device to sale by or on the order of a physician. Specifications subject to change.