

Spiropalm 6MWT

Integrated pulse oximetry and ventilatory response measurement

- Real time testing for standard Six-Minute Walk Test (6MWT)
- Measurement of Minute Ventilation (VE) and Breathing Pattern during walking
- Measurement of Breathing Reserve (BR) with ventilation limitation statement
- Integrated HR and SpO₂ monitoring
- Evaluation of Dynamic Hyperinflation with Inspiratory Capacity (IC) measurement
- Spirometry management software included
- Test results can be generated on an external printer or stored on a flash drive
- Adjustable timer -- 2 to 30 minutes
- Portable and easy to use -- device attaches at patient's waist.



Spiropalm 6MWT provides clinicians an integrated solution for administering the Six-Minute Walk Test. This innovative configuration features state-of-the-art

portable spirometry coupled with pulse oximetry and ventilation measurement.

With the integrated oximeter, the technician is able to monitor the patient's SpO₂ during the 6MWT, then have a complete O₂ saturation report for oxygen prescription immediately after the test has been completed.

Technicians are also able to assess ventilatory limitation, as Spiropalm 6MWT allows measurement and evaluation of hyperinflation and air-trapping in patients with pulmonary disease.

The device fits around the patient's waist -- either with an elastic belt and holder or attached to a waistband -- making Spiropalm 6MWT a convenient and comfortable diagnostic tool.

Spiropalm 6MWT also offers complete spirometry testing, including Forced Vital Capacity (FVC), Slow Vital Capacity (SVC), Maximal Voluntary Ventilation (MVV), Pre- and Post- Testing, and Bronchial Challenge Testing.

FUTUREMED®

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Spiropalm 6MWT

6MWT Parameters

Duration • Distance • Borg Dyspnea (Baseline, Final) • Borg Fatigue (Baseline, Final) • 6MWW • 6MWD (Pred., Min.) • SpO₂ (Baseline, Min., Avg., Final) • T (Δ SpO₂ \geq 4%) • T (\leq 88%) • HR (Baseline, Max., Final) • FEV1 (Baseline, Pred.) • VE (Baseline, Peak, Final) • BR (Baseline, Min., Final) • RF (Baseline, Peak, Final) • IC (Baseline, Final)

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

Technical Specifications

Hardware

Dimensions (mm/inches) 185mm x 86mm x 31mm
7.25" x 3.25" x 1.75"
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)
Adjustable Recording Time 2-30 minutes

Spirometry Specifications

Flowmeter Digital Turbine
Type Bi-directional
Flow Range 0.08 20 l/s
Volume Range 0 - 12 liters
Reading accuracy \pm 2%
Resistance <0.6 cm H₂O l/s @ 14 l/s
Temperature sensor 0°C - 50°C

Electrical Specifications

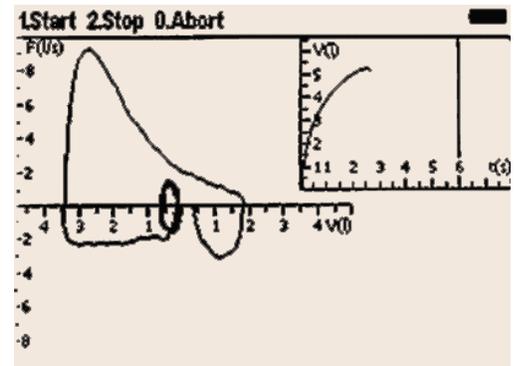
Internal Batteries Rechargeable Li - Ion 1800mAh
Battery Charger Input 100-240 Vac 200mA,
Output 12Vdc 700mA

Safety and Quality Standards

Equipment complies with MDD (93/42 EEC); EN 60601 - 1 (safety) / EN 60601 - 1 - 2 (EMC)

Spiropalm 6MWT Package

Spiropalm, Digital Flowmeter, Flowmeter Handle, Oximeter, Battery Charger, USB Cable, Flash Drive, Spirometry Management Software, Adult VO₂ Mask, Head Cap for Adult Mask, Mouthpieces, and Carrying Case.



Spiropalm 6MWT spirometry screen shot

1Test 2Print 3Diagn. 4Disp.BC 5Erase 0Exit

Param	Meas	Pred
Distance(m)	294	492
DYSPNEA end	6	
FATIGUE end	4	
End SpO ₂ (%)	94	
Min SpO ₂ (%)	92	
Final SpO ₂ (%)	96	
Max VE(l/m)	29.6	
BR(%)	20.0	
Max HR(1/min)	66	

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Spiropalm 6MWT screen shot: End of test

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

