

Spiropalm

Hand-held Spirometer

“Effective, simple lung screening in any environment”



- Full spirometry testing (FVC, SVC, MVV, Pre/Post BD)
- High accurate bidirectional turbine flowmeter reliable in any conditions
- Internal memory of up to 600 tests/patients
- Integrated Digital Oximeter (optional) for HR and SpO2 monitoring
- USB connection to external printer or PC
- Provided with OMNIA software for data management, real time testing and interpretation on PC

Accurate and easy to use hand-held device for flexible spirometry screenings

Spiropalm is the new hand-held spirometer from COSMED, ideal for easy and accurate spirometry screening wherever it is needed.

Spiropalm is compact, extremely light and with black and white LCD display allowing real time monitoring of test performance, and encouragement features for children and non-cooperative patients. Spiropalm allows to print reports with PCL compatible printers directly via USB connection. Colour printouts can also be produced through the included PC software.

Spiropalm incorporates the well proven COSMED bidirectional digital turbine technology, which is extremely accurate and reliable in any conditions.

Spirometry tests can be also performed real-time with Spiropalm connected to a PC through the powerful software OMNIA (included in the standard package). OMNIA is easy and intuitive thanks to its innovative user interface and includes beautiful pediatric incentivitation for spirometry tests with selectable effort grade.

OMNIA encompasses all the latest industry standards for spirometry tests, including the 2005 ATS/ERS Consensus Statement on the “Standardization of the measurement of spirometry” and the 2012 Global Lung Initiative (GLI) predicted sets.



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The Metabolic Company

Validation articles

- Crapo R. O. (LDS Hospital) 2004 "Validation of COSMED turbine vs ATS 24 standard volume-time waveforms "
- More scientific studies on www.cosmed.com/bibliography



Technical Specifications

Product	Description	REF
Spiropalm	Handheld Spirometer	C09064-01-99
Standard packaging	Main Unit, PC software (Omnia) and user manual, flowmeter, adult paper mouthpieces (20 pcs), pediatric paper mouthpieces (5 pcs), pediatric adapter, antibacterial filters (5 pcs), nose clips (2 pcs), AC/DC adapter, USB cable.	
Standard Tests (Spirometry)		
Tests	Forced Vital Capacity (FVC) Pre/Post, Slow Vital Capacity (SVC) Pre/Post, Maximum Voluntary Ventilation (MVV), Bronchochallenge - Bronchial Dilator/Constrictor test	
Measured Parameters (partial listing)	FVC • IVC • VC • MVV • VT • FEV1 • FEV6 • FEV1/FEV6 • FEV6/FVC • PEF • PIF • FEV1/FVC • FEF 25-75 • FEV1/VC% • %FEV1 • MEF25% • MEF50% • MEF75% • FET 100% • Lung Age • ERV • IRV • VE • Rf • ti • te • ti/t.tot • VT/ti • Best FVC • Best FEV1 • IC	
Predicted Values (partial listing)	2012 Global Lung initiative (GLI), ERS 1993 (ECCS 1983), NHANES III, Knudson 83, ECCS 1971, ITS, Zapletal, LAM, Pneumobil, Gutierrez (Chile), Multicentrico Barcelona, Thai 2000, Austria (Forche), Crapo 1981 user defined predicted calculations.	
Automatic Interpretation	ATS/ERS 2005 (Spirometry), GOLD COPD, ATS/ERS 2005 (Obstruction Reversibility based on FVC Post BD), ATS/ERS 2007 (Obstruction Reversibility based on Rocc)	
Hardware		
Dimensions & Weight	185x86x31 cm / 390 gr	
Interfaces	USB-A, USB-B (external printer)	
Display	LCD B/W 320 x 240 pixel (amber backlighted)	
Batteries	1 Rechargeable Li-ion battery (1800 mAh)	
Power supply	Input: AC 100-240V, Output: DC 12 V	
Flowmeter	Turbine Ø-28mm	
Type	Bidirectional Digital Turbine	
Resolution	12 ml	
Ventilation Range	0-300 l/min	
Flow Range	0-16 l/s	
Accuracy	± 2% or 20 ml/s	
Resistance	<0.8 cmH ₂ O /l/s @ 14l/s	
Software	OMNIA	
Available languages	English, Italian, French, German, Spanish, Dutch, Russian, Chinese, Portuguese	
Required PC Configuration	1.4 GHz or faster processor speed. Compatible with Vista (32/64), Windows 7 (32/64), Windows 8 (32/64). RAM 4GB (8GB recommended). 500 MB of free disk space	
Options & Accessories		
Pulse Oximetry	Oximeter Ipod (including finger clip probe)	C02390-01-05
Calibration syringe	3L syringe for accuracy check of flow volume measurements	C00600-01-11
Consumables		
Antibacterial filters	Single-use filters to prevent bacterial and viral cross contamination (box contains 50 pcs)	A-182-300-004
Nose clips	Clips for performing spirometry tests (box contains 5 pcs)	C00441-01-98
Paper mouthpieces	For spirometry testing (box contains 500 pcs)	C01805-01-98 (adult) C01814-01-98 (pediatric)
Safety & Quality Standards		
MDD (93/42 EEC); FDA 510(k); EN 60601-1 (safety) / EN 60601-1-2 (EMC) Complies with ATS/ERS 2005 guidelines		

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0476



COSMED Srl

Via dei Piani di Monte Savello 37
Albano Laziale - Rome 00041, Italy

+39 (06) 931-5492 Phone
+39 (06) 931-4580 Fax

info@cosmed.com | cosmed.com

To know more:

