SpiroSonic SMART

SpiroSonic SMART is a stand-alone solution for pulmonologists, general practitioners and personal use.

Optimal lung function depends on accurate diagnosis and preventive therapies. That's why so many pulmonologists, and general practitioners around the globe rely on Uscom SpiroSonic spirometers for comprehensive pulmonary function analysis, and diagnostic support.

Uscom SpiroSonic SMART brings advanced ultrasonic digital spirometry in a portable, touch-screen solution for use in the management of pulmonary disease. Uscom spirometers are specialised for the assessment of asthma, COPD, and screening for O.L.D.

For Every Breath You Take

SpiroSonic SMART

Features

- Multi-path digital **ultrasonic** technology
- Automatic internal calibration
- Low flow resistance
- Patient database stores over 4000 measurements
- Digital voiceguided operation
- Diagnostic support
- Simple and effective disinfection
- Multilingual measurement tutorial
- Telemedicine: connectivity via USB or Bluetooth to third party solution

Specifications

Volume Accuracy	± 3% or 50 mL whichever is greater
Flow Accuracy	± 3% or 50 mL/s whichever is greater
Maximum Volume	± 20 L
Flow Range	± 14 L/sec
Dimensions of the Flow Tube	Ø30 ×165 mm
Dimensions of the Device	35×80×90 mm
Device Weight	200 grams
Communication	Connection to PC via USB or Bluetooth (optional)
Battery	Internal 3.7V Li-Ion battery (rechargeable via 5V 500mA mini USB charger)

Parameters Evaluated by SpiroSonic SMART

Standard pulmonary function parameters	**FVC Report:** FVC, PEF, ELA, FEV1, FEV3, FEV6, FEV1/FVC, FEF25, FEF50, FEF75, MMEF2550, MMEF2575, FET, PEFT, FIVC, FIV1, FIV1/FIVC, EV, PIF
*Parameters may vary subject to software version used.	**VC Report:** VC, IVC, IC, ERV, IRV, TV, TI, TE, VE, RR, TV/TI, TE/TI
	MVV Report: MVV
Insp/Expi Ratio	1:10 to 10:1

Voice interpretation module is available in the following languages:
U.S. English, Italian, German, Austrian, French, Spanish, Hungarian, Czech, Croatian, Korean, Chinese, Taiwanese

Optional Extras

- Thermal printer (USB or Bluetooth)
- Pulse Oximetry (SpO$_2$), 6MWT
- Bluetooth
- SpiroReporter for synchronizing patient database, reports and archiving
- USB weather station automatically sets temperature, air pressure and relative humidity

SpiroReporter is a digital platform to archive patient examinations and images, trend progress over time, analyse spirometry outputs and generate summary reports.