

# SpiroSonic SMART

Advanced ultrasonic digital  
spirometry in a portable,  
touch-screen solution



“For every  
breath  
you take.”



## Asthma, COPD, Occupational Lung Disease and Home Care

Asthma, COPD and occupational lung disease are common and increasing pulmonary conditions which can be effectively diagnosed and managed with simple and accurate spirometry. Digital ultrasonic spirometry provides a cost effective monitor for all pulmonary conditions.



## Accurate, Portable and Simple Digital Pulmonary Monitoring

Digital ultrasonic spirometry - with its low resistance flow dynamics - is ideal for use with small children and provides accurate monitoring even for the elderly and sick with poor lung function. The sealed flow tube design also allows for more effective cleaning and disinfection.



## The Global Standard of Pulmonary Care

Digital ultrasound is the most accurate method of measuring lung function, and the SpiroSonic SMART provides affordable lung function analysis to best diagnose and monitor pulmonary disease and the effectiveness of therapy.



## All-In-One Solution for Advanced Spirometry Measurements









SpiroSonic SMART measures and evaluates over 35 parameters - rivaling complex PC based systems. The reports can be directly printed from the device by using a compatible wireless or USB printer.

Uscom SpiroSonic SMART brings advanced ultrasonic digital spirometry in a portable, touchscreen spirometer. SpiroSonic SMART is specialized for the assessment of asthma, COPD, and screening for O.L.D.

# SpiroSonic SMART

Research quality ultrasonic spirometer with touchscreen

## FEATURES

-  Accurate digital multipath ultrasonic technology
-  Automatic internal calibration
-  Low flow resistance – suitable for children, elderly and sick patients
-  Diagnostic decision support system
-  Digital voice guided operation, interactive patient instructions
-  Simple and effective disinfection
-  Multilingual measurement tutorial
-  Direct report printing from the device

## ACCESSORIES

### Thermal printer

- Bluetooth 4.0 thermoprinter
- ✓ Direct printing from SMART



### Pulse Oxymetry (SpO<sub>2</sub>)

- Small and portable USB oximeter
- ✓ Integrates with SMART
  - ✓ High precision measuring circuit



### USB Weather Station

- Environmental condition sensor
- ✓ Automatically sets environmental conditions in SMART



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## SPECIFICATION

Volume Accuracy	± 2.5% or 50 mL whichever is greater
Flow Accuracy	± 2.5% or 50 mL/s whichever is greater
Resolution	3 mL/sec
Maximum Volume	± 20 L
Flow Range	± 14 L/sec
Sample Rate	100 Hz
Flow Tube Dimensions	Ø30 × 165 mm
Device Dimensions	37 × 80 × 92 mm
Device Weight	184 g
Display	QVGA 262k color touchscreen
Memory	4000+ measurements
Communication	Connection to PC via USB (mini Type B) or Bluetooth
Power Supply	Internal 3,7 V Li-Ion battery (rechargeable via 5V 500 mA mini USB charger)
Standard Pulmonary Function Parameters	FVC, PEF, ELA, FEV1, FEV3, FEV6, FEV1/FVC, FEF25, FEF50, FEF75, FEF2550, FEF2575, FEF5075, FET, PEFT, FIVC, FIV1, FIV1/FIVC, FIT, EV, ET, PIF, VC, IVC, IC, ERV, IRV, TV, TI, TE, VE, RR, TV/TI, TE/TI, MVV
Voice interpretation module is available in the following languages	U.S. English, Italian, German, Austrian, French, Spanish, Hungarian, Czech, Croatian, Korean, Chinese, Taiwanese

## SOFTWARE

### SpiroReporter

- Full-featured pulmonary diagnostics software for synchronizing patient database, reports and archiving
- ✓ All standard medical interfaces (HL7, GDT, BDT, XML)
  - ✓ Complete stress testing procedures



To learn more about the Uscom premium spirometers, please visit  
**spirosonic.com**

