For every breath you take.

Uscom

SpiroSonic Uscom

Digital ultrasonic spirometry

Ultrasonic Spirometry

Ultrasonic spirometers provide **non-invasive measurements** by using ultrasonic sensors to measure the transit time of ultrasonic pulses (known as time-of-flight measurement).

Several studies proved that they are **accurate, stable** and not too sensitive to environmental conditions such as temperature, humidity and pressure, these effects can easily be compensated by software.

SpiroSonic devices provide practice-leading ultrasonic spirometry solutions for clinicians and patients.

Spirometry Applications

- Identify disease (Asthma and COPD)
- Investigate SOB (short of breath)
- Monitor disease and therapy
- Occupational lung disease detection
- Pre-op assessment
- Lung function recovery (smoking / post COVID)

Growing Clinical Need

Poor air quality, more infections and occupational lung disease

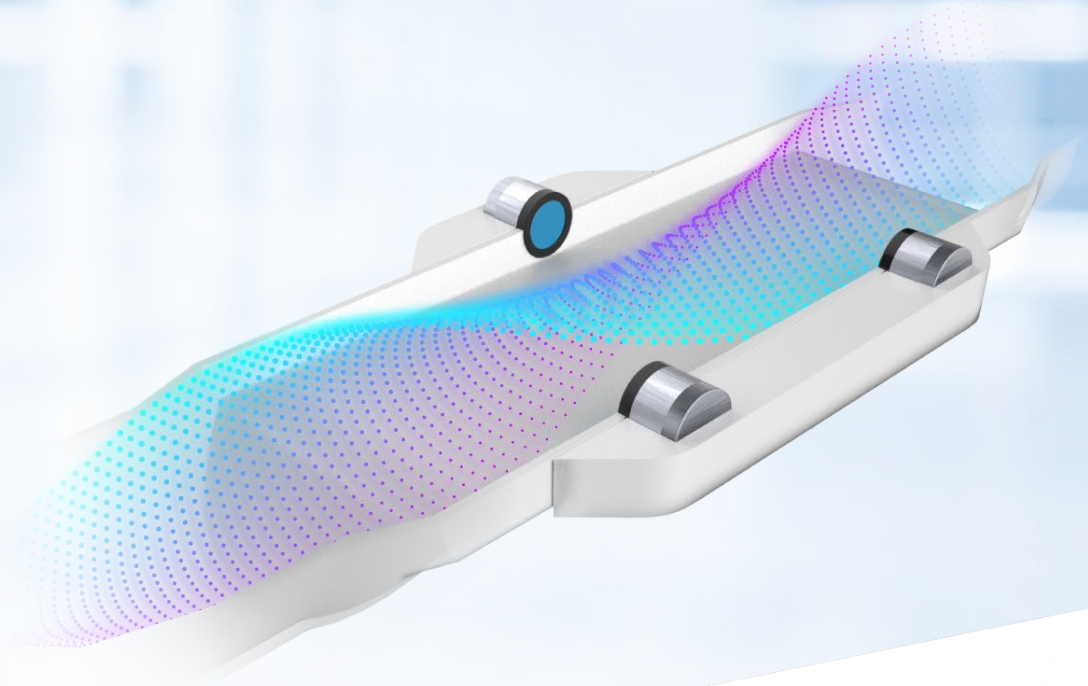
- **Asthma** and **COPD** are increasingly common as pollution increases.
- **Pulmonary fibrosis** and **cystic fibrosis**
- **Long COVID**

Improved methods to evaluate lung function and monitor therapy are important in children, adults and occupational screening

SpiroSonic - accurate digital ultrasonic pulmonary function testing

Uscom PureFlow technology

- Precision
- Low flow resistance
- Disinfectable flow path
- Automatic internal calibration
- Advanced Signal Processing
- Durable design



Uscom SpiroSonic spirometers

- **PureFlow Multi Path Ultrasonic Sensor technology**
- **No moving parts**
- **No mesh or turbines**
- **Auto-calibration**
- **Automated interpretation**
- **Easy to use**
- **Easy to clean**

Uscom SpiroSonic suite

SpiroSonic AIR

SpiroSonic FLO

SpiroSonic SMART

SpiroSonic AIR

Digital multi-path ultrasonic spirometer with wireless connectivity to your smartphone and computer

- **Smart connectivity –** Connects to most Android and iOS smartphones and tablets via Bluetooth 4.0 Low Energy
- **Long battery life –** Over 10 hours of usage with a single charge
- **Home care ready –** Intuitive usage with the SpiroSonic app

SpiroSonic AIR

- **Bluetooth 4.0** Low Energy
- Qi **wireless** charging
- **Durable,** yet modern design
- Easy to use **mobile application**: SpiroSonic app

SpiroReporter by Uscom

SpiroSonic App

SpiroSonic FLO

Ultrasonic spirometry partnered with SpiroReporter software for a complete PC solution

- **Easy to use** – Convenient operation with Uscom's SpiroReporter PC software
- **Easy to disinfect** – No moving parts, single continuous flow tube
- PC based SpiroReporter software - solution that provides **archiving, analysis, trend analysis, reporting, and much more.**

SpiroSonic FLO

- High fidelity **USB spirometer**
- Strong, **durable** construction
- Quick and easy pairing with **SpiroReporter** software
- **Automatic** calibration, **simple** disinfection
- **Interactive patient instructions –** feedback to assist the patient/doctor to optimize the spirometry maneuver

SpiroSonic SMART

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

- **All-In-One Solution –** Measures and evaluates over 35 parameters – rivaling complex PC based systems.
- **Spoken instructions** – Interactive guidance for better quality measurements – available in 12 languages.
- **Direct Printing –** Connect to printers via USB and print reports directly from the device.

SpiroSonic SMART

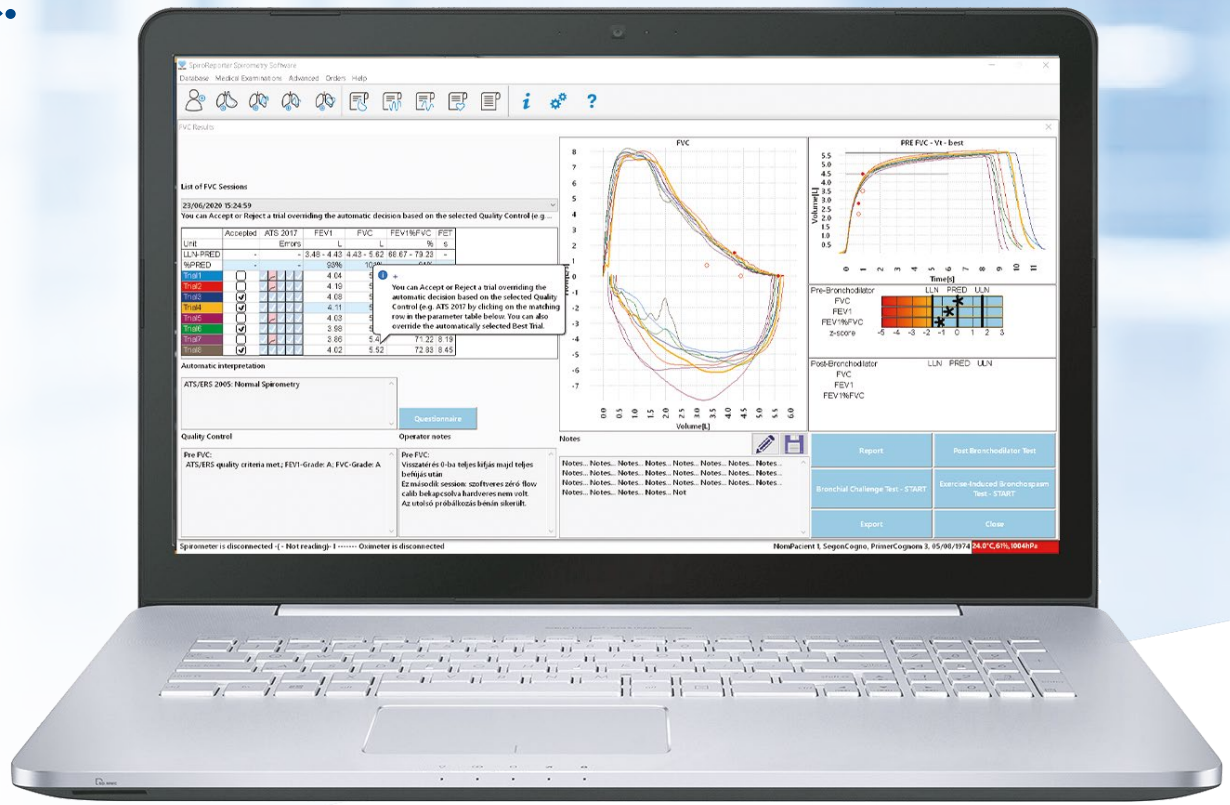
- Sensitive LCD **touch screen**
- **Internal memory** - capable of saving 4000+ measurements and / or patient data
- Interactive **assistance** and instant **feedback** to the patient in performing the measurement correctly

SpiroReporter

Full-featured pulmonary diagnostics for PC.

Reporting. Analysis. Digital Archiving.

- Proprietary software analytics
- Software guided examination
- Multiple predictive algorithms
- Automatic interpretation
- Pediatric incentive screens
- Diagnostic decision support system



Consumables

Viral bacterial filters

- Bacterial and viral filter even submicron size
- 99.99% cross-contamination efficiency
- Tested and efficient at high flow rates

Anatomically shaped mouthpiece

- Easy to use with Bacterial and Viral Filters
- Compatible with all SpiroSonic spirometers

Disinfectant

USB Weather Station

USB atmospheric calibration technology automatically sets environmental conditions in compatible spirometry software and devices

Calibrates for:

- Air pressure - mmHg
- Air Temperature - °C
- Relative Humidity - %

“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.

The Global Standard of Pulmonary Care

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

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.

SpiroSonic
Uscom

High fidelity ultrasonic spirometry products.

Addressing the challenges of asthma, COPD, Occupational Lung Disease and Long COVID.

Uscom – Devices the experts use.

SpiroReporter by Uscom

SpiroSonic App