



SPIROSCOUT

The first ultrasonic spirometer

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SpiroScout is powered by our patented **SharpFlow** ultrasonic technology that ensures precise lung function measurements. Each test uses direct digital sound pulse transit-time flow determination, guaranteeing consistent accuracy and reliability in every session.

FEATURES OF SPIROSCOUT:

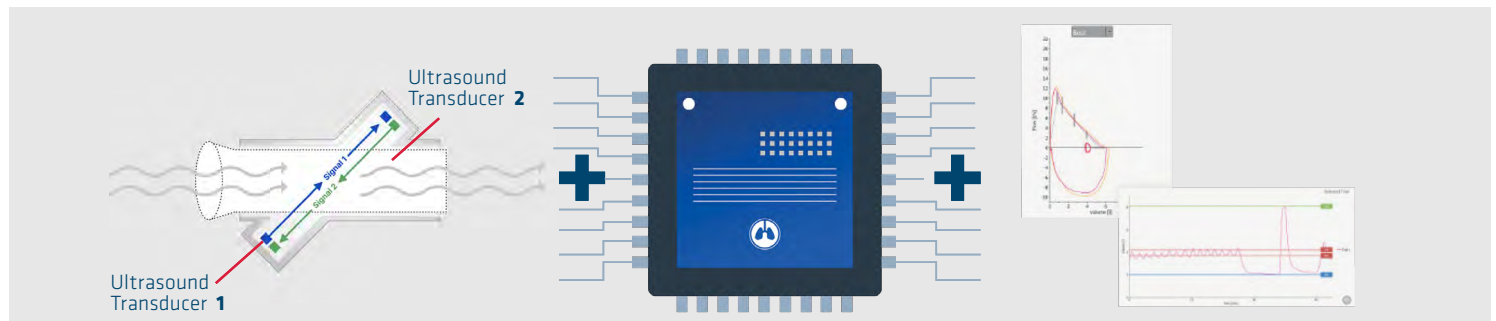
- **Ease of use.** Simply change the mouthpiece and get started.
- **Maintenance-free**, providing clean and high-precision measurements through SharpFlow (ultrasonic) technology.
- **Portable.** Perform measurements anywhere you need them—whether in the office, clinic, or field.
- **Calibration-free** ultrasound flow sensor. Our SharpFlow technology saves time and allows for more tests to be completed during a workday.
- **Real-time** exhaled gas determination. Thanks to our exclusive resistance-free ScoutTube mouthpiece.
- **Real-time ATP/BTPS** calculation. The correction factors are calculated during the measurement, and the environmental conditions are printed on the report.
- **ATS/ERS/OSHA compliant.**
- **Easy to clean**, no risk of cross-contamination.
- **EMR compatible.** **SpiroScout**, together with our **LFX** software, provides seamless bidirectional connectivity via HL7 or DICOM, enabling a paperless workflow and saving valuable time for clinical staff.

STANDARD MEASURING APPLICATIONS

FVC - Forced Vital Capacity
SVC - Slow Vital Capacity
MVV - Maximum Voluntary Ventilation



HOW SHARPFLOW WORKS



- 1** Two ultrasonic transducers, positioned diagonally inside the SpiroScout spirometer, alternately send and receive ultrasonic waves.
- 2** Ultrasonic wave transit times enable precise flow measurement, directly calculating flow and gas density. Changes in exhaled gas concentration and respiratory volume are determined, while external factors like gas properties, humidity, and temperature are accounted for, ensuring accurate results.
- 3** Our exclusive LFX software creates high-resolution graphs, enabling you to compare tests, track patient progress, and assess their response to treatment for more accurate decision-making.

SpiroScout seamlessly integrates with HIS and EMR systems, making easy to track and manage patient data. This integration can be useful to improve the accuracy and completeness of your HEDIS reporting.

The **LFX** Software is an intuitive and versatile Windows®-based platform that includes all the parameters necessary to perform comprehensive, reliable, and accurate pulmonary function tests in adult, geriatric, and pediatric patients. It unifies our pulmonary function tests, spirometry and oscillometry into a single platform, providing specific functionalities for each. This makes it easier to manage and access relevant data. **LFX** features a statistical module that allows you to compare different visits of the same patient, along with a biological control module to ensure test quality in compliance with **ATS/ERS** standards.

❖ QUALITY ASSURANCE

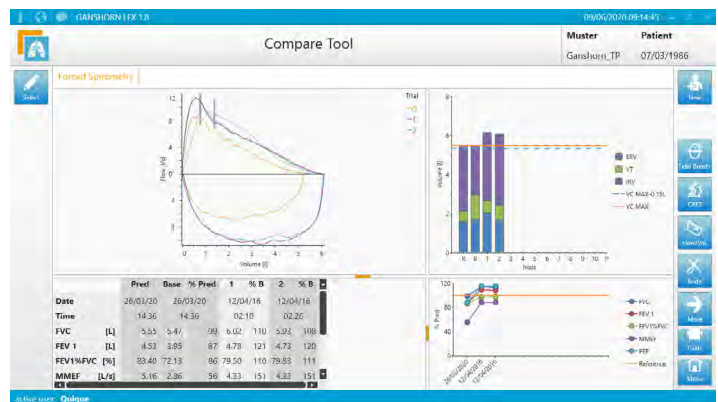
The **LFX** software incorporates inherent quality assurance monitoring in accordance with **ATS/ERS** guidelines, accessible during and after the measurement procedures.

❖ CONNECTIVITY

The **LFX** software's connectivity framework encompasses networking and EMR interface solutions. What sets **SCHILLER-GANSHORN's** connectivity solutions apart is that they were developed in-house, avoiding outsourcing. This empowers us to deliver tailored interface solutions that precisely align with the laboratory's requirements.

❖ CUSTOMIZABLE REPORTS

This platform comes standard with a large library of default reports. Additionally, the report generator application gives laboratories the ability to customize all their reports.



SCOUTTUBE MOUTHPIECE: MAXIMUM HYGIENE

ScoutTube is our mouthpiece designed specifically for our SharpFlow (ultrasonic) technology. This disposable tube ensures high hygiene standards during spirometry, preventing cross-contamination by keeping the sample separate from the sensor. It provides a secure seal around the lips of patients of all ages, from children to adults, regardless of their physical fitness level.

- ❖ Cost-effective. No ongoing costs or need for calibration equipment.
- ❖ Its oval design fits all mouth shapes and sizes.
- ❖ It does not generate resistance during the maneuver.
- ❖ It features a membrane that filters bacteria and prevents cross-contamination.
- ❖ The **ScoutTube** is environmentally friendly: ecological, disposable, and 100% biodegradable.



SpiroScout offers the most accurate, reliable, and user-friendly spirometry solution, ensuring optimal patient care and streamlined testing every time.