# spiroclinic® | Compact

# Ultrasonic Spirometry Platform

FVC - FVL - SVC - MVV - Inspiratory/Expiratory Curves
Pre/Post Bronchodilator comparison

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# Ultrasonic Spirometer

CE-certified SpiroClinic® Compact raises the bar for accuracy, reliability, and durability for all spirometers, compacting the benefits of ultrasonic flow measurement technology into the palm of your hand.

SpiroClinic® Compact is an integrated solution that has simplified spirometry for patients, patient management for doctors, and clinical studies for researchers.

## Next-level Spirometry

The ultra-portable SpiroClinic® Compact is digitalizing hospitals, health clinics, and research centers with patent-pending, ultrasonic sensor technology.

Ultrasonic Flow Measurement

Calibration-Free Technology

ATS & ERS Compliant

## Designed for Patients and Doctors

The intuitive SpiroClinic® Compact Application helps patients perfect their spirometry technique while the SpiroClinic® Compact Dashboard simplifies patient data tracking for healthcare professionals.

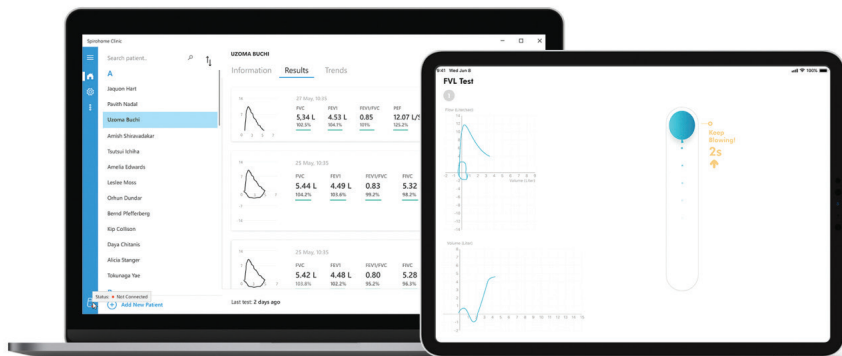Intuitive App and Dashboard

Connects via Bluetooth®

Patient Management System

# SpiroClinic® Compact Application

The SpiroClinic® Compact Application simplifies spirometry for both patients and doctors with real-time feedback, error code detection, and session grading. An unlimited number of patients can be registered to one SpiroClinic® Compact device. An extensive range of predicted values, displayed parameters, and display options tailors tests to users and clinics.

SpiroClinic® Compact is eliminating barriers to remote patient engagement and changing spirometry in hospitals, clinics, and research laboratories all around the world.

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## Windows, iOS and Android Applications

The SpiroClinic® Compact Application has been implemented for both Windows, iOS and Android devices. API / SDK integration options also allow custom solutions for clinics.
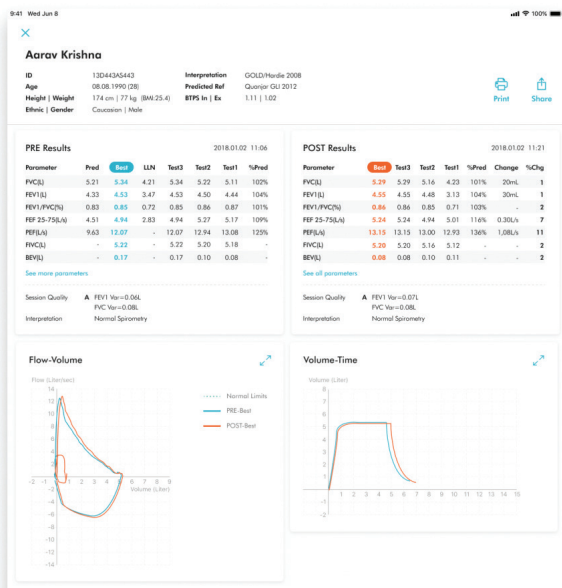
Real-Time testing feedback

Unlimited number of patient records

Spirohome Personal integration



## More Data, Better Insight

Equipped with an extensive range of measured parameters and graphical data, healthcare professionals can make accurate diagnosis and comprehensively evaluate treatment efficacy.

Error Code Detection

Session Grading

GDPR Compliant

# SpiroWay Disposable Mouthpiece

SpiroWay® Disposable mouthpieces are single-use components, cleverly designed to be unwrapped and inserted into the device without direct skin contact.

More than just a mouthpiece, the SpiroWay® Disposable lines the entire gas pathway, ensuring that all gas-contacting surfaces are disposed of immediately after use. Further protection can be achieved simply by wiping down the device after each use.

## Smart Packaging

Protective packaging with an innovative tear line design makes sure no direct skin contact with the mouthpiece is made before use by the patient.

⊘ Single use

▱ Individually-Packed

x50 Convenient dispenser boxes of 50



## Smart Disposal

Use the skirting on the mouthpiece during disposal to avoid direct contact with the patient mucosa-contacting surfaces of the mouthpiece.

🏠 No special storage conditions

⊘ Covers the entire gas pathway

♲ Medical grade, recyclable materials

| | |
|---|---|
| Medical Device Class | Class IIA |
| Sensor Technology | Ultrasonic Flow Measurement |
| Flow Range | 0-14 L/s |
| Maximum Volume Measured | 10 L |
| Volume Accuracy | 2.00 % or 50 mL, whichever is greater |
| Dynamic Resistance at 14 L/s | 86 Pa*s/L |
| Quality / Medical Devices / Electrical Safety Standard | ISO 13485, ISO 26782, ISO 10993-1, ISO 14971, ISO 15223-1, EN 60601-1, EN 60601-1-2, EN 60601-1-6, EN 60601-1-11, MDD 93/42/EEC |
| Test Modes | FVC, Tidal FVC, FVL, Tidal FVL, SVC, MVV |
| Parameters | FVC, FEV0.75, FEV1, FEV3, FEV6, FEV0.75/FVC, FEV1/FVC, FEV3/FVC, FEV6/FVC, PEF, MMEF, FEF25, FEF25-75, MET25-75, FEV0.75/FEV6, FEV1/FEV6, FEEF50/FVC, MMEF/FVC, FET, BEV, FIF1, FIVC, PIF, FIF25-75, FIV1/FIVC, R50 (FEF50/FIF50), VC, VCin, VCex, ERV, IRV, IC, Rf, VT, MVV, MVV6, MVVtime |
| Power Supply | 2 x 1.5V AAA Alkaline batteries |
| Dimensions | 110 x 63 x 41 mm |
| Weight (With batteries) | 90 g |
| Wireless Connection | BLE 4.2 |
| Use Environment | Office, Clinic, Occupational Health, Ambulance, Primary Care, Hospital |
| Mouthpiece | Spiroway Disposable Mouthpiece |
| Predicted Values | Quanjer 2012 (GLI), NHANES III 1999 (Hankinson), ERS 1993 (ECS, EGKS, Quanjer), Crapo 1981, Knudson 1976 |
| Interface Device | iOS tablets, Android tablets, PC, Web dashboard |
| Calibration | No calibration required over its lifetime (calibration syringe adaptors available) |
| Pre - Post Test | Yes |
| Data Storage | Cloud system / Unlimited Patient Records |
| ATS Error Codes | Hesitation, Plateau, Cough, Early End, Late Peak Flow |
| Lower Limits of Normal (LLN) & Zscore Implementation | Yes |
| SDK / API Integration | Yes |
| Orderable Accessories | SpiroWay® Disposable Mouthpiece 50 pack (REF: 04000) SpiroWay® Calibration Adapter (REF: 06001 for 30mm. 06002 for 35mm) |

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