



GO SPIRO[®]

Home Spirometer

GoSpiro[®] — The first spirometer specifically designed for connected health applications

Provides diagnostic quality test results, delivering spirometry data that is reimbursable and making the results acceptable for clinical trials conducted at home.

- Real-time flow and volume streaming data for on-screen visualization
- Full Flow-Volume loops with both inspiratory and expiratory data analysis
- Automated Slow Vital Capacity and subdivisions protocol
- Volume based measurement provides for long term calibration stability
- Meets ATS/ERS/ISO waveform testing requirements
- Built-in quality control with measured and calculated error indices
- Bluetooth[®] enabled wireless communication
- Interfaces to computers, tablets, and smartphones and other data collection hubs
- Meets stringent ISO and FDA Home-Use standards

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All measurements and calculations are performed inside the *GoSpiro*® so no matter what computer, tablet, smartphone, or data hub collects the data, no new FDA submissions are required for using all of its capabilities.

Volume is measured at BTPS conditions, which avoids temperature and humidity correction errors. Measurements are validated to altitudes of >8,000 feet, assuring accurate data from patients living at higher altitudes.

Built-in quality control with calculated error indices assures lab-quality results. The *GoSpiro* collects and transmits Time-to-Peak Flow, Back-Extrapolated Volume, Cough Detection, Total Expiratory Time, and End-Expiratory Flow Detected.

“Lisa” the avatar-based, real-time patient coaching and test review is available on the *GoHome*™ Platform.

Specifications

Transducer Type	Bi-directional high sensitivity vertical turbine
Volume Accuracy	± 3% of reading, or 0.05 liters (whichever is greater)
Maximum Volume	8 liters maximum
Maximum Flow	14 liters per second
Flow Sensitivity	Better than 0.025l/s
Power Supply	Rechargeable Lithium battery
Battery Life	> 70,000 measurements (with recharging)
Dimensions (<i>GoSpiro</i>)	80mm (W) x 100mm (D) x 120mm (H)
Dimensions (Charging Station)	50mm (W) x 100mm (D) x 50mm (H)
Weight (including Battery)	300g
Operating Conditions	17°C to 35°C, 30%RH to 75%RH, non-condensing
Transport & Storage Conditions	20°C to 70°C, 15% to 95% RH, non-condensing
Warranty	2 years

Measurements

Forced Vital Capacity (FVC)	
FVC	FEV1
FEV3	FEV6
FEV0.75	PEF
FEF25 (MEF75)	FEF50 (MEF50)
FEF75 (MEF25)	FEF25-75 (MMEF)
FIV1	FIVC
PIF	FIF25 (MIF75)
FIF50 (MIF50)	FIF75 (MIF25)
MET25-75	FEV0.75/FVC
FEV1/FVC (FER)	FEV3/FVC
FEV0.75/FEV6	FEV1/FEV6
FEF50/FVC	FEF25-75/FVC
FIV1/FIVC (FIR)	R50 (FEF50/FIF50)
Slow Vital Capacity (SVC)	
SVC	RR
IC	Ti
ERV	Te
IRV	Ti/Te
VT	Vt/Ti

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