

ERT SPIROSPHERE

Take your spirometry to the next level with our smart, portable and affordable spirometer

SPIROMETRY ADVANCED

Smart, portable and affordable, the ERT SpiroSphere[®] is the latest spirometry system from ERT for the measurement, recording and assessment of accurate lung function parameters (FEV1, FVC, PEF, FEF25-75, VC, IC, ERV and others). Specially designed to simplify routine use in healthcare and clinical trials, this innovative system simplifies most challenges while improving pulmonary function testing (PFT). The compact, portable spirometer is ideal for use by a physician or healthcare professional, and provides maximum efficiency based on extensive feedback from investigative sites.

SpiroSphere combines a high-quality, pre-calibrated, wireless pneumotach sensor with the latest smart technology. A high-resolution, color touchscreen display and streamlined clinical workflow keeps the focus on the patient and data quality. The built-in, reliable biometric fingerprint scanner allows the user system access after successfully completing proficiency training and testing. Intuitive software and unique features optimize and automate study-specific workflows to improve protocol compliance and acceptability. Data is synchronized via Wi-Fi, Ethernet and 3G mobile networks with the ERT EXPERT[®] platform for central data management, quality analysis, business intelligence and portal access.

PUT SPIROSPHERE TO WORK FOR YOU

Coach, collect and assess

Proper coaching is the key to precise, repeatable data, as patients often have challenges performing maneuvers. SpiroSphere is highly compact and truly portable with a built-in rechargeable battery. A high-resolution touch screen and a graphical interface optimized for maximum user experience make it easy to enter or select patient demographics and perform tests. Smart icons deliver quality feedback in real time so patients can be guided to proper maneuvers adhering to the latest American Thoracic Society (ATS) and European Respiratory Society (ERS) standards.

Connect wirelessly

Always connected, SpiroSphere supports Wi-Fi, Ethernet and 3G mobile networks for mobility and seamless data transmission. After a patient is evaluated, reports can be emailed to other physicians, printed through any compatible printer, backed up locally to a USB stick and transmitted to the EXPERT platform. SpiroSphere's high-quality, wireless pneumotach sensor gives users and patients full freedom of movement.

Never calibrate again

Why waste time on calibration? SpiroSphere comes with pre-calibrated pneumotach tubes, simplifying daily procedures while capturing highly-accurate data. Each pneumotach tube comes with an attached mouthpiece suitable for all ages. SpiroSphere supports the current ATS/ERS guidance by providing calibration checks.

Clean and go

Hygiene is critical for safety, so SpiroSphere relies on a disposable, single-patient use pneumotach tube. Simply clean the handle and replace the tube, and SpiroSphere is ready for the next patient. No additional bacterial filters are needed.



ERT SPIROSPHERE MEASURES, RECORDS AND ASSESSES ACCURATE LUNG FUNCTION PARAMETERS

**SINGLE-PATIENT USE,
DISPOSABLE
PNEUMOTACH
TUBE**



**BLUETOOTH-CONNECTED
SENSOR**



SPIROSPHERE FEATURES

- > Single-patient use, disposable pneumotach tube
- > Bluetooth®-connected sensor
- > Supplied with carrying case
- > Back up local data via USB stick
- > Rechargeable battery in main unit and sensor unit
- > Power supply charges main unit and wirelessly charges sensor unit
- > Wi-Fi, Ethernet and 3G mobile network data transmission
- > Connects to any compatible printer via USB

TECHNICAL SPECIFICATIONS

| | |
|----------------------------|---|
| Flow measurement | High-quality pneumotach |
| Flow range (PEF) | 0.1 to 16 L/s |
| Flow accuracy (PEF) | 0.1 to 16 L/s: +/- 10% of reading or +/- 0.3 L/s |
| Flow resolution | < 5 mL/s |
| Resistance | Max 135 Pa/(L/s) at 14 L/s |
| Instantaneous flow | 0.1 – 14 L/s: +/- 5% or 0.2 L/s |
| Volume measurement | Digital integration |
| Volume range | 0.1 to 8 L |
| Volume accuracy | 0.1 to 8L +/- 3% of reading or +/- 0.05 L |
| Volume resolution | 1 mL |
| Display | High-resolution LCD touchscreen, backlit 16.2 cm x 12.2 cm, 1024 x 800 pixels |
| L x W x H | 31.5 cm x 19.5 cm x 7.5 cm |
| Power supply input | 100-240VAC, 50/60Hz, 1.5A |

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QUALITY AND SAFETY

ERT operates a Quality Management System according to EN ISO 13485 and 21 CFR Part 820. The device complies to the applicable standards and regulations. The device is CE-marked (according to Medical Device Directive) and US FDA cleared (510(k)).



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