Wireless Spirometer

"Effective, simple lung screening in any environment"

Spirometry and Oximetry in one single solution, ready to use on PC and mobile

COSMED
The Metabolic Company

- **Complete spirometry testing (FVC, SVC, MVV, PRE-POST)**
- **SpO2 and HR measurements**
- **Bluetooth and USB connection**
- **Dual-platform interface (PC & mobile)**
- **High-sensitive turbine flowmeter**
- **Li-ion rechargeable battery**
- **Incentivation graphics for spirometry**
- **Automatic test interpretation**
- **Compliance with the latest ATS/ERS standards**
- **Full networking and safe data management with Microsoft® SQL Database on OMNIA**

Q is a wireless spirometer with an **embedded pulse oximeter**, designed for versatile use across various clinical settings. Available for **PC or mobile**, it provides high-quality respiratory diagnostics for a wide range of healthcare professionals, from general practitioners to specialists

Through OMNIA software, Q connects to any PC via **Bluetooth Low Energy** or **USB-C**, enabling reliable lung function assessments in just a few simple steps. With the App, the spirometer can be used on mobile devices via Bluetooth, offering flexibility and convenience for examinations on the go.

Compact, lightweight, and easy to transport, Q features a long-lasting **battery**, that offers over 15 hours of continuous use and charges conveniently via USB-C. Its practical **turn-and-lock** mechanism allows for a quick attachment of the reusable turbine, which only requires monthly reprocessing and a rapid disinfection procedure when paired with COSMED's antiviral and antibacterial filters.

The turbine's optimized design minimizes resistance to ensure the highest accuracy when used with filters. Able to detect very low flows, it delivers reliable and consistent measurements also for COPD patients. The built-in **weather station** for BTPS adjustments further ensures accurate and precise readings.

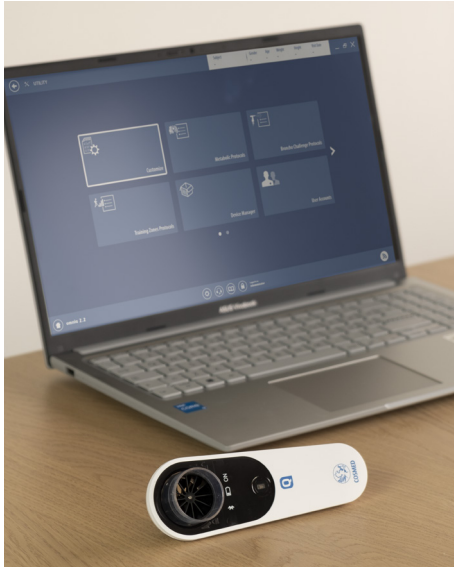
Testing Capabilities and Features

SPIROMETRY

- Complete spirometry testing (FVC pre/post, SVC pre/post, MVV, Broncho-Challange)
- Guided procedure for flowmeter verification and calibration
- Incentive animations with definition of effort grade on both volume and flow (%FVC, %PEF).

PULSE OXIMETRY

- SpO2 spot checks
- HR spot measurements
- Real-time plethysmographic curve to ensure measurement quality
- Option to enter supplemental O2 info to perform Titration tests



Q connects to any PC via BLE or USB-C

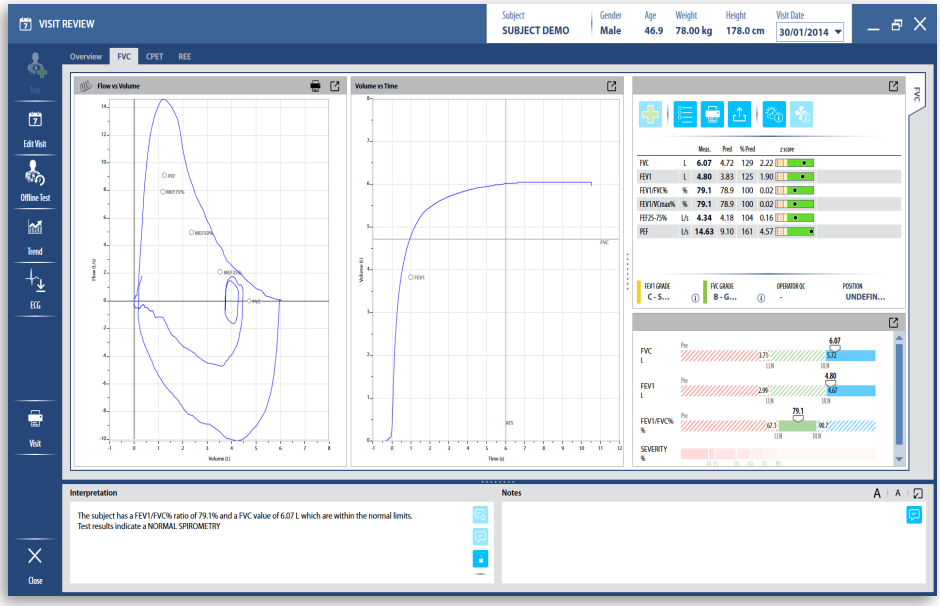
Immediate and reliable SpO2 spot assessments

OMNIA Software

OMNIA is the software platform that supports healthcare professionals in all aspects of their clinical routine. Featuring a straightforward interface, OMNIA simplifies tasks, optimizes workflows and provides accurate real-time insights while ensuring data security. Tailored for diverse healthcare environments and scalable to any medical setting, OMNIA enhances efficiency and accuracy, enabling professionals to prioritize patient care.

EFFORTLESS NAVIGATION

OMNIA's natural interaction design ensures a minimal learning curve for users. Its easy-to-follow workflows streamline the testing process, reducing both time to results and the likelihood of human error. Additionally, **customizable layouts** and settings cater to the diverse needs of different users, providing flexibility in operation.



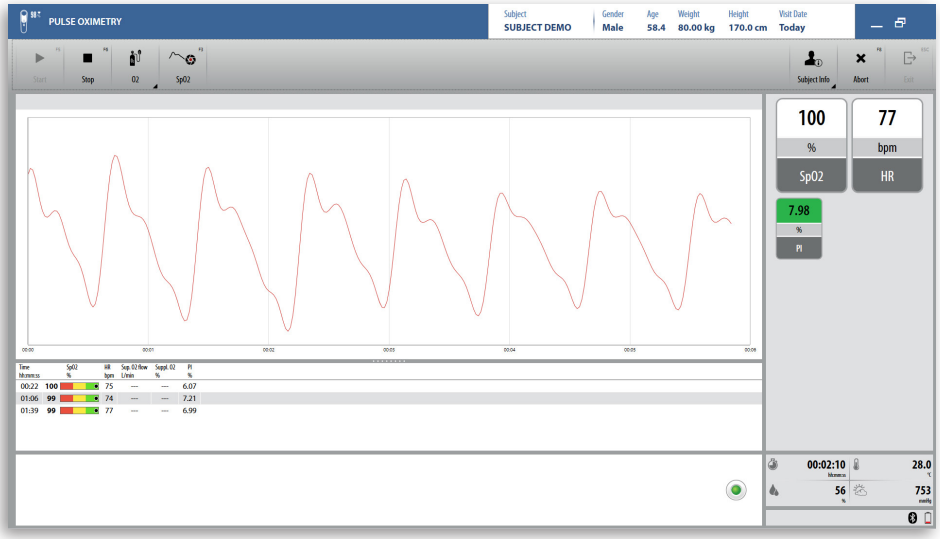
User-friendly and straightforward software interface providing quick access to features and commands.

RELIABLE TEST RESULTS

Built-in **guidance tools** for calibration, quality control, and testing procedures guarantee reliable test outputs. Coaching tools assist with patient maneuvers, while automated **quality control feedback** guarantees consistent accuracy. Real-time monitoring of key parameters further improves test reliability.

ASSISTED INTERPRETATION

Assisted **interpretation tools** enhance the diagnostic process by providing automatic interpretation, along with visual aids like graphs, z-scores, and gauges. Numerous manual editing tools allow for personalized input, while **over 60 predictive sets** are available for diverse populations, delivering accurate, context-specific assessments.



Pulse oximetry spot check real time interface with plethysmographic curve and Perfusion Index monitoring.

COMPREHENSIVE CUSTOM REPORTS

Users can configure single, multi-test, and trend **printout reports**, selecting specific graphs, parameters, and interpretation tools to tailor the output. The reports present clear and detailed data in an easy-to-read format, providing actionable insights with minimal effort.

SECURE, INTEROPERABLE, SCALABLE

Fully compliant with **GDPR** and **HIPAA**, OMNIA provides a secure environment for data storage, safe **network** sharing, and seamless integration with HIS/EMR systems via **HL7**, **DICOM**, and **GDT**. Supporting the full range of COSMED products for lung function, metabolic, and body composition assessments, it offers a modular and comprehensive solution that can be easily incorporated into existing clinical workflows.

App

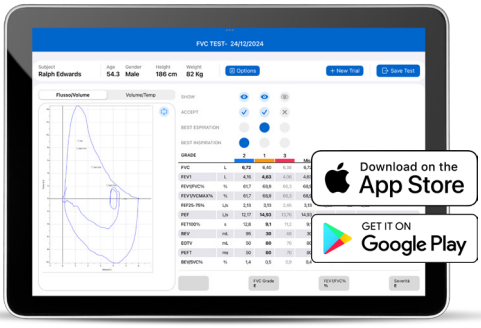
PREVIEW - Upcoming Feature

Compatible with both iOS and Android devices, the app provides mobile access to a subset of OMNIA features, offering essential tools for accurate diagnostics on the go.

With its clear, responsive interface, users can effortlessly manage patient data and visits, review trends over time, calibrate and verify the turbine, conduct spirometry and pulse oximetry tests, and edit results, all while enjoying the flexibility and convenience of a mobile solution.

By enabling real-time, reliable assessments from mobile devices, the app supports healthcare professionals in making informed decisions wherever they are.

Its portability and accessibility makes it an ideal solution for fast-paced environments that demand high-quality diagnostics without compromise.



The App's design prioritizes user experience, ensuring that each function is intuitive and quickly accessible.

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COSMED Q is a medical device.

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