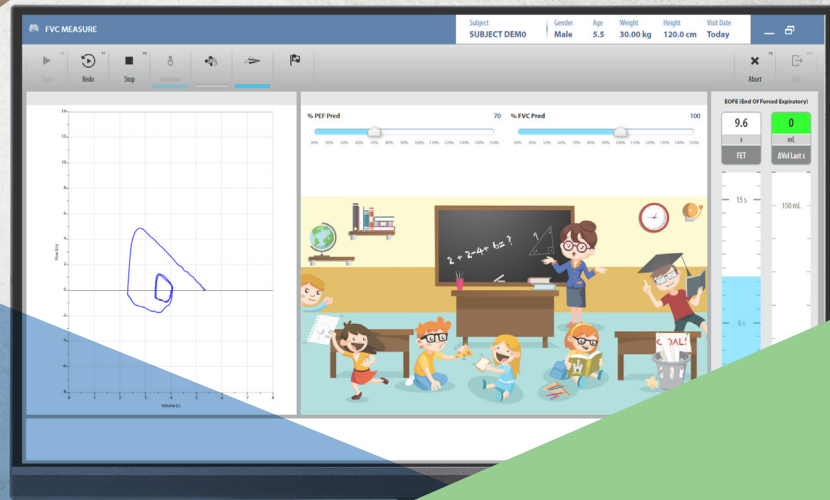




PC-Based Spirometer

*"Effective, simple
lung screening in
any environment"*



Spirometry and Oximetry in one single
solution powered by OMNIA: The Industry's
Leading PC Software Solution

PREVIEW

Upcoming product, available for pre-sale orders only.



COSMED
The Metabolic Company

- » Full spirometry testing
- » SpO2 and HR measurements
- » Bluetooth and USB connection
- » High-sensitive turbine flowmeter
- » Long-lasting Li-ion rechargeable battery (>15 hours)
- » Incentivation graphics for spirometry
- » Automatic test interpretation
- » Full Networking and multi-language environment
- » Compliance with the latest ATS/ERS standards
- » Safe data management with Microsoft® SQL Database



Q is a wireless, PC-based spirometer with **embedded pulse oximeter** designed for versatile use across diverse clinical settings. 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.

The wireless setup reduces contamination risks by allowing safe operator distance, while the long-lasting **battery** offers over 15 hours of continuous use and charges conveniently via USB-C.

Compact, lightweight, and easy to transport, Q features a practical **turn-and-lock** mechanism for quick turbine attachment and a built-in **weather station** for precise BTPS adjustments.

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 for COPD patients. Paired with COSMED's antiviral and antibacterial filters, the reusable turbine only requires **monthly reprocessing**, with a quick and simple disinfection procedure.

Testing Capabilities and Features

SPIROMETRY

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

PULSE OXIMETRY

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



OMNIA Software

Q is powered by OMNIA, 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.

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

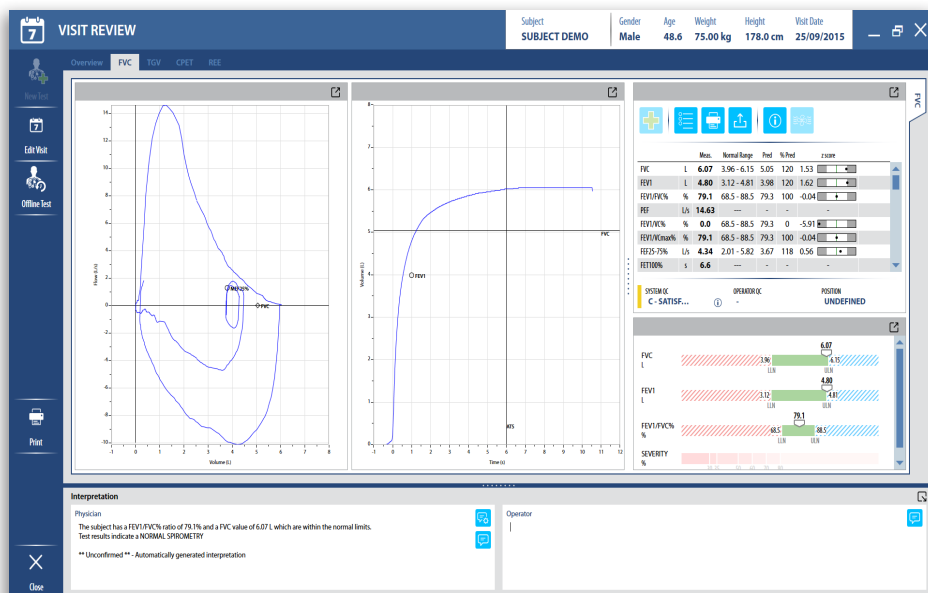
Assisted **interpretation tools** enhance the diagnostic process by providing automatic interpretation, along with visual aids like graphs, z-scores, and gauges. Numerous manual editing tools allow for personalized input, while **over 60 predictive sets** are available for diverse populations, delivering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

COMPREHENSIVE CUSTOM REPORTS

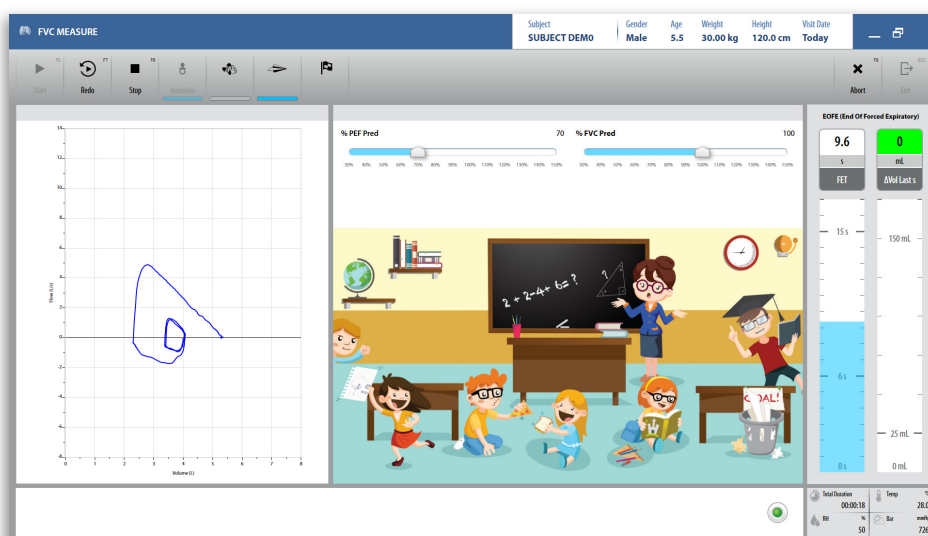
Users can configure single, multi-test, and trend **printout reports**, selecting specific graphs, parameters, and interpretation tools to tailor the output. The reports present clear and detailed data in an easy-to-read format, providing actionable insights with minimal effort.

SECURE DATA MANAGEMENT

OMNIA complies with **GDPR** and **HIPAA** privacy regulations, ensuring patient information is protected through data encryption and strict access controls. Preventive measures and **backup reminders** further safeguard sensitive data, minimizing the risk of data loss.



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



Pediatric incentivization tool for spirometry tests with selectable effort grade (%PEF, %FVC).

SMOOTH INTEROPERABILITY

OMNIA's network configuration simplifies data sharing across institutions, enabling efficient centralized data management and enhancing workflow productivity. Integration with HIS/EMR systems is supported through **HL7**, **DICOM**, and **GDТ**, allowing smooth data exchange and easy incorporation into existing clinical processes.

CROSS-DEVICE ECOSYSTEM

OMNIA supports the **full range of COSMED products**, including equipment for lung function evaluation, metabolic testing, and body composition assessment. Its modular architecture allows for the easy addition of necessary modules, providing a single solution for comprehensive health assessments.



Immediate and reliable SpO2 spot assessments

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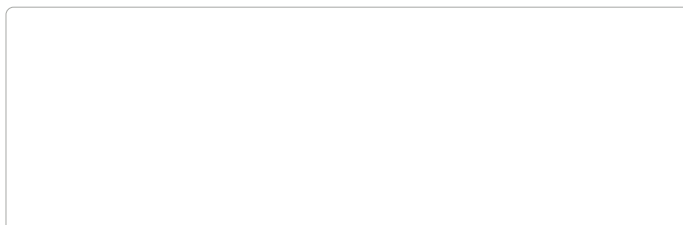
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To know more:



COSMED Q is a medical device.

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