Q-12
12-Lead ECG

"Cutting-edge ECG technology, when every heartbeat counts"



Full-featured 12-Lead ECG solution for Effortless Diagnostic Accuracy

PREVIEW

Upcoming product, available for pre-sale orders only.

COSMED
The Metabolic Company

- **Engineered for resting and stress ECG**
- **Fully integrable with COSMED systems for gas exchange measurements.**
- **Flexible Bluetooth and USB connectivity**
- **Rechargeable battery for up to 10 hours of continuous use**
- **High-quality ECG signal**
- **Lightweight and comfortable design**
- **Intuitive software interface for effortless operation**
- **Refined data processing through advanced filtering**
- **Complete integration with OMNIA ecosystem**



Q-12 is a portable, PC-based 12-lead ECG solution designed to deliver high-quality cardiac diagnostics while maximizing ease of use and patient comfort.

Powered by OMNIA software, it performs **both resting and stress ECG** testing and fully supports integrated Cardio Pulmonary Exercise Testing **(CPET)** when paired with COSMED systems for gas exchange measurements.

Designed for flexibility, Q-12 features a modular configuration that allows easy integration of complementary items and add-ons tailored to specific tests and patient needs. It is compatible with different cable sets for resting and stress tests, a D-Sub adapter for suction systems, and an HR TTL Trigger Cable, making it adaptable for diverse applications.

Its lightweight and compact design makes Q-12 highly portable, allowing the device to be easily moved between workstations while securely stored in its dedicated carrying bag.

Q-12's smooth surfaces and durable materials facilitate quick, thorough sanitization, and disposable, recyclable hygiene bags are available to maintain rigorous sanitation standards and speed up test preparation.

Enhancing clinical flexibility, Q-12 supports both **wireless (Bluetooth)** and **wired (USB)** connectivity, ensuring reliable data transfer to any PC, regardless of workstation setup. With a long-lasting **battery** that powers **up to 10 hours** of continuous use, Q-12 is built for reliable performance throughout the day.

Whether using wireless or wired connections, Q-12 guarantees **superior signal quality** and rapid data transmission to OMNIA software.

Each ECG reading is clear and precise, providing accurate, easy-to-interpret results.

Driven by OMNIA's straightforward usability, extensive customization options, and advanced processing power, Q-12 delivers the accuracy and clinical adaptability needed by healthcare professionals who seek a reliable, intuitive, and high-quality solution for cardiac diagnostics in diverse settings.



OMNIA ECG Features

OMNIA's thoughtfully designed interface enhances both insights and user interactions during ECG and CPET tests, streamlining interpretation and reporting workflows. Its customizable layout and user-selectable settings provide a tailored experience for every clinical scenario.

FINE-TUNED DATA ACQUISITION

OMNIA reduces interference from baseline drift, muscle activity, and powerline noise with **advanced filtering**, ensuring clear and reliable ECG signals even in demanding environments. The **real-time J+ edit** function enables precise J-point adjustments for accurate ST segment interpretation, while the **pacemaker detection** guarantees correct interpretetion of ECG signals in patients with implanted devices. Additionally, real-time signal quality feedback alerts clinicians to any lead-related issues, enabling quick corrective actions to maintain data accuracy.

IN-DEPTH DATA INSIGHTS

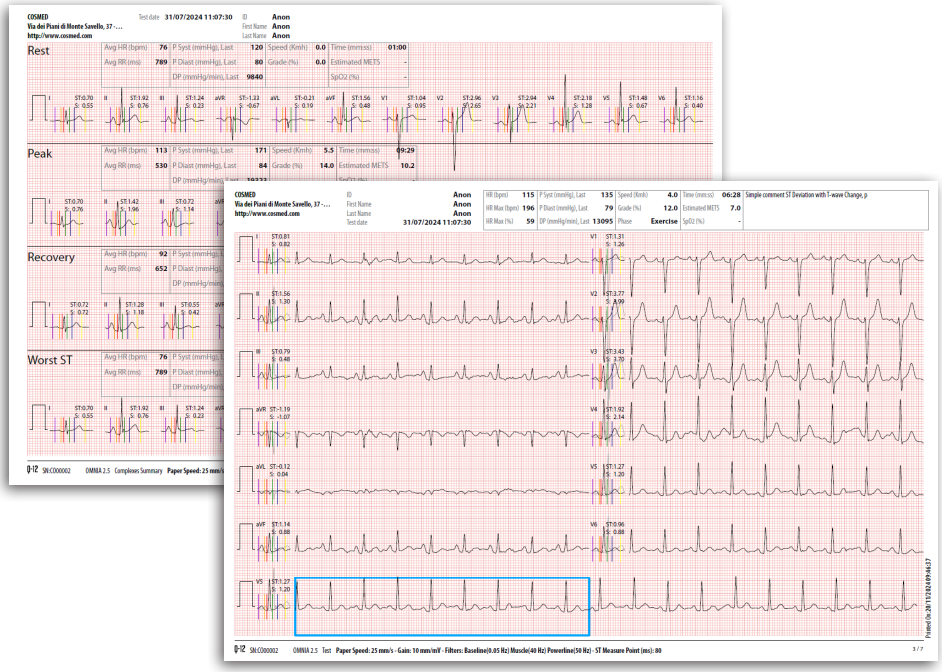
During ECG testing, OMNIA offers a configurable real-time display, enabling clinicians to view all 12 leads simultaneously or sequentially. For deeper insights, a **full disclosure** strip can be paused and navigated in real-time. The interface features widgets that allow users to view **average complexes**, zoom in on specific complexes, and track trends or ST segment values. The real-time printing function captures critical moments, providing a 10-second snapshot for immediate review. For resting tests, unlimited consecutive captures can be taken throughout the same test. Additionally, a tabular view of measured values further enhances the insight gained from the test results.

EXTENSIVE INTERFACING CAPABILITIES

Through OMNIA, Q-12 integrates effortlessly not only with COSMED solutions for **CPET** but also with a broad range of external devices that provide additional physiological parameters, such as Suntech Tango® **blood pressure** monitor, Nonin® **pulse oximeter** for SpO2 reading, PhysioFlow® **cardiac output** monitor, and blood gas analyzers. OMNIA also interfaces and manages a wide array of **ergometers**, providing full control during stress test. Clinicians can choose from **default protocols,** create **custom protocols** tailored to specific clinical scenarios, or make manual adjustments in real-time to adapt to patient needs.



Customizable real-time layout with configurable ECG view, widgets and numerical parameters.



Easy-to-read, detailed ECG report with clear overlays highlighting key events for quick, accurate interpretation.

ADVANCED ON-SCREEN INTERPRETATION

OMNIA offers a comprehensive set of review and editing tools for full on-screen reviews. The adaptive measuring tool allows clinicians to conveniently measure wave intervals and amplitudes directly on-screen, while complex overlays highlight critical intervals and key points for quicker analysis, as recommended by AHA guidelines. The interpretation process is streamlined with automated features such as **arrhythmia detection** and classification, ST segment analysis, and **QT interval correction** based on user-selectable formulas—Bazett, Fridericia, Framingham, or Hodges. Clinicians can add **custom events** by entering notes manually or selecting from OMNIA's extensive library of predefined events. Pre-set text modules and tags also accelerate report generation without compromising quality.

SMOOTH DATA SHARING

OMNIA 's flexible data export options, including PDF, GDT, and XML formats, facilitate report sharing and integration with other systems. This capability is further supported by **OMNIA Network** configuration, featuring a centralized database accessible by multiple users to streamline clinical workflows and eliminate redundant processes. Additionally, integration with HIS/EMR systems using **HL7**, **DICOM**, and **GDT** standards ensures efficient data exchange, and easy incorporation into existing clinical operations to enhance both workflow efficiency and diagnostic accuracy.

ITALY - Headquarters

COSMED Srl
Rome
+39 06 931-5492
info@cosmed.com

ITALY

COSMED Srl
Milan
+39 02 99765-920
milano@cosmed.com

GERMANY

COSMED Deutschland GmbH
Schweinfurt
+49 (0)9721 298 28 30
DE@cosmed.com

FRANCE

COSMED France SASU
Brignais
+33 (0)4 478628053
FR@cosmed.com

THE NETHERLANDS

COSMED Benelux BV
Nieuwegein
+31 (0) 88 10 50 500
BNL@cosmed.com

DENMARK

COSMED Nordic ApS
Odense
+45 6595 9100
DK@cosmed.com

SWITZERLAND

COSMED Switzerland GmbH
Fehraltorf
+41 (0)43 50 869 83
CH@cosmed.com

USA

COSMED USA, Inc.
Concord, Chicago
+1 800 4263763 Toll Free
USA@cosmed.com

AUSTRALIA

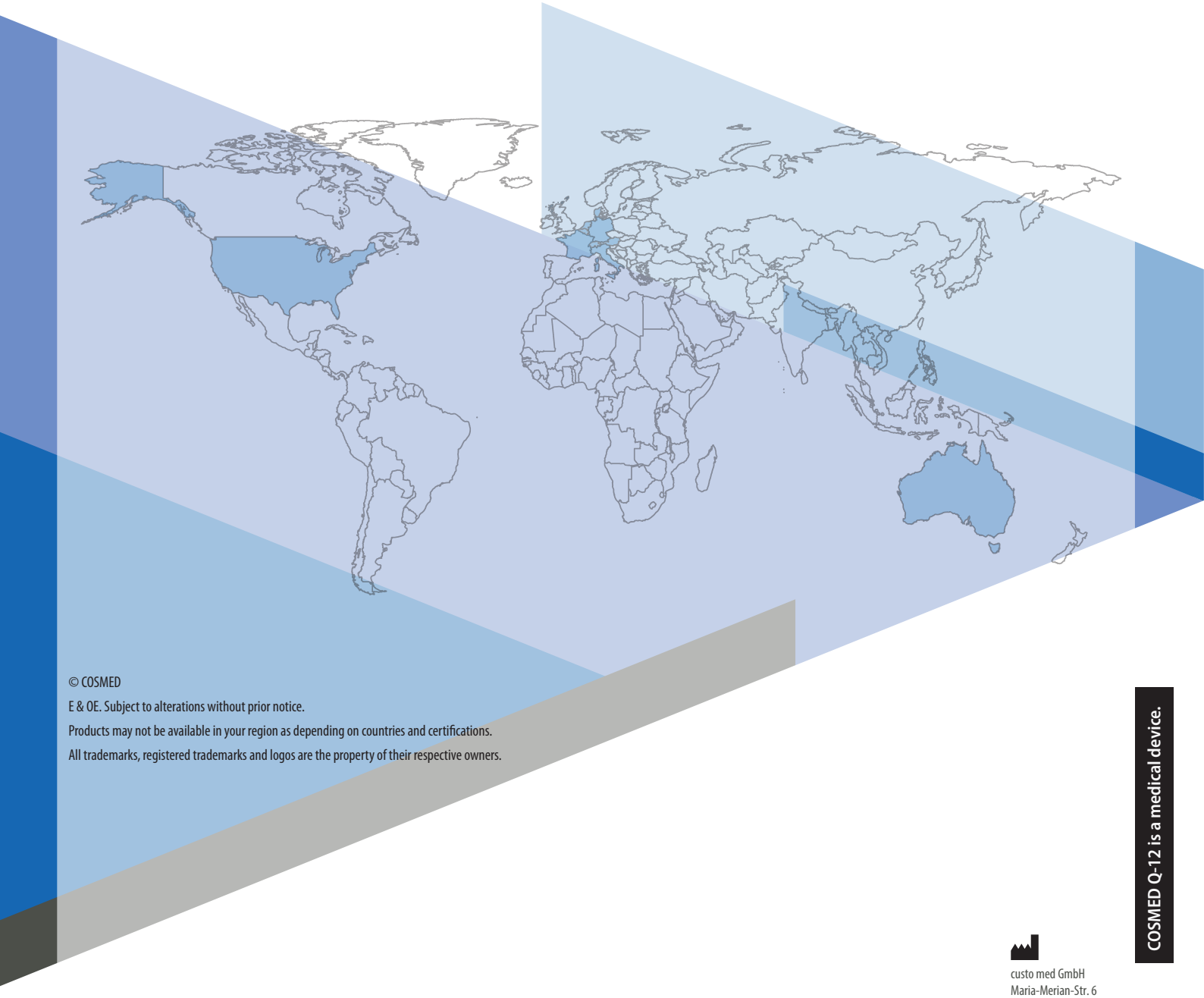
COSMED Asia-Pacific Pty Ltd
Artarmon
+61 449 971 170
ANZ@cosmed.com

HONG KONG

COSMED HK Ltd
Kowloon
+852 3708 3126
HK@cosmed.com

CHINA

COSMED Guangzhou Medical Technology Co. Ltd.
Guangzhou
CHINA@cosmed.com



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COSMED Q-12 is a medical device.

custo med GmbH
Maria-Merian-Str. 6
85521 Ottobrunn
Germany

COSMED

COSMED Srl

Via dei Piani di Monte Savello 37
Albano Laziale - Rome 00041
Italy
+39 (06) 931-5492 Phone
+39 (06) 931-4580 Fax

cosmed.com

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