

Quark C12x-T12x

Stress Testing ECGs

“When heart and lung
meet together...”



Diagnostic Quality 12-lead Stress Testing ECGs
available in telemetry or cable configuration



COSMED
The Metabolic Company

“*Electrocardiographic (ECG) recording system for continuous monitoring of heart rhythm and evaluation of ischemic ECG changes during exercise and recovery⁽¹⁾*”

- | Resting and Exercise ECG interpretation
- | High resolution ECG processing
- | Full Disclosure and Scroll back during the test
- | ST segment, ST slopes, Trends
- | Retrospective ECG and arrhythmia analysis even during test
- | Standard and user defined Exercise Protocols
- | Integration with COSMED Gas exchange equipment
- | Patient Database & Network Compatibility



COSMED Stress ECGs are the ideal diagnostic quality PC-based ECG devices for patient care from prevention to rehabilitation. Ultimate quality ECG signal allows an efficient diagnosis of coronary artery disease, the evaluation of patients after artery bypass surgery or angioplasty, and allows to document response to therapies and prevent from myocardial infarction.

Combined with any COSMED gas exchange analysis equipment, COSMED Stress ECGs become the complementary tools that help clinician to quantify patient's functional capacity and evaluate cardiac response in athletes.

COSMED PC-based stress testing systems offer the ultimate in stress testing flexibility, meeting the most advanced requirements for clinical exercise testing.

Two versions are currently available:

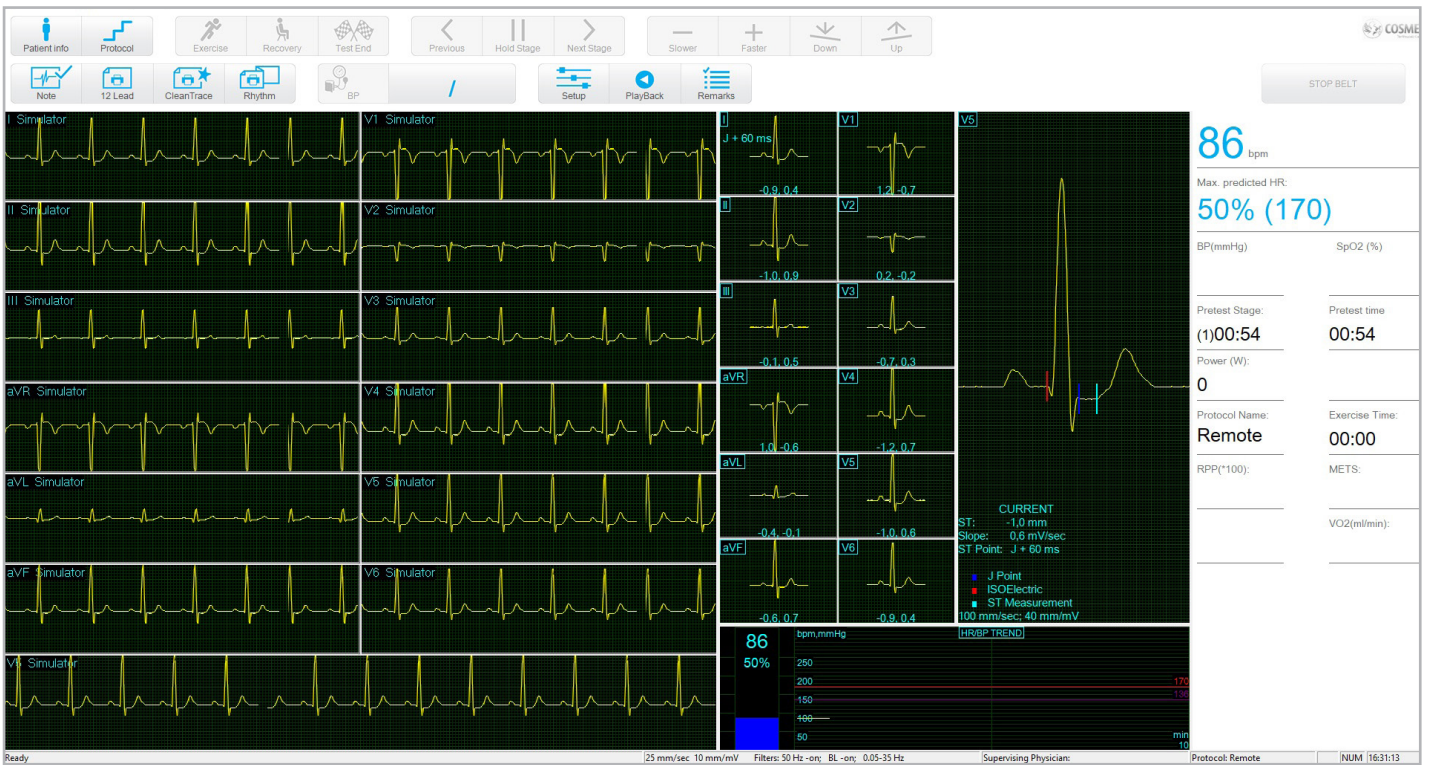
- **Quark C12x** - 12-lead Patient Cable Stress Test ECG, with USB communication interface.
- **Quark T12x** - 12-lead Wireless Stress Test ECG (Telemetry). State of the art Digital Radio Frequency technology, immune to environmental interference. Optimized for working in noisy EM Environments (Bluetooth, Wi-Fi Networks, Cellphones etc.). It includes an automatic Channel Shift Feature for selecting the optimal Transmission Channel.

Design

- **12 leads ECG** 12-lead simultaneous recording, display and printout. Detachable 10 lead wires conform to AAMI (AHA) or IEC color codes. Every single lead can be replaced independently
- **High resolution of signal processing** (up to 500 samples/sec) guarantees exceptionally clear tracing for visual view and on screen measurements
- **On-line filtering** Advanced digital filters and automated baseline correction for real-time and stored ECGs to create exemplary ECG traces
- **Integration with COSMED gas exchange equipment** stress ECG and ergospirometry parameters can be thus recorded synchronously, identifying cardiac, pulmonary and vascular function in just a single measurement



(1) AHA Guidelines for Clinical Exercise Testing Laboratories. Circulation. 1995; 91: 912-921



Software Features

Powerful software allows full control over ECG acquisition, real time display, report configuration and printing.

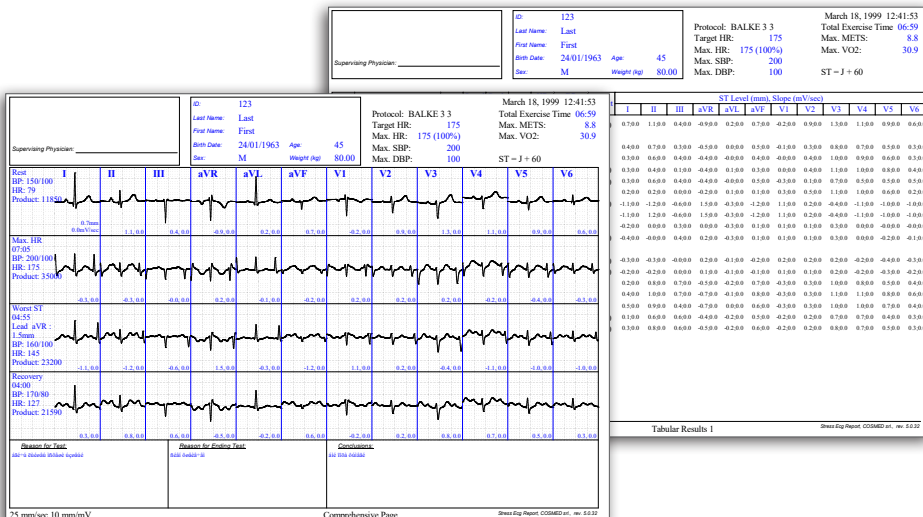
High resolution ECG processing produces an exceptionally clear on-screen display and allows detailed, reliable analysis of ST segments and subtle arrhythmia changes.

Main software features are:

- Full disclosure of entire test enabling post processing on saved data
- Scroll-back during test to see episodes that might have been overseen
- Automatic Arrhythmia detection, print and capture with the possibility to disable unwanted detection types

- Pacemaker detection with mark spikes on screen and in report
- Real time and retrospective J Point and Isoelectric identification
- Predicted oxygen uptake and METS estimation
- Real time super imposition QRST complex
- Remote viewing anywhere on your local hospital network room
- User defined, automatic print during test (standard paper or thermal paper print options)
- Complete reporting functionality allowing the configuration of textual summary and ECG data

- Quality controls including lead quality check and audible signals for lead disconnection and max HR
- User initiated and automatic capture of events
- Pre-programmed user definable testing protocols, including pharmacologic test profiles and many different treadmills and bicycle ergometers
- Export formats: JPEG, XML, GDT, PDF
- Integration with OMNIA Suite including database
- Multiple SpO2 sensors integration



Nonin® Wrist Ox2 3150 pulse oximeter for SpO2 integration



Suntech Tango® blood pressure monitor allows to integrate several parameters, including SpO2

Multiple printout report formats (single lead, all leads, full disclosure, sum up, trends, QRS, etc.)



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