

The QUINTON® Q-STRESS®

The gold standard in cardiac stress testing systems

Primary Users

Hospitals, cardiology clinics, and physician practices

Primary Benefits

Ease of use. The system's Microsoft® platforms (Vista® or XP®), left-to-right flow, and intuitive controls guide users through the procedure.

Connectivity. Q-Stress connects with virtually everything needed for enhanced workflow. It's compatible with XML protocols, your HIS/EMR, email, printer, network storage, nuclear camera, and echo system.

Customizable. You decide how you want your patient data presented. Create custom reports based on physician's preference.

Accuracy. Tracings are accurate and clear, with clean waveforms even at high speeds and steep grades.

Instant replay. The Freeze Frame option allows you to "rewind" and view any section of any lead during the test.

Full disclosure. With the full disclosure option, you can save the entire test as a PDF and store it to your electronic records repository.

Easy analysis. Built-in analysis tools allow modifications for new patient data or for physiologic changes – resting data remains constant for comparison.

Easy reporting. QuikLists enable fast, efficient preparation of your reports.



From the inventors of the modern cardiac stress test

Q-Stress, now in its ninth generation, is designed to provide superior clinical data while meeting your procedural needs.

- + Start by importing your patients' demographics. It will streamline your work, eliminate unnecessary keying, and minimize documentation errors and mishandled billing.
- + Run our proprietary algorithm, baseline wander, and motion artifact filters for better ECG tracings with less noise.
- + Display 3-, 6-, or 12-leads of data and easily view, print, save, or email in-tests or final reports.
- + Be confident knowing the system indicates you to significant ECG changes – it updates analyses and displays anomalies, including ST anomalies and ectopic beats.
- + Append significant data to the final report or export the complete full disclosure to your hospital information (HIS) or electronic medical record (EMR) systems.

Configured with our TM55 or TM65 treadmill, you'll be fully equipped for top performance. Our medical treadmills have been the industry's gold standard for more than three decades and are among the best selling in the world.

Q-Stress connects and streamlines your workflow

Robust network connectivity improves your workflow by using XML protocols and PDF formats – that saves time!

- + Using the Q-Exchange™ option, download patients' demographics from the HIS/EMR.
- + Combine stress data with other systems that use non-proprietary formats, including your nuclear camera and echo system.
- + Share final reports, access shared printers, and archive information to your HIS/EMR.
- + Electronically capture and transmit charges to facilitate billing.



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TECHNICAL SPECIFICATIONS			
OPERATING SYSTEM	Windows XP / Vista Ultimate		
POWER REQUIREMENTS	100/120 VAC 50/60 Hz 2.5 A nominal; 200/240 VAC 50/60 Hz 1.3 A nominal		
PROTOCOLS	<p>Standard Bruce, Modified Bruce, Modified Balke, Naughton, USAF/SAM 2.0, USAF/SAM 3.3, Ramped-low, Ramped-medium, Ramped high, Åstrand (ergometer), Persantine (pharmacological)</p> <p>Custom Unlimited custom protocols can be created</p>		
PATIENT MODULE	<p>AHA 10-electrode with pinch or snap connectors</p> <p>IEC 10-electrode with pinch or snap connectors (available for International only)</p>		
ECG	<p>Capability True 12-lead</p> <p>Gain 5 mm/mV, 10 mm/mV, 20 mm/mV</p> <p>Lead Groups Standard (Mason-Likar), Cabrera 12-lead, Frank, Canadian Bipolar</p> <p>Display 3, 6, 12 channels</p> <p>Performance Standard AAMI-EC II: gain accuracy, frequency response, CMRR, system noise, dynamic range, and input impedance</p>		
DISPLAY AND ANALYSIS FILTERS	Muscle artifact filter, baseline wander filter, 40 Hz low pass, line frequency. All filters can be turned on or off by the user		
ECG COMPUTATIONS	<p>Heart Rate Computation 6 second average updated every 2 seconds</p> <p>ST Parameters Level and slope</p> <p>Reference Point J Junction (QRS offset), user-selectable</p> <p>QRS Detection ASVV (Absolute Spatial Vector Velocity), user can select any three leads</p> <p>Beat Detection Enhanced Quinton Stress algorithm for improved beat detection</p>		
REPORTS	<p>In-Test 12-lead, average beat, 1-page write screen, continuous write screen, ectopic detail</p> <p>Final Summary, tabular, worst case, average beats, in-test reports, trend graphs and peak exercise. Full Disclosure page addendum available with Full Disclosure option</p> <p>Custom Reports can be viewed, printed, saved in PDF format, e-mailed or faxed. XML format for data export to other systems Unlimited custom report available</p>		
OUTPUTS	TTL pulse for QRS detection (lead is user-selectable); 3 user-selectable analog outputs using any ECG lead		
EXTERNAL DEVICE INTERFACES	<p>Treadmills TM 55/65, ST 55/65 (upgrade kit required)</p> <p>Ergometers Corival, Ergoselect, Rehcor</p> <p>Blood Pressure Monitors Colin BP412, Colin STBP-780 (Japan only), SunTech Tango+</p>		
AVAILABLE PRINTERS	<p>Thermal High-resolution with automatic feed and continuous printing capability</p> <p>Laser Optional Laser printer: compact HP laser printer with high quality print</p> <p>Paper 8.5 in x 11 in (US letter) or 210mm x 300 mm (A4)</p>		
NETWORK INTERFACE	Optional Microsoft compatible networking for file storage, distribution and email.		
EXPORT/COMMUNICATION PROTOCOL/FORMAT	XML, PDF, TCP/IP		
REMOTE TECHNICAL SERVICE INTERFACE	Remote service increases system uptime availability and decreases the user's requirement to assist the troubleshooting process. Available via network or desktop connections (available only in the US)		
DISPLAY	483 mm (19 in) LCD flat panel		
ENVIRONMENTAL	<p>Operating conditions Temperature: 50°F to 77°F (10°C to 25°C); Relative humidity: 20% to 80% non-condensing</p> <p>Storage conditions Temperature: -14.8°F to 104°F (-26°C to 40°C); Relative humidity: 10% to 95% with condensation at or below 77°F (25°C)</p> <p>Thermal paper storage at or below 86°F (30°C)</p> <p>Electrodes storage</p>		
SAFETY AND STANDARDS	EN 60601-1, Type CF defibrillation proof applied part	IEC 61000-4-6	IEC 61000-3-2
	IEC 61000-4-2	IEC 61000-4-4	IEC 61000-4-8
	IEC 61000-4-3	IEC 61000-4-5	IEC 61000-4-11
			RF emissions CISPR 11
CART DIMENSIONS AND WEIGHT	30 in x 20 in x 36 in (762 mm x 508 mm x 914 mm); 120 lb (54 kg)		
WARRANTY	13 months parts and labor		
OPTIONS	Networking, Q-Exchange, Full Disclosure, Freeze Frame, Re-Analysis		

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