

The BURDICK® Quest® Exercise Stress System

The perfect stress testing system for primary care practices

Users

Primary care practices

Primary Benefits

Flexibility. Quest offers 11 standard, pre-programmed protocols and allows you to perform resting 12-lead ECGs and exercise stress tests.

Accuracy. The system eliminates non-cardiac electrical noise and baseline wander for clear ECG tracings.

Simplicity. Just point and touch the intuitive touch screen – that's all there is to it.

Ease of use. The Logistep™ feature walks users through the test by highlighting the next step.

Confidence. Opt for the resting 12-lead option featuring the Glasgow interpretive algorithm.

Real-time. Quest's large screen instantly displays 3, 4, or 6 channels and freeze frames for detailed reviewing and printing.

Connectivity. The system is compatible with Ethernet protocols, our Pyramis® data management system, and our HeartCentrix® middleware.



High performance and ease of use

Burdick Quest is just right for offices looking for value, simplicity, and increased patient throughput. For superior features, durability, and dependability, look no further!

- + Use the quick connect feature to prep a patient in a different room.
- + Touch the color-coded, pull-down menus right on the screen.
- + Choose from over 15 configurations for 3-, 4-, or 6-lead reports.
- + Easily correct unintentional phase changes without having to restart the test – your patients will appreciate that!
- + Customize 20 protocols of your own design in addition to the pre-programmed ones.

Configure the system with a Quinton TM55 or TM65 treadmill and your office will be up and running. Our treadmills are the gold standard in the industry – they are smooth, quiet, and can carry a 500 lb (22 kg) patient.

Comprehensive data management

Increased patient throughput means more data – and Quest has excellent capabilities to help you manage your workload.

- + Correct patient demographics, edit the test report form, and enter comments as you wish using the online editing capabilities.

HeartCentrix – an exceptional connectivity solution

HeartCentrix is an optional communications package to connect your Quest system to your EMR. With a single sign-on within the EMR, you'll be able to store and retrieve unlimited full-disclosure reports on your network, and upload test results back to the EMR.

The BURDICK® Quest® Exercise Stress System

TECHNICAL SPECIFICATIONS

POWER REQUIREMENTS	115/230 V AC +/- 10%; 2.5/1.25 A; 50/60 Hz nominal; 300 VA max.
PROTOCOLS	
Standard	Manual, Bruce, Modified Bruce, Balke, Naughton, Ellestad, Kattus, Ramp, Astrand, Modified Astrand, Pharmacological
Custom	20 protocols with up to 30 stages each
PATIENT MODULE	
Type	AHA 10-electrode replaceable leads IEC 10-electrode replaceable leads
ECG	
Frequency response	0.05 Hz to 150 Hz, +10% to -30% (maximum)
Gain	5, 10, 20 mm/mV
Display	3, 4 or 6 channels
Performance standard	ANSI/AAMI-EC 11: gain accuracy, frequency response, CMRR, system noise, dynamic range, and input impedance
DISPLAY AND ANALYSIS FILTERS	Muscle artifact filter (20Hz or 40Hz); baseline filter (0.12 Hz or Stable(meets all AHA 1990 recommendations)). All filters can be turned on or off by the user.
ECG COMPUTATIONS	
Heart rate	8-beat average, 30 bpm to 250 bpm, updated every second
Heart rate meter accuracy	AAMI EC13 3.2.7
ST parameters	Level, slope for 12 leads simultaneously
Reference point	E-point (QRS onset), J-Junction (QRS offset), ST segment, user selectable (0 msec. to 100 msec., 5 msec. interval)
QRS detection	II, V2 and V5 with switching
Ectopic detection	Ventricular arrhythmias, unclassified
REPORTS	
In-Test	12-lead or Average Complex with Trend Graphs (HR/BP, Single-lead ST, 12-lead ST, Side by side averages, Overlaid averages, 12-lead averages), Rhythm, Ectopic Beat, Event Identification.
Final	User-selectable; Exercise Test Summary in tabular or narrative format; Average Complex Summary (Baseline, Maximum ST, Maximum Exercise); Trended Average Complexes (per minute or per stage); Trend Graphs (HR/BP, RPP, METS, Ectopics, 12 single-lead ST)
Configureable	Up to 5 user-defined configurations with final reports and protocol selections
OUTPUTS	TTL pulse for QRS detection (50 msec. delay), 4 user-selectable analog outputs
EXTERNAL DEVICE INTERFACES	
Treadmills	TM 55/65, ST 55/65 (upgrade kit required)
Ergometers	Lode
Blood pressure monitors	SunTech Tango+

PRINTER	
Thermal Paper	High resolution thermal dot array 8.5 in x 11 in (US letter) or 210 mm x 300 mm (A4) Z-fold
NETWORK INTERFACE	Ethernet 10baseT
EXPORT FORMAT	HL7 protocol or XML PDF
DISPLAY	15 in, high-resolution color with integrated touchscreen; user-adjustable tilt (•15°) and swivel (•90°)
ENVIRONMENTAL	
Operating temperature	50°F to 104°F (10°C to 40°C)
Operating relative humidity	15% to 95% non-condensing
Operating atmospheric pressure	525 mmHg to 795 mmHg (700 hPa to 1060 hPa)
Storage temperature	-5° F to 130°F (-20° C to 55° C)
Storage relative humidity	5-95%, non-condensing
Storage atmospheric pressure	500-1060 kPa (375 to 795 mmHg)
Thermal paper storage	at or below 77°F (25°C)
Electrodes storage	at or below 86°F (30°C)
SAFETY AND STANDARDS	
	ANSI/AAMI EC11, 1991 IEC 61000-4-2 AZ/NZS 2064.1/2 IEC 61000-4-3 EN 60601-1-1 IEC 61000-4-4 EN 60601-1-2 IEC 61000-4-5 IEC 601-1, Class 1, Type CF IEC 61000-4-6 IEC 601-1 IEC 61000-4-8 IEC 601-2-25 IEC 61000-4-11 IEC 61000-3-2 IEC 950 IEC 61000-3-3
CART DIMENSIONS AND WEIGHT	60 in x 25 in x 34 in (152 cm x 63 cm x 86 cm); 170 lb (78 kg)
WARRANTY	Quest system, 3 years limited warranty; Year 1: parts, travel, labor. Year 2 and 3: parts only; Treadmill, 13 months
OPTIONS	Resting ECG Analysis, Networking

ORDERING INFORMATION

ACCESSORIES	
040-1240-00	SunTech® Tango+® system for Quest, 90-250V
011440-004	Quik-Prep® applicator, 115V UL/CS
011440-005	QuikPrep applicator, 220V
031581-001	Quik-Prep electrode, round foam, 45.5 mm
716-0237-00	Assurance® paper for use with Quest
097001	Blue Max® 40 mm electrodes, vinyl snap
097002	Blue Max 40 mm electrodes, foam snap

Cardiac Science Corporation • 3303 Monte Villa Parkway, Bothell, WA 98021 USA • 425.402.2000 • US toll-free 800.426.0337 • Fax: 425.402.2001 • info@cardiacscience.com

Orders and Customer Care (US and International) • 425.402.2000 • US toll-free 800.426.0337 • Fax: 425.402.2001 • care@cardiacscience.com

Technical Support • (US) Fax: 425.402.2022 • technicalsupport@cardiacscience.com • http://websupport.cardiacscience.com/webchat/ • (International) internationalservice@cardiacscience.com

Cardiac Science International A/S • Kirke Vaerloesevej 14, DK-3500 Vaerloese, Denmark • +45.4438.0500 • Fax: +45.4438.0501 • international@cardiacscience.com

United Kingdom • The Manse, 39 Northenden Road, Sale, Manchester, M33 2DH, United Kingdom • +44.161.926.0000 • uk@cardiacscience.com

France • Parc de la Duranne, 565, Rue René Descartes, F-13857 Aix-en-Provence Cedex 3, France • +33.4.88.19.92.92 • france@cardiacscience.com

Central Europe (D, A, CH) • Oskar-Schindler-Strasse 3, D-50769 Köln, Germany • +49.221.33734.300 • centraleurope@cardiacscience.com

China • 6/F South Building, 829, Yi Shan Road, Shanghai 200233, China • +86.21.6495.9121 • china@cardiacscience.com

CE Cardiac Science, the Shielded Heart logo, Burdick, Quinton, Quest, Quik-Prep, Assurance, Blue Max, and Logistep are trademarks of Cardiac Science Corporation. All other trademarks are owned by their respective owners. Copyright © 2009 Cardiac Science Corporation. All Rights Reserved. MKT-13200-01 rA. Authorized EU representative • MDSS GmbH, Schiffgraben 41, D-30175 Hannover, Germany

