

The BURDICK® HeartStride™ Exercise Stress System

A practical cardiac stress testing system with EMR connectivity

Primary Users

Physician practices and cardiology clinics

Primary Benefits

Ease of use. The system has easy-to-use, intuitive screens – just point and click.

User-friendly. The proprietary Logistep™ feature highlights the next step as you move through the testing protocol.

Seamless. HeartStride can connect to your echo or nuclear system and you can select the output channel you want.

Connectivity. HeartStride is compatible with XML protocols and our HeartCentrix® connectivity solution, so connecting to other office systems and your electronic medical record (EMR) system is a snap.

Flexibility. HeartStride offers eight standard, preprogrammed protocols, a pharmacological protocol, and manual control options.

Real-time. The system's large screen displays all heartbeats, even during protocol changes.

Accuracy. The automated electrode-impedance check ensures the highest possible trace quality and minimizes the need for repeat tests.



Easy to use with the features you need

Enjoy the simple graphical user interface while knowing you have access to enhanced clinical features and optional connectivity capabilities.

- + Easily connect the HeartStride to your echo or nuclear system, selecting the output channel you want.
- + Change testing protocols with a simple mouse click.
- + Use the full range of in-test and final report configurations to document exactly what you want.
- + Save time with the QuikList feature that provides conventional words or phrases for final report preparation.
- + Store virtually unlimited data and reports on the hard drive or export information to your EMR.
- + Add our optional HeartCentrix connectivity solution to enjoy bi-directional communications.

With a single sign-on within the EMR, you'll be able to download information and orders directly to the HeartStride and upload test results back to the EMR.

Training and support to get you up and running

Adding a new system to your clinical repertoire is exciting and Cardiac Science wants to help you succeed.

- + Our implementation team can advise you on room layout.
- + Initial on-site operations training is included.

Get even more with a TM55 or TM65 treadmill

The HeartStride can be configured with a Cardiac Science TM55 or TM65 treadmill powered by Ultradrive™, a digitally controlled AC-drive system. These medical treadmills are the gold standard in the industry – smooth, quiet, and capable of carrying a 500-pound (227-kilogram) patient.



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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 Standard | Bruce, Modified Bruce, Modified Balke, Naughton, USAF/SAM 2.0, USAF/SAM 3.3, Persantine (pharmacological) | | |
| PATIENT MODULE | AHA 10-electrode with pinch or snap connectors IEC 10-electrode with pinch or snap connectors (available for International only) | | |
| EKG Capability Gain Lead Groups Display Performance Standard | True 12-lead 5 mm/mV, 10 mm/mV, 20 mm/mV Standard (Mason-Likar), Cabrera 12-lead, Frank, Canadian Bipolar 3 channels AAMI-EC II: gain accuracy, frequency response, CMRR, system noise, dynamic range, and input impedance | | |
| 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 | | |
| EKG COMPUTATIONS Heart Rate ST Parameters Reference Point QRS Detection Beat Detection | Computation 6 second average updated every 2 seconds Level and slope J Junction (QRS offset), user-selectable ASVV (Absolute Spatial Vector Velocity), user can select any three leads Enhanced Quinton Stress algorithm for improved beat detection | | |
| VISUAL AND AUDIO NOTIFICATIONS | ST level elevation, ST level depression, target HR achieved, ectopic rate, diastolic BP, systolic BP, systolic BP drop, heart rate, stage changes, max heart rate and target HR achieved | | |
| REPORTS In-Test Final | 12-Lead, average beat, 1-page write screen, continuous write screen, ectopic detail Summary, tabular, worst case, average beats, in-test reports and peak exercise Reports can be viewed, printed, saved in PDF format, e-mailed or faxed. XML format for data export to other systems | | |
| OUTPUTS | TTL pulse for QRS detection (lead is user-selectable); 3 user-selectable analog outputs using any ECG lead | | |
| EXTERNAL DEVICE INTERFACES Treadmills Ergometers Blood Pressure Monitors | TM 55/65, ST 55/65 (Upgrade kit required) Corival, Ergoselect, Rehcor Colin BP412, SunTech Tango+ | | |
| AVAILABLE PRINTER | Optional Laser printer: compact HP laser printer with high quality print | | |
| NETWORK INTERFACE | Optional Microsoft compatible networking for file storage, distribution and email | | |
| EXPORT/COMMUNICATION PROTOCOL/FORMAT | XML, PDF | | |
| 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 Operating temperature Operating relative humidity Storage temperature Storage relative humidity Thermal paper storage Electrodes storage | 50°F to 77°F (10°C to 25°C) 20% to 80% non-condensing -14.8°F to 104°F (-26°C to 40°C) 10% to 95% with condensation at or below 77°F (25°C) at or below 86°F (30°C) | | |
| SAFETY AND STANDARDS | EN 60601-1, Type CF defibrillation proof applied part IEC 61000-4-2 IEC 61000-4-3 | IEC 61000-4-4 IEC 61000-4-5 | IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 IEC 61000-3-2 IEC 61000-3-3 RF emissions CISPR 11 |
| CART DIMENSIONS AND WEIGHT | 30 in x 22 in x 35 in (762 mm x 558.8 mm x 889 mm); 142 lb (64 kg) | | |
| WARRANTY | 13 months | | |

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