GE® CASE® STRESS TEST SYSTEM

- Remote viewing function
- Digital compact acquisition module reduces non-cardiac electrical noise
- Waterfall Display color maps all exercise test ECGs into one quickly and easily reviewable screen.
- Customizable StressChart offers a tabular summary of all test variables for clear, consistent and efficient report generation

Specifications
Performance Specifications
Instrument Type
Unity®-enhanced cardiac stress testing system with 14 channel acquisition and programmable, lead configurations. Pentium-based, NT technology platform and hard drive storage delivers local and Catalyst MUSE® database access

Signal Processing
ECG analysis frequency: 500 Hz; ST measurements: ST amplitudes, slope, integral, index, ST/HR slope, ST/HR loops, ST/HR index up to 15 leads; E, I and post-I point: Manual or computer selected; Signal processing technique: Incremental median updating; Baseline correction: Cubic Spline or Finite Residual Filter (FRF) algorithm; QRS detection and analysis: Based on automatic or manual lead selection; ECG output: Real-time ECG/QRS beep/TTL synchronization output; Heart rate: Automatic arrhythmia detection, documentation and annotation; Full disclosure ECG: Beat-to-beat ECG record and event review; Remanalysis: Post-test medians remeasurement from E, I, post-I point selections; ECG interpretation: (Optional) 12SL™ adult and pediatric ECG analysis program; Additional ECG function: Vectorcardiography

Data Acquisition
Technology: Active, “Type BF” floating isolated powered 14 channel acquisition module with built-in leadfail detection and lead prep impedance measurement; Sampling rate: Over-sampling @ 4000 Hz, 12 leads; Dynamic range: 320 mV, + 10 mV signal superimposed on + 150 mV DC offset; Resolution: 4.88 µV/LSB @ 500 Hz; Noise: < 15 µV peak-to-peak noise over 0.01 to 150 Hr (-3 dB) bandwidth; Frequency response: -3 dB, display and writer High pass filter: 0.01 (or 0.05 Hz, special use) with DC offset control; Low pass filter: 20, 40, 100, 150 Hz (selectable); Line filter: 50.0 or 60.0 Hz notch filter (selectable); Baseline correction: Cubic spline algorithm; Artifact/baseline correction: FRF algorithm; Common mode rejection: > 140 dB (123 dB with AC filter disabled); Input impedance: > 10 MW @ 10 Hz, defibrillator protected; Patient leakage: < 10 µA Pace detect: Orthogonal LA, LL and V6; 750 µV @ 50 µs

Communications/Storage
Catalyst MUSE® CV system compatible via diskette, network (optional) or modem (optional) MUSE CV Web compatible for retrieval view and printing of Catalyst MUSE CV system data Remote view (optional) of real-time stress test and remote location Local storage: Minimum 3.2 Gb hard drive storage of complete ECG record and test results Local network storage (optional)

Display
Display type: High-resolution, color 0.25 mm dot pitch raster-written CRT;
Display resolution: 1024 x 768 x 70 Hz refresh;
Display size: 15" (standard) or 17" (optional) diagonal SVGA; Monitored leads: 3, 6 or 12;
Displayed leads: Number or screen 3 or 6 (12 lead check);
Display format: 3 rhythm, 3 rhythm + medians, 3 rhythm + trends, 6 rhythm, 4 x 2.5 + 1 rhythm, 2 x 6;
Display speeds: 25, 50 mm/s; Display sensitivity/gain: 2.5, 5, 10, 20 mm/mV;
Displayed vital signs data (configurable): Heart rate, target heart rate, blood pressure, exercise clock, stage
clock, phase clock, protocol, speed, grade, Watts, METS, RPP and SpO2;
Displayed data: ST scan/median complexes, arrhythmias, ventricular ectopic/min counter, 3 to 15
waveforms, lead check torso and 12 leads, waterfall display, trends, tabular summary, stored ECG strips,
time-of-day clock, patient name, warning messages and prompts

**Writer**

Writer technology: “Instant” load, thermal dot array;
Writer leads: 3, 6, 12 or 15 leads (standard, NEHB, Cabrera, configurable);
Writer speeds: 5, 12.5, 25 and 50 mm/sec (+ 2%);
Writer sensitivity/gain: 2.5, 5, 10 or 20 mm/mV (+ 5%);
Writer resolution: Horizontal 1000 lines/sec x 200 dpi dedicated local printing.
200 x 200 dpi generic printing;
Paper type: Thermal, perforated, fan fold, 300 sheets/pack;
Paper size: A size 214.63 x 280 mm (8.45 x 11 in) A4 size 210 x 297.5 mm (8.27 x 11.7 in)

**Power Requirements**

Power supply: AC operation only; Operation voltage range: 90-135 VAC, 45-63 Hz, 2.8 A; 180-270 VAC,
45-63 Hz, 1.4 A; Power consumption: 350 W max (1200 BTU/Hr) <250 W normal (850 BTU/Hr) <30 W
standby (100 BTU/Hr)

**Physical Specifications**

Height: 160 cm (63 in) with 17" monitor installed;
Width: 76 cm (30 in) with paper tray removed 104 cm (41 in) with paper tray;
Depth: 86.5 cm (34 in); Weight: 68 kg (150 lb) without monitor 86 kg (190 lb) with 17" monitor

**Interfaces included**

Acquisition module
Keyboard (PS/2) and dedicated stress keypad (USB); Mouse (PS/2);
Built-in thermal printer (USB) (optional);
Parallel printer port (LPT1) (only printers modified by Marquette are allowed to be installed);
10 Mbps Ethernet (10baseT or BNC) Catalyst MUSE compatible;
6 serial ports: (COM 1-2, COM A-D) - treadmill, BP, ergometer, SpO2, and modem; 4 analog and 1 TTL
(trigger) output -analog ergometer, camera synch., etc.;
Diskette drive: 3-1/2 in, 1.44 MB PC-compatible for data storage;
CD-ROM drive: Readable, for software updates and on-line computer-based training

Soma Technology, Inc. acknowledges all registered trademarks of manufacturers’ listed.
The technical data given in this publication are for general information and are subject to change
without notice.