**Product : Wireless Treadmill Stresstest Machine**

**Brand : Philips**

**Country of Origin : US**

GENERAL SPECIFICATION OF THE SYSTEM

1. Must have at least 100 different user profiles
2. Able to program up to 100 exercise protocols including Bruce, Modified Bruce, NIH Protocols
3. Able to program pharmacological protocols such as Stress Dobutamine for patients unable to utilize the stress test exercise machine
4. With standard 5 phases of patient exercise test: Prepare, Pre-exercise, Exercise, Recovery and Report (Post-recovery)
5. Must have an automatic 12-lead ECG system and prompts for blood pressure measurement
6. Must use DXL and CAIg-STR Exercise ECG Analysis Algorithm
7. Must have multi-final report formats with custom report sequence capabilities
8. Should have ST Maps and able to present and highlight the ST level & slope status of the patient through zoomed ECG waveforms showing ST level & slope.
9. Must display hemodynamic changes like target/maximum/current heart rate, current and previous BP, SpO2, double-product and METS.
10. Must have beat by beat review mode, post-test playback allows full disclosure of entire test
11. Can interface with the following: Trackmaster TMX425 series threadmill, Ergoline and lode ergometers, Analog and TTL output for stress-echo and NIBP sync, and SunTech Tango NIBP/SpO2 monitor.

Treadmill

1. User weight capacity: maximum of 500 lbs / 227 Kg
2. Must have a stop / emergency safety feature
3. Must have safety tubular handlebars and handrails installed
4. Must have cable that is able to connect to CPU
5. Speed and inclination must be manually adjustable:
	1. Speed range should be adjustable from 0.1-12mph (.16-19kph) or more
	2. Inclination must be adjustable from 0-25% or more

Transmitter

1. Must have a 10-wire lead ECG cable, AAMI or IEC color coding, lead replacement must be standard
2. Must be wireless and uses commercially available single AA alkaline battery
3. Must be compact and lightweight, 900g or less
4. Must have a battery life indicator/power status
5. Must have lead map with lead connection status LEDs
6. Must have signal strength indicator
7. System must be able to pair with more than one transmitter for patients in queue

Monitor

1. All-In-One System (Monitor and CPU must be one system)
2. At least 23-inch LED, colored, flat panel, touchscreen
3. All instructions and display read out should be in English

CPU

1. All-In-One Monitor and CPU must be one system
2. At least have an Intel Quad Core i3
3. At least Microsoft Windows 8.1 Pro license
4. Must have at least 4GB RAM
5. Must have Storage Hard drive of at least 500GB
6. Must have a keyboard, optical mouse, Bluetooth
7. Must be able to be upgraded up to the latest Microsoft version
8. Minimum 4USB Ports
9. Optical DVD/CD Drive

UPS (Third Party)

1. Voltage: 240 VAC at 50/60 Hz
2. Life / standing time when not connected to main power switch: must be at least 30 minutes

Printer (Third Party)

1. Must be a high-speed Laser jet, 30 ppm minimum
2. Must be able to print in black and white
3. Print resolution: Up to 1200 by 1200 dpi
4. Must have a print server with the following features
	1. Must have a processor of at least 540 MHz
	2. Must have memory of at least 128 MB (upgradeable to 640 MB – free of service)
	3. Must have a security lock slot
	4. Must have a Hi-Speed USB 2.0 port

Trolley

1. Manufacturer OEM Trolley, customized for stress test system
2. Must have shelves to house CPU, monitor, keyboard, printer, and UPS
3. VESA type monitor mount, swivel or fixed
4. Built-in pull-out drawer
5. Powder coated steel finish
6. Must have lockable caster wheels

Software

1. Software must be able to differentiate between noise and signal in each lead while preserving diagnostic-quality ECG waveforms
2. Must be PC based with minimum Microsoft Windows operating system (upgradeable).
3. Must have wireless ECG acquisition to eliminate noise and other problems associated with cable sag and movements (transmitter)