



CardioDirect 12S Stress Testing System

CARDIAC DIAGNOSTIC SOLUTIONS

Stress Testing Solutions from Spacelabs Healthcare

The CardioDirect12S is a comprehensive Stress Test system that can be configured to suit the user's needs.

The small lightweight USB acquisition module is convenient and comfortable for the patient. The System Cart houses all the system components in a functional and ergonomic layout.

Heavy duty treadmill, bicycle ergometer or integrated NIBP unit are available options.



Turnkey solution with either Treadmill or Ergometer

Flexibility & functionality

Treadmill

The Trackmaster TMX425 provides a robust and reliable medical grade treadmill, to handle the rigours of a busy exercise stress test lab.

Ergometer

A range of ergometers are available to suit particular requirements including units with built in NIBP units.

Integrated NIBP

Automatic NIBP measurement for treadmill use is available using the Tango NIBP.

User definable Protocols

With CardioDirect12S the user can select from a comprehensive set of protocols or define their own. Other system parameters can also be configured to automate the stress test procedure as required.



Streamline Design



Where it matters most on a stress test

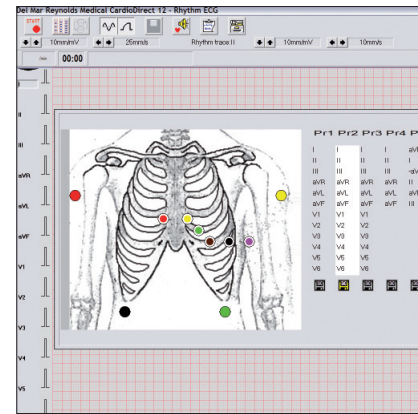
12-Lead Full Disclosure available during the Test

CardioDirect12S offers the user full configuration of the system.

The system has many screens that provide the operator and clinician with concise information.

Screen displays include:

- Pre-test lead check, encouraging good hook-up for clean ECG
- ECG with lead select, rhythm and full disclosure
- Realtime superimposed QRS complexes show changes in the median during the test
- Trend graphs including load, speed, ST levels and NIBP measurements
- NIBP and comments prompt screen



Pre-test lead check



Data Management & Networking

The full stress test is stored in the CardioNavigator database for post test review on the system or on networked CardioNavigator workstations.

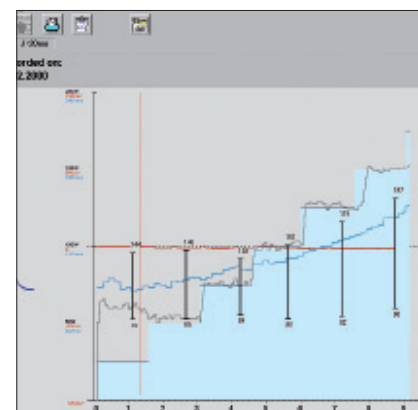
Post test, CardioNavigator enables the clinician to:

- View the full disclosure ECG and select 12-Lead printouts
- View the timed and automatic 12-Lead ECGs
- QRS complexes with superimposition replay
- ST trends and tables
- CardioNavigator is the Spacelabs Healthcare central data management system for communication and integration of data from all of our products



CardioNavigator Provides:

- A central SQL or paradox database of recordings and reports that can be accessed for analysis or review from any networked system
- Network viewing of reports including viewing, editing and analysis of results including local printing
- Electronic transmission of recordings or results via e-mail to other users of CardioNavigator
- HL7, Bidirectional interface to hospital information systems
- Reports can be stored in PDF or RTF format
- Network, CD or DVD archiving of databases for backup



Additional features

- Crystal clear ECG trace
- Large ST median complex display
- Display user-selected ECG leads during test
- Definable rhythm lead
- In test comments for report annotation
- Network compatible
- Plain paper printing
- Easy to operate
- Extensive post test review displays
- Compare up to 5 recordings
- Large scale ST graphs
- Median complex sets on-screen
- Treadmill & Ergometer compatible
- Emergency recording facility
- Standard Protocols (Bruce, Modified Bruce, Naughton, Modified Naughton, Balke II)
- Unlimited User defined Protocols



Technical Specifications

Alphanumerics displayed

Patient name, HR, BP, Treadmill speed and elevation, Ergometer workload, RPM, METS, ST pos, neg or worst case, ST slope, Stage/phase clock

Trends displayed

ST deviation, HR, BP, superimposed complexes

Report formats

Full disclosure, Load & ST diagrams, Rep. cycles, Load + HR + BP + Comments, Summary + Measurement table, Summary + Trend diagrams, 12-lead ECG

Measurement Point Processing

J+20ms, J+60ms, J+80ms, J+1/8T, J+2/8T Post processing available

Compatible treadmills & ergometers

Treadmill Trackmaster TMX425, TM400 OR RAM770
Ergometer Ergoline 100, 200 series or Seca Cardiotest 100

Special features

Optional remote monitoring of Resting, Rhythm & Stress ECG with CardioOnline, Email feature and HL7 Interface



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