CARDIOLINE



New Cubestress

12 Lead wireless Stress Test System

Designed together with physicians and stress technicians, Cubestress enhances the productivity of the Stress Laboratory by providing exceptional ECG signal quality and sophisticated analysis, fast and secure test execution and seamless bidirectional connectivity to improve data workflow. In conjunction with the Cardioline ECGWebApp, Cubestress can store and retrieve the full test allowing web based remote stress execution and physician review. Cubestress configuration is scalable to meet your laboratory needs.

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ECG signal quality and analysis

HD+ is the wireless acquisition module used High quality signal and automatic measurements for Cubestress. Its lightweight design and help clinicians guickly analyze the stress ECG portability increase patient comfort and with total confidence. New algorithms for beat mobility on treadmill, bicycle or while reclining detection, arrhythmia classification, ST analysis, for stress-echo procedures. Freeing your as well as QTc measurements and risk factor patient from wires also decreases motion calculations, have been designed to provide interference, while still transmitting a high diagnostic information you can rely on. resolution, high quality ECG signal.

Industry leading algorithms



Wireless design enhances patient comfort and reduces motion artifact.

A step by step intuitive interface

The large touch screen display allows for easy lead "context view" ECG, 12 lead average and intuitive navigation through the exercise reference complexes, augmented max ST lead, test procedure. Large touch-buttons are ST profile, Trends and captured arrhythmias. provided on screen to guickly move from pre- All of the windows can be individually modified exercise resting ECG, through the different or closed, providing a totally customizable stages of the stress protocol, to the recovery user interface. phase, or to immediately stop the exercise should it be required.

The large screen shows important information organized into different windows during the stress test, such as: 12 lead online ECG, single



Scalable configuration

Cubestress is a highly configurable system you can design to your personal needs by choosing from different screen formats, thermal and/or laser printer options, automatic NIBP or NIBP/SPO2 monitors, electrode suction systems or inclusion of an isolation transformer.

In conjunction with the Cardioline ECGWebApp, you can plan data workflow inside your organization. Whether using a standalone system or a group of workstations, thanks to our web architecture the analysing clinician can be located anywhere inside or even outside of your building, providing maximum flexibility to your healthcare organization.

Connectivity and Data Workflow

Patient information can be uploaded from worklists through an HIS or manually entered and the final report exported in PDF format (DICOM, HL7, GDT or Cardioline ECGWebApp).

Additionally, the whole test can be stored in raw data format, enabling physicians to review, edit and print data remotely, for maximum efficiency in your stress lab.

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HD+ Acquisition unit

- Robust wireless Blue Tooth transmission through Cardioline Dongle.
- Lightweight (90 grams) for patient comfort.
- IP24 and drop proof protection.
- ECG resolution: 500/1000 samples/second/channel (user selectable).
- TTL Output.

System Specifications

- 12 lead Stress Test System.
- Secure, dedicated Blue Tooth connection through Cardioline Dongle.
- Pre-set protocols for bike, treadmill, pharmacological.
 Ability to add user defined protocols.
- Patient demographics entered directly or from worklist (DICOM, HL7, GDT or Cardioline ECGWebApp).
- Large color touch display for stress test operation.
 Display is customizable by user.
- User selectable windows: real time ECG 12 lead, compressed ECG single lead, reference 12 lead, averaged 12 lead with ST real time measurements, zoomed lead, with max ST, ST profile, trends and captured arrhythmias.
- Pre-exercise resting ECG with Glasgow algorithm for measurements and resting ECG interpretation.
- --- On line arrhythmia capture.
- Derived indexes: Framingham and Duke risk scores, Heart rate recovery index, Functional aerobic impairment.
- ---- Page or continuous printing on thermal and or laser printers.
- ----- Full exercise review and replay.
- PDF report export (DICOM, HL7, GDT or Cardioline ECGWebApp).
- Remote exercise physician review through Cardioline ECGWebApp.

Analysis

- ---- Automatic channel selection for best beat detection.
- --- Automatic Arrhythmia detection and classification.
- ---- ST/HR, Double Product.
- --- QT, QTc
- METS
 - Indexes: Duke, Framingham, FAI%, Heart Rate Recovery.
- Automatic BP and SPO2 measurements via external device (Cardioline or Suntech Tango).

Alerts



Rapid ST elevation