

CARDIO-ST

Computerized Exercise Stress Test System



FEATURES

- Cardio - ST is the combination of accurate, reliable, and field proven electro – cardiograph module developed by Concept Integrations and very low noise performance heavy duty treadmill.
- Small & Compact ECG acquisition Unit
- Stored test can be recalled and reviewed
- Provided a facility to store only results of the complete test.
- Fine control of speed of **Treadmill** by using AC drive. Low noise, jerk free change in elevation & speed, RS 232 Communication, Sleek new body style, Built for comfort, Heavy duty steel section, Cushioned deck, Thick walking belt.

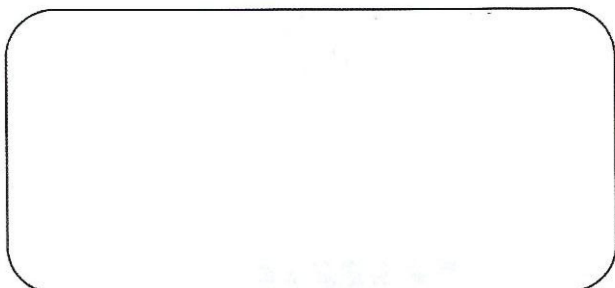
DISPLAY & REPORTING FEATURES

- Display color coded comparison with reference lead with ST Level & ST Slope Value
- QRS Detection Setting : Automatic Rhythm Leads
- Post J point Setting Facility, manual edit of J & ISO Electric Pt.
- Automatic Report Generation
- Automatic Selection of Lead with Maximum ST Depression. Automatic detection of ST Depression
- Phases : Pre - Test Supine, Standing, Hyper vent, Exercise Phase
- Exercise Protocols : Bruce, Modified Bruce, Naughton, Balke, Ellested,,Cooper and 4 User definable Customized protocol
- Constant Display on Screen : Heart Rate (HR),Blood Pressure (BP),METS,PROTOCOL,STAGE,STAGE TIME & EXERCISE TIME
- Display Option:
 - 1) 3 Rhythm leads, 12 Medians, 1Auto enlarged 2 times (Dynamic) Median
 - 2) 6 X 2 Raw 12 Lead ECG Display

- Alarms : HR,BP,ST value, THR, Arrhythmia
- Printing: Online / Offline
- Reports: Graphical presentation of ST levels of all leads for all stages, Linked medians with ST level, ST slope, & ST intervals for all 12 leads 2 times dynamic auto enlarged median facility Grid on expanded mode : 1 or 5 mm resolution
- Marker facility in expanded form
- User defined stress test impression addition / deletion facility
- Trend Report: R wave Amplitude,J Amplitudes Level,ST slope, Rate Pressure Product (RPP)
- Summary Report: Median Summary 6 Selectable Leads or all 12 leads Base Line Comparison
- HR & BP Summary
- ST Level / ST Trend Summary
- ST Average Summary Report
- Summary Report with Maximum HR, Maximum time spent, Maximum BP ,Maximum worked in METS, Body Mass Index (BMI),Total distance covered
- Real-time 12 lead ECG report at any instant during the exercise test at the press of a key.

ECG ACQUISITION SPECIFICATION

- Small & Compact ECG acquisition Unit
- Powerful Measurements & Analysis Function
- USB Compatibility USB 1.1, USB 2.0
- Power Supply USB Supply
- Dimension 75 x 105 x 35 mm
- Weight 144 g
- Gain Settings : 5, 10, 20 or 40mm/mV Selectable
- Patient Isolation : Less than 10 micro* A Leakage Current
- Defib Protection : 5 KV or 400 Joules Protected
- Input Channels : Simultaneous 12 Leads Acquisition
- Filters : Specially designed filters to remove wondering & artifacts effect for clean & clear Linked Median Report
- Input Impedance : 10 Mega ohm (Minimum)
- Common Mode Rejection: Better than 120 dB at 50 Hz
- Digital Signal: Sample Rate: 1000 Samples/ Sec.
- Processing: 12 Bits A/D Conversion, Elimination of artifacts, in all leads.
- ST Level & Slope determination in all 12 Leads.
- QRS Detection : Filtered monophasic positive composite of Auto / User Selectable leads.
- Presents Iso electric point, J - Point and ST Measurements.
- Resting 12 Lead ECG with interpretation.



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CURA HEALTHCARE PRIVATE LIMITED

PINNACLE BUILDING

No: A-32, Phase-1, MEPZ SEZ,

Tambaram Kadapperi, Chennai – 600 045, India

Ph: 91 44 6679 2600 Fax: +91 44 4214 5444

W: www.cura.in E: cura@cura.in