Stress ECG System

CardiPia 800HS

GMP CE 0123

Treadmill (WT300TSM)

Treadmill (WT300TSM)

- Less maintenance and long life cycle
- Silent and smooth movement
- Maximum speed : 20 Km/hour
- Gradient : 25 % (step 0.5 %)
- Patient loading weight : max. 220 Kg
- Running belt : 1460 x 500 mm
- Control : via USB(RS232), Bluetooth
- Emergenry stop push button

ECG Module CARDIPIA800H

ECG acquisition module (CARDIPIA800H)

- CARDIPIA800H ECG with Stress ECG I/F
- Cost effective stress ECG system
- Real time ECG display on CARDIPIA ECG
- Easy operate CARDIPIA ECG with color and touch screen

Stress ECG S/W (TRISMED Ergo)

- Simultaneous 12 Leads acquisition
- Full control of treadmill functions (USB/Bluetooth)
- Automatic arrhythmia detection and ST segment measurements
- Reliable alarm system
- Full control of all the phases of the stress test
- Automatic analysis of test results and delivery of printed reports
- All common exercise protocols included
- Easy creation and edition of custom protocols

Stress ECG S/W (TRISMED Ergo)
ECG Display and Data Analysis

TRISMED
Cardiac Diagnosis Systems
Satisfaction Superiority Specialization

Technical Specification

ECG module CARDIPIA800H

Recording Leads	12 standard leads: I, II, III, aVR, aVL, aVF , V1, V2, V3, V4, V5, V6
Recording Lead Group	Standard / Cabrera / Nehb /User defined group
Display Channel (Ch)	12 (6-ch x 2), 6 (3-ch x 2), 3 (3-ch x 1), 4 (2-ch x 2), 2 (2-ch x 1), 1 (1-ch x 1)
Sensitivity (mm/mV)	2.5, 5, 10, 20, 40, Auto

Recording Speed (mm/sec)	Auto	5,10, 12.5, 25, 50, 100
	Manual	25, 50

ECG Data acquisition	Simultaneous 12-lead ECG
Language	English / Spanish / French / Russian / Turkish / Mongolian / others by user request
Frequency Response	0.05 ~ 200 Hz (-3dB unfiltered)

Digital filter	Drift filter	Muscle Filter	AC filter	High frequency filter
	0.5 Hz	25 / 35 Hz	50 / 60 Hz	75 / 100 / 150 / 200 Hz

Calibration Signal	Sensitivity and frequency response test by using internal 1 mV	
Auto Power Switch off	After 5. 10, 15 minutes inactive operation	
Operation Power	AC	100 ~ 240VAC ±10 % ~50/60 Hz free voltage
	Battery	Built-in rechargeable battery. NiMH19.2V (2200mA) / 420 reports (150 min) per 12-ch x 1 (5 sec) auto record by fully charged battery
A/D Resolution	16 bits (0,17 μV/bit)	
A/D Sampling Rate	8,000 samples/8-lead/sec.	
Input Impedance	Greater than 100 MΩ per 10 Hz	
CMRR	Greater than 100dB	
Alarm Display and Sound	Lead-off detection for individual 10 lead, Battery level, Paper empty, HR.	
Performance	AAMI standard requirements	
Electrical Safety	Class I (Degree of protection against electrical shock) Defibrillation proof (5000VDC) based on type CF applied part Complied IEC60601-1 :2005 (3rd. edition), IEC60601-2-25: 2011, IEC60601-1-2:2007	
Patient Leakage Current	Less than 10μA	
Stress ECG I/F	Wire (RS232/USB) / Bluetooth. Treadmill/Ergometer and PC stress ECG S/W are required	
Display	Color TFT 7" LCD (Viewing area : 154.08mm x 85.92mm), Dots : 800 x 480	
Key Operation	Alphanumeric PC key by membrane and LCD touch screen	
Dimension	333 (L) x 310 (W) x 105 (H)	
Weight	3.3 Kg including battery	
Temperature	Operating : +10 ~ +40 ℃ / Transport or Storage : -20 ~ +60 ℃	
Relative humidity	Operating : 30~75 % (non-condensing) / Transport or Storage: 10~90 % (non-condensing)	
Atmosphere pressure	Operating : 70kPa ~ 106kPa / Transport or Storage: 50kPa ~ 106kPa	

Stress ECG S/W (TRISMED Ergo)

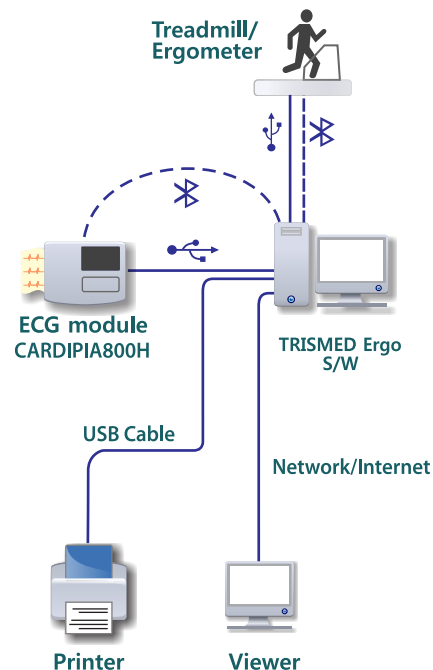|	
ECG Leads	Simultaneous acquisition and recording of 12 Standard Leads
Speed (mm/s)	25 / 50
Sensitivity (mm/mV)	5 / 10 / 20
Treadmill Control	Model WT3000TSM (USB / Bluetooth) Software controls treadmill speed and incline
Exercise Protocols	Bruce / Bruce Modified / Ellestad / Naughton / Balke-Ware / Custom
PC requirements	·Pentium 4 processor, 1 GHz or higher with minimum 1 GB RAM ·2 free USB 2.0/3.0 ports ·Bluetooth connectivity (optional wireless connection with the ergometer and/or CARDIPIA) ·Display, Mouse, Keyboard, Printer (minimum resolution 300 dpi) and HDD (at least 10 GB of free space) ·Operating System: Microsoft Windows XP/Vista/7/8/8.1 32/64 bits
Patients Management	Local Database with export / import functions
Processing	Automatic measurements of ST Segment Level and Slope Arrhythmia detection Statistical results with trend charts
System Settings	Configuration of alarms, processing settings and display parameters
Report	Multi format printed reports of test progress and results
ECG view	Multi ECG display views

Treadmill

Length and width	2070 (L) X 800 (W) X 1340 (H) mm
Weight	210 kg
Incline range	0% to 25% in 0.5% increment
Speed range	0.5 km/h to 20 km/h in 0.1 increment
Running area	1350 (L) X 500 (W) mm
Max. user weight	220 kg
Patient Security	. Emergency stop button . Magnetic security key for patient safety

※ Contents and specification subjects change without notice

Stress ECG System

Treadmill/Ergometer

ECG module CARDIPIA800H

TRISMED Ergo S/W

USB Cable

Network/Internet

Printer   Viewer

Ergometer Screen

Evolution of average cycles

Average Cycles Page

QRS Classification Area

Monitoring Area
Average Cycles Area
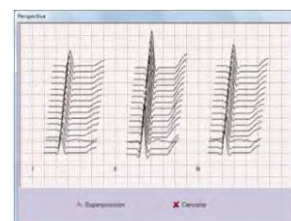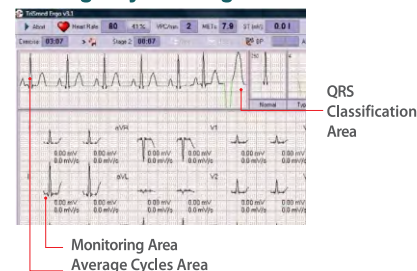
ST segment evolution report

TRISMED
Cardiac Diagnosis Systems
Satisfaction Superiority Specialization

Cat. No.: MD-Cat800HS-001 Rev.1 2015-07-17. Printed in Korea