

STRESS ECG SYSGEM

CARDIPIA800HS

- Cost effective stress ECG system
- Various selectivity for ECG acquisition module / exercise device

ECG acquisition module

CARDIPIA800H

Resting ECG built-in stress ECG interface.
Real time ECG display and print.
Easy operation.



CARDIPASS100

Pocket and light weight.
Wireless (bluetooth) interface.
Rechargeable battery operation.



Stress ECG Analysis S/W (CardiOffice)

Stress ECG Analysis Software

CardiOffice

Simultaneous 12 leads acquisition.
Full control of Ergo device (USB/Bluetooth).
Automatic arrhythmia detection.
ST segment measurements.
Reliable alarm system.
Full control of all the phases of the stress test.

Exercise device

Ergometer

Compatible Device :
Ergosana / Ergoline / Lode



Treadmill

Compatible Device :
TRISMED / Track Master



Technical Specifications

CARDIPIA800H

Recording ECG Leads	12 standard leads: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6	
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)	
Recording system	Thermal printer head (8 dots/mm) / 203 (vertical) x 508 (horizontal) dpi	
Sensitivity (mm/mV)	2.5, 5, 10, 20, 40, Auto	
Stress ECG I/F (option)	Wire (RS232) / Bluetooth, Note : Treadmill/Ergometer and PC stress ECG S/W are required	
Recording Speed (mm/sec)	Auto record	Manual record
	5, 10, 12.5, 25, 50, 100	25, 50
ECG Data Acquisition	Simultaneous 12-lead ECG	
Display	Color TFT 7" LCD (Viewing area : 154.08mm x 85.92mm), Dots : 800 x 400	
Key Operation	Alphanumeric PC Key by membrane and LCD touch screen	
A/D Resolution	16 bits (0.17 μ V/bit)	
A/D Sampling Rate	8,000 samples / 8-lead/sec	
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 (3 rd edition), IEC60601-2-25: 2011, IEC60601-1-2:2007	
Operation Power	AC	100 ~ 240VAC \pm 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 with fully charged battery
Dimension (mm)	333 (L) x 310 (W) x 105 (H)	
Weight	3.3 Kg with battery	
Temperature	Operating : +10 ~ +40 $^{\circ}$ C / Transport or Storage : -20 ~ +60 $^{\circ}$ C	
Relative Humidity	Operating : 30-75 % (non-condensing) / Transport or Storage: 10-90 % (non-condensing)	
Atmosphere	Operating : 70 ~ 106 kPa / Transport or Storage: 50 ~ 106 kPa	

CARDIPASS100

Recording ECG Leads	12 standard leads: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6	
Data Transfer I/F	USB direct connection and Bluetooth	
Alarm Visualization	Multicolor LED for Battery Status, Connected and Disconnected indication	
Key Operation	On / Off (During Bluetooth operation)	
Calibration Signal	Sensitivity and frequency response test by using internal 1mV	
ECG Data Acquisition	Simultaneous 12-lead ECG	
Input Impedance	Greater than 100 M Ω per 10Hz	
A/D Resolution	16 bits (0.16349 μ V/bit)	
A/D Sampling Rate	250Hz (2,000samples/sec) / 500 Hz (4,000samples/sec) / 1000 Hz (8,000 samples/sec)	
Frequency Response	0.05 ~ 200 Hz (-3dB unfiltered)	
Time Constant	Greater than 3.2 sec	
Performance IEC	IEC60601-2-25:2011	
Pace Maker Detection	Available	
Electrical Safety	Class I (Degree of protection against electrical shock)	
	Defibrillation proof (5000VDC) based on type CF applied part Complied IEC60601-1 : 2005 (3 rd edition), IEC60601-2-25	
Operation Power	USB	USB powered
	Battery	Built-in rechargeable battery, Li-ion 3.7V (500mA) 24hours continuous operation.
Dimension (mm)	128(L) x 79(W) x 26(H)	
Weight	110g with battery	
Temperature	Operating : +10 ~ +40 $^{\circ}$ C / Transport or Storage : -20 ~ +60 $^{\circ}$ C	
Relative Humidity	Operating : 30-75 % (non-condensing) / Transport or Storage: 10-90 % (non-condensing)	
Atmosphere	Operating : 70 ~ 106 kPa / Transport or Storage: 50 ~ 106 kPa	

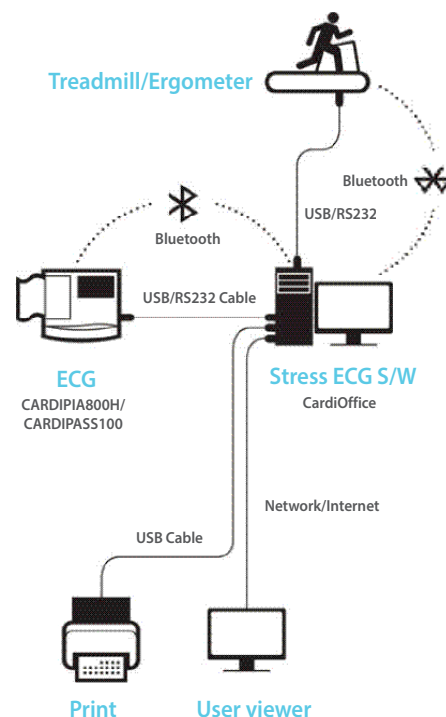
Stress ECG Analysis S/W (CardiOffice)

Lead system	Simultaneous acquisition and recording of 12 standard leads	
Recorded signal frequency range	0.05 ~ 75 Hz	
ECG amplifier	Input from CARDIPIA800HS and CARDIPASS100	
A/D converter	12 bits	
Compatible Device	Treadmill	TRISMED : (USB/ Bluetooth) Software controls treadmill speed and incline Track Master
	Ergometer	Ergosana / Ergoline / Lode
Exercise Protocols	Bruce / Bruce Modified / Ellestad / Naughton / Balke-Ware / Custom	
PC requirements	Pentium IV / 1GB RAM memory / Hard disk with at least 10GB of free space /	
	2 free USB 2.0/3.0ports / Bluetooth connectivity Operating System : Microsoft Windows XP/Vista/7/8/8.1 32/64bits	

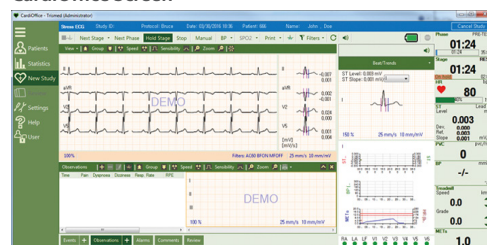
Treadmill (TRISMED)

Length and width	2070 (L) X 800 (W) X 1340 (H) mm
Weight	210 kg
Incline range	0% to 25% in 1% increment
Speed range	0.5 km/h to 20 km/h
Max. User weight	220kg
Patient Security	Emergency stop button / Magnetic security key for patient safety
Running area	1350 (L) X 500 (W) mm

* Contents and specification subjects change without notice



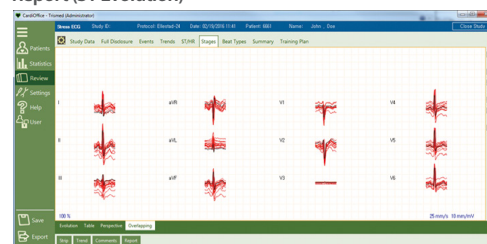
CardiOffice Screen



12-lead Average ECG



Report (ST Evolution)



Report (Trends)

