



Vega 201  
TREADMILL TEST (TMT)



## 12-LEAD STRESS TEST SYSTEM

— Accurate — Reliable — Streamlined —



## Cardiac Stress Test System

- PC based cardiac workstation combines Resting and Exercise ECG
- Easy to use stress test software with intuitive controls
- Simultaneous acquisition and display of 12-lead Raw ECG
- Standard and user programmable treadmill protocols
- Maximum ST level depression or elevation lead display
- Risk predicting Duke treadmill score
- Full disclosure data enables review and re analysis of every beat
- Detection of leads off and arrhythmias
- User configured multiple display and report format
- Online linked median printing
- System generated auto report

## Treadmill

- Compact and light weight with quiet operation and safe start
- Equipped with high torque motor and digitally controlled drive system
- Audio-visual alarms in case of malfunction of treadmill
- Emergency stop with alarm
- Requires minimal maintenance
- In-bulit voltage protection

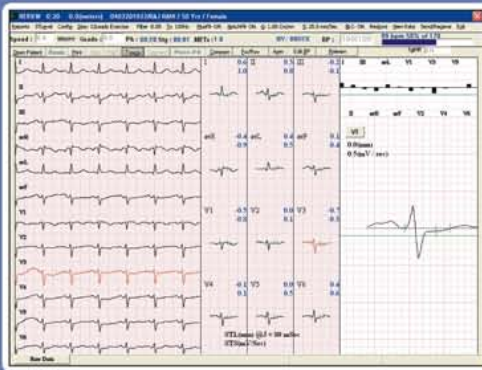


Emergency Stop Switch

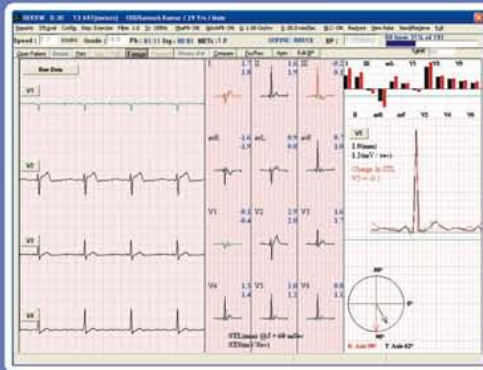


Anti slip side strips

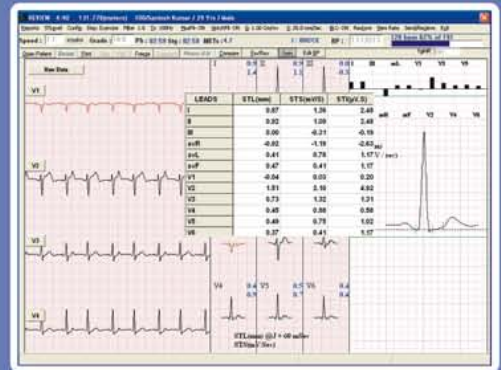
# Multiple display gives the data you'll desire . . .



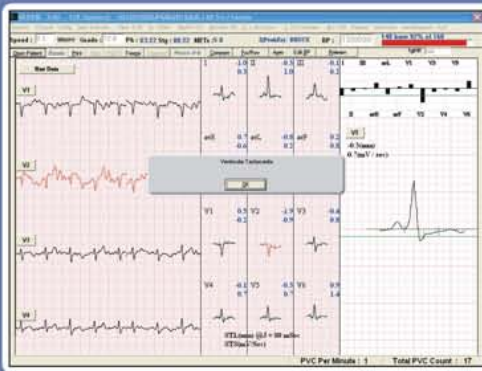
Continuous update of ST values highlighting max. ST Depression lead



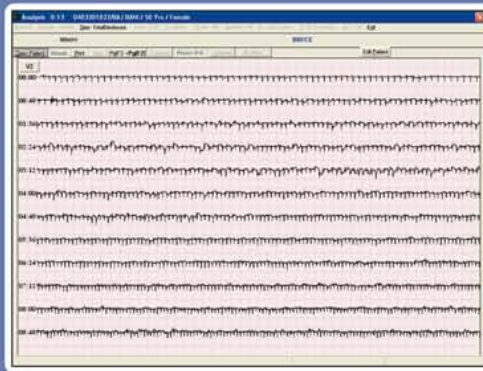
ECG & STL comparison of Current stage with Pre-Exercise stage



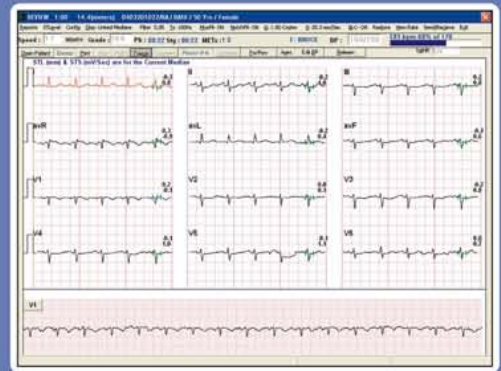
STL, STS & STI numeric values of all 12 Leads



Online Arrhythmia Detection



Full Disclosure for beat to beat analysis



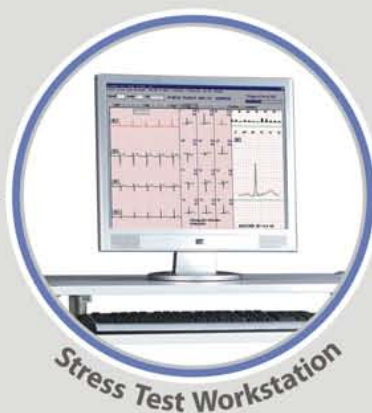
Dynamic Linked Medians



PACS Interface \*



Network Storage \*



Stress Test Workstation



PDF




E-mail

RMS Vega 201 Stress Test System have the ability to enhance your Clinical Workflow

\* Optional

# VEGA 201 - Technical Specifications

<b>ECG</b>		<b>Connectivity</b>	
Acquisition	Simultaneous 12 leads, 14 bits	Export/ communication protocol/ format	TCP/IP; DICOM, PDF
Sampling Rate	2700 samples/sec	Network Interface	File storage, Distribution & E-mail
Input Impedance	> 100M ohms	<b>Treadmill</b>	
Time Constant	3.2 Sec	Speed	0.1 to 9.3 mph
CMRR	> 100dB	Elevation	0 to 22 %
Patient Leakage	< 10µA	Belt drive motor power	3HP
Frequency Response	0.05 Hz to 100 Hz	Conveyer Belt	Anti skid
Digital Filters	50Hz, muscle tremor 20, 35 or none	Safety	Optical isolation, Emergency stop
Base line Correction	DSP technique to remove ECG wandering	Communication	RS 232
Sweep Speed	5, 12.5, 25, 50 & 100mm/ sec	User capacity	250 Kg
Sensitivity	0.25, 0.5, 1.0, 2.0 & 4.0 cm/mV	Walking area	1,321 x 508 mm
<b>ECG Computations</b>		Dimension	1900 x 710 x 1200 mm (L x W x H)
Calculated Parameters	ST-Level, ST-Slope, HR, METS, Axis etc.	Weight	120Kg
Fiducial Points	Auto/Manual	<b>Automatic NIBP (optional)</b> 	
Enlarged median lead	Configurable	Technique	Auscultatory with linear deflation
Median update Interval	10 seconds	Accuracy	Designed to meet ANSI/AAMI SP10-2002.
HR Computation	6 beats, updated every second	Protection	Independent safety circuitry monitors cuff pressure, measurement time as well as the operation of the main microprocessor.
<b>Protocol</b>		Measurement Range	Adult Systolic 50-250 mmHg, Adult Diastolic 20-150 mmHg
Standard	Bruce, Modified Bruce, Balke, Ellested, Naughton	Pulse Rate	40 to 200 BPM
Custom	Unlimited customized protocols can be created	Inputs/Outputs	Bi-directional RS232, microphone
<b>Display</b>		<b>Power requirements</b> 200 to 240 VAC, 50Hz & single phase, 10 Amperes	
Display Resolution	1024 x 768 pixels	<b>Operating conditions</b>	
ECG Display format	4 leads+medians+enlarge median, 6X2 leads+medians, 12 leads+medians+Enlarge median, 3X4+R lead, Static linked medians+R, 12leads (3.2/10sec.)	Operating Temperature	10°C to 50°C
Data display	HR, Target HR, BP, Stage Time, Test Time, Speed, Grade, METS, Protocol Name, Protocol Stage, STL, STS & Patient Information etc.	Storage Temperature	0°C to 40°C
Full Disclosure	Beat-to-beat ECG record	Relative Humidity	15 to 90% non condensing
Event Marker	Yes	<b>Safety &amp; Standards</b>	
<b>Reports</b>		Standards	
Online	12L+Medians; Linked Medians; 3X4+R; 12 Linked Medians+Enlarge Median; Summary	IEC 60601-1-1:1988, IEC 60601-1-2:2001, EN ISO 13485:2003, ISO 14971:2000, EN 980:2003, IEC 60601-1-4:2000	
Auto report	Online Reports; 6L Frontal; 6L Precordial; 12L Rhythm; Average; 12L+ Comparison; Trends; ST Tables; Comparison	Directives	
Offline	All of the above; Linked Medians Summary; Total Disclosure	MDD - 93/42/EEC EMC - 89/336/EEC	
<b>Printing</b>		<b>Cart dimension</b> 1060(H) x 815(W) x 460(D)mm	
Printer	Laser or DeskJet	<b>Minimum Computer configuration</b>	
Paper Size	A4 size	OS: Windows XP Pro/Windows7 Professional 32bit, Processor: Core2Duo or higher, RAM: 2GB or higher, 40 GB harddisk or higher, CD/DVD Optical Drive, Screen Resolution 1024x768 or higher	

**Standard Kit Options** Treadmill, Acquisition Box, Patient Cable, A4 size paper set, Disposable Electrodes, User Manual, Software CD, Trolley, Voltage Stabilizer Automatic NIBP module, PC Workstation, Printer, UPS for PC, DICOM output.

## Remote Service Program

Online technical support is available from RMS Head office. Customer has to provide internet connection.

Since R&D is a continuous process, features & specifications are subject to change without notice.



## Recorders & Medicare Systems (P) Ltd.

**H.O. & Works:** 196, Industrial Area, Phase 1, Panchkula-134113 (Haryana), INDIA.

Ph.: +91-172-2564196, 2565196, Fax: +91-172-2566196

website: www.rmsindia.com, e-mail: helpdesk@rmsindia.com

**Regd. Office:** 181/5, Industrial Area, Phase 1, Chandigarh-160002, INDIA

**Certifications: ISO 9001:2008, EN ISO 13485:2003, CE**