

# STRESS ECG Wireless / Wired

## DICOM Interoperability

PC-based stress test systems that offer maximum flexibility while providing utmost ECG quality, great usability, and excellent user experience.



# ECG Stress Test

Meeting the specific needs of each and every user, the system allows individuals to control the way diagnostic reports are acquired, displayed, measured and printed.

## KEY FEATURES

- **High Resolution ECG Processing**  
Accurate ST-measurements and Arrhythmia detection with clean traces
- **Playback**  
Allows viewing episodes that might have been missed
- **Advanced ECG Tracing**  
On-line filtering and automated baseline correction for clear and stable measurements
- **Versatility**  
Simple integration with HIS, EHR; interoperability with PACS, DICOM; and many export formats such as HL7
- **Configurations**  
Wireless & wired options available
- **Usability**  
Easy installation, intuitive, and user friendly

## ADVANTAGES:

- Automatic arrhythmia detection, print and capture
- Duke Treadmill Score
- HRR – Heart Rate Recovery Score
- Standard as well as unlimited user programmed Stress Test protocols
- CleanTrace – synthesized ECG rhythm which preserves actual heart rate, rhythm and beat shapes

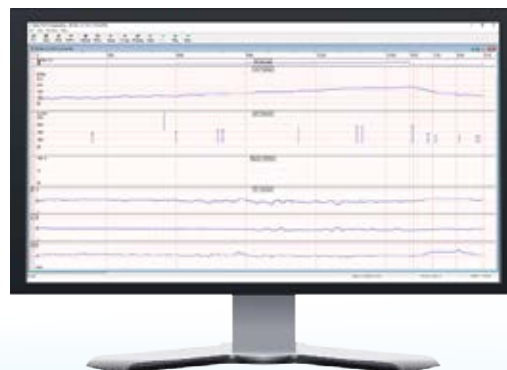
## BENEFITS:

- Full disclosure enables post processing of saved data
- Interfaces with a variety of CPET systems
- Automatic print during test
- Plain or thermal paper printing options
- Automatic control of a variety of treadmills and ergometers
- Selectable Sync Lead\*
- Echo Ready - Trigger Out\*
- Blood Pressure Equipment Interface\*

\*With selected models



Real Time



Post Processing

## 1200W Digital RF Wireless

- 16 Bit Resolution and High Sampling Rate
- Selectable Sync Lead
- Echo Ready - Trigger Out
- Blood Pressure Equipment Interface



## 1200HR High Resolution & Sample Rate System

- 16 Bit Resolution and High Sampling Rate
- 12 Lead ECG
- Echo Ready - Trigger Out (optional)



## NR-1207-3 All-In-One Wireless

- Rest, Stress, Holter, and Telemetry
- 12 Lead ECG
- Small and Lightweight



## NR-1207-E Wireless

- High Quality Resolution
- 12 Lead ECG
- Small and Lightweight



## 1200S Classic

- Cost-effective
- 12 Lead ECG



## BPM2 Blood Pressure Monitor

- Automated Blood Pressure Measurements
- For Cardiac Stress and Exercise Testing



## Norav ECG Management System NEMS:

A comprehensive management software to efficiently manage, track and organize studies and patients' data.

- All ECG tests: Resting, Stress, Long Term Monitoring, Telemetry, Heart Rate Variability, Late Potentials (SAECG), Holter Ambulatory, Ambulatory Blood Pressure, Spirometry
- Effortless integration with Hospital Information Systems (HIS) and Electronic Health Records (EHR)
- Comparison of studies
- Multi-Vendor Modality

Norav Medical's 12 lead ECG Stress Systems function independently as standalone applications or can be linked to the Norav Medical ECG Management System (NEMS).

## Medical Grade Treadmills and Ergometers

Various advanced and robust models that provide solutions for a complete Cardiac Stress Testing laboratory.



- Heavy-duty Built
- Designed Exclusively for ECG Stress Tests
- Preprogrammed / User-defined Protocols
- Controlled by Norav Software or Independently

## ECG Stress Carts

High-quality cart systems ideal for use with Stress ECG Systems.



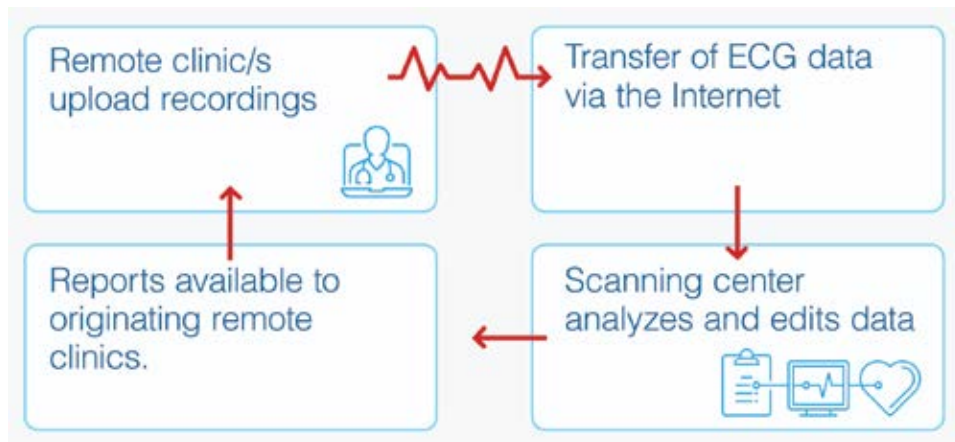
- Highly Functional and Durable
- Caster Base Plate with Rolling Wheels
- Power Sockets (EU, UK, AU, USA)
- Various Designs

## Comparison Table

FEATURES	1200W	1200HR	1200S	NR-1207-3	NR-1207-E
Lead System	Standard 12 leads				
Defibrillation Protection	Protected against 360 J discharge			Yes, with Banana cable only	
Lead OFF Detection	Yes		No	Yes	
Pacemaker Pulse Detection	From 0.1 to 2 ms at 2 to 700 mV		No	From 0.1 to 2 ms at 2 to 700 mV	
Sensitivity	5, 10, 20, 40 mm / mV				
Horizontal Scale	5, 12.5, 25, 50, 100 mm / sec			12.5, 25, 50, 100 mm / sec	
Signal Dynamic Range	± 2.4 V		20 mV	± 5 mV	
DC Max. Input	± 2.4 V		± 300 V	± 800 V	
Resolution	24 bits (0.286 μV / LSB)		12 bits (4.88 μV / LSB)	12 bits (2.44 μV / LSB)	
ECG Sampling Rate (Samples /Second)	8000 for pacemaker detection	2000	1000	250, 500, 1000	
	1000 in 12 lead mode				
	4000 in single channel mode				
Input Impedance	> 10 Mohm				
CMMR	> 90 dB				
Frequency Range (-3db)	0.05 – 150 Hz	0.05 – 300 Hz	0.05 – 150 Hz	0.05 – 260 Hz	
Low Pass Filter	20, 35, 40 Hz	20, 35, 40, 100 Hz	20, 35, 40 Hz		
Base Line Filter	Yes				
Line Noise Filter	50 / 60 Hz				
Communication Protocols	Digital RF	USB		Bluetooth v2.0 + EDR, Class 1 Up to 100m in open space	
Power Supply	2 x AA size Alkaline or rechargeable NIMH	5 V ± 5%		1 x AA size Alkaline or NIMH	
Current Consumption	-	< 200 mA ± 10%	< 100 mA ± 10%	-	
Size	140 x 95 x 50 mm 5.5" x 3.7" x 1.9"	170 x 90 x 30 mm 6.6" x 3.5" x 1.1"	128 x 75 x 27 mm 5.0" x 2.9" x 1.0"	92 x 75 x 23 mm 3.6" x 2.9" x 0.9"	
Weight (w/o battery)	350 gr (12.34 oz)	300 gr (10.58 oz)	200 gr (7.05 oz)	126 gr (4.44 oz)	
Safety Standards	IEC 60601-1; IEC 60601-2-25		IEC 60601-1; IEC 60601-2-25; EN 60601-1-2	IEC 60601-1; IEC 60601-2-47; IEC 60601-1-11	
Operating Temperature	0° - 45°C (32° - 104°F)	10° - 40°C (50° - 104°F)	0° - 40°C (32° - 104°F)	10°-45°C (50°-113°F)	
Storing Temperature	0° - 45°C (32° - 104°F)	-20° - 60°C (-4° - 140°F)	0° - 40°C (32° - 104°F)	-20° - 60°C (-4° - 140°F)	
Working Atmospheric Pressure	860 hPa ~ 1060 hPa	700 hPa ~ 1060 hPa	860 hPa ~ 1060 hPa	700 hPa ~ 1060 hPa	
Storing Atmospheric Pressure	700 hPa ~ 1060 hPa				
Humidity	5 – 95%	10 – 95%	5 – 95%		



## Cloud ECG Scanning Center



### Other Product Lines:

#### Rest 12 Lead ECG



#### Holter ECG and Blood Pressure



#### Telemetry ECG+SpO2\*



\*Optional

