

# DRE Velocity EKG

12-channel PC-based EKG

Equipment for the way *you* operate

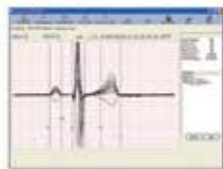
## Portable PC-based EKG solution with powerful data and analysis functions

### Affordable EKG Solution

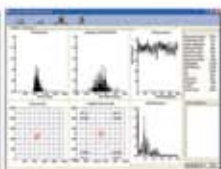
The DRE Velocity EKG includes a data acquisition module and analysis software. Simply install the software and connect the DRE Velocity EKG to your PC or laptop and you're ready to go. Great for hospitals, physician offices and laboratories.

### Features include:

- Simultaneous 12-lead acquisition
- Real-time EKG waveform display on PC screen
- Auto/manual measurement and interpretation
- Large data storage and powerful data management software
- Reports in Word, PDF and JPG formats — easily transfer via e-mail
- Stress test (optional)
- 30s-360s HRV analysis
- Advanced analysis functions: VCG, timed VCG, QT dispersion, frequency spectrum EKG (option)



Auto/manual measurement and interpretation



HRV analysis



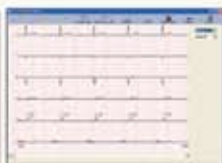
Powerful database



EKG monitoring



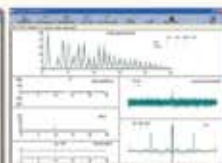
VCG



Timed VCG



QT interval dispersion



Frequency spectrum EKG

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## Technical specifications

|   |  |
|---|--|
| Dimensions                                | 148mm (l) x 100mm (w) x 40mm (h)                         |
| Weight                                    | Approx. 210 g  |
| Connection to PC                          | USB port   |
| Power supply                              | DC 5V from USB port                                      |
| Input circuit                             | Defibrillation protection built-in                       |
| Lead                                      | Standard 12 leads  |
| Acquisition mode                          | 12 leads simultaneously                                  |
| Sampling rate                             | 1000Hz   |
| A/D converter                             | 12 bits  |
| Input voltage range                       | $\pm 5\text{mVpp}$                                       |
| Time constant                             | $> 3.2\text{s}$  |
| Frequency response                        | 0.05Hz ~ 150 Hz  |
| Calibration voltage                       | 1mV $\pm$ 2%   |
| Sensitivity                               | 2.5, 5, 10, 20 (mm/mV)                                   |
| Input impedance                           | 50M $\Omega$ (10Hz)                                      |
| Input circuit current                     | $< 50\text{nA}$  |
| Noise level                               | $< 15 \mu\text{Vp-p}$                                    |
| Baseline drift filter                     | Baseline forward and backward filter<br>(patent pending) |
| Patient leakage current                   | $< 10 \mu\text{A}$ (220V - 240V)                         |
| Patient auxiliary current                 | $< 0.1 \mu\text{A}$ (DC)                                 |
| Filter:                                   |  |
| - EMG filter                              | 25Hz/35Hz/45Hz/off                                       |
| - Baseline drift filter (patent pending): | Strong/weak/off  |
| - Lowpass filter                          | 150 Hz/100 Hz/75 Hz                                      |
| - AC filter                               | 50 Hz/ 60 Hz   |
| CMRR                                      | $> 110\text{dB}$   |
| Rhythm lead                               | Single lead or three leads selectable                    |
| Safety standard                           | IEC II/CG  |

## PC Requirements

|                  |                                    |
|------------------|------------------------------------|
| Operating system | Windows 2000 or Windows XP         |
| CPU              | Pentium P4, Celeron D 310 or above |
| RAM              | 256 MB or above                    |
| HDD              | 40G or above                       |
| Interface        | At least 2 USB ports free          |