

# Cardiac Monitoring

## NIDEK ECG Machines

ECG-701 | ECG-703 | ECG-712

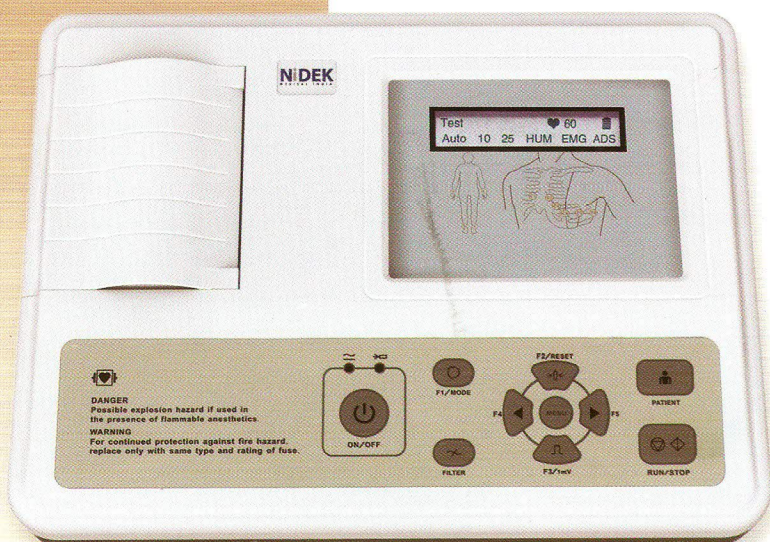
Portable, Precise, User-friendly

Nidek India's Electrocardiograph machines are one of the basic diagnostic tools for cardiologists and general physicians.

They can be used to perform routine diagnostic checks. The machines are simple to use and precise, thus, making the diagnosis easy to perform and analyze.

Nidek's ECG machines are available in several models suited to the physicians and patient's needs and requirements.

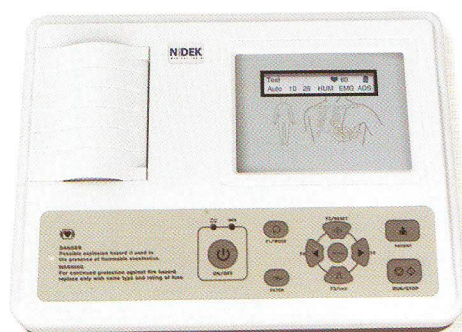
Product descriptions appear in the following pages.





## ECG-701 Series

### Single channel ECG machine



#### Key Features

- Single channel ECG machine with measurement
- Manual / Auto / Arrhythmia Analysis Modes
- Built in rechargeable NI-MH battery
- Adapt to 110-230V, 50 / 60Hz AC power supply
- Built in RS232 interface (ECGNET software optional)

#### Specifications

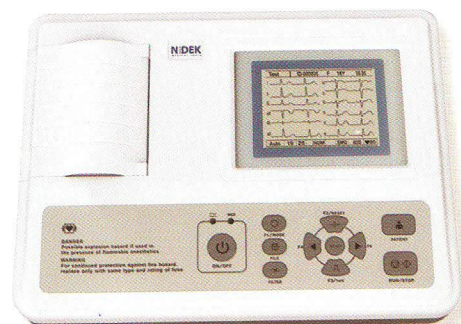
Display	LCD 20 X 2
Paper	50mm X 20m roll / fold paper
Battery	12V (1500mAH) Ni-MH battery
Dimension	285 X 265 X 72 Unit (mm)

## ECG-703 Series

### Three channel ECG machine

#### Key Features

- 3 channel ECG machine with interpretation
- Manual / Auto / Arrhythmia Analysis Modes
- 80mm 3-ch recording with rhythm lead
- Built in rechargeable Li-Ion battery
- Adapt to 110-230V, 50 / 60Hz AC power supply
- Real-time ECG waveform, cases save / replay
- Built in USB / RS232 interface (ECGNET software optional)



#### Specifications

Display	LCD 3.8", 320 X 540
Paper	80mm X 20m roll / fold paper
Battery	14.4V (2200mAH) Li-Ion battery
Dimension	285 X 265 X 72 Unit (mm)

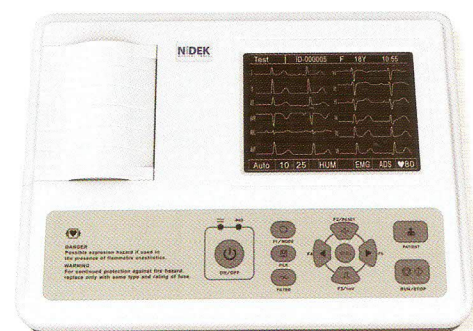


## ECG-703A Series

### Three channel ECG machine

#### Key Features

- 3 channel ECG machine with interpretation
- Manual /Auto / Arrhythmia Analysis Modes
- 80mm 3-ch recording with rhythm lead
- Built in rechargeable Li-Ion battery
- Adapt to 110-230V, 50/60Hz AC power supply
- Real-time ECG waveform, cases save/replay
- Built in USB / RS232 interface (ECGNET software optional)



#### Specifications

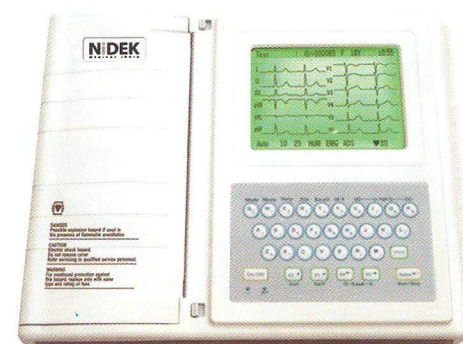
Display	LCD 5.7", 320 X 540
Paper	80mm X 20m roll / fold paper
Battery	14.4V (2200mAH) Li-Ion battery
Dimension	285 X 265 X 72 Unit (mm)

## ECG-712 Series

### Twelve channel ECG machine

#### Key Features

- Portable 12 channel ECG machine
- Manual / Auto / Arrhythmia Analysis Modes
- 5.7 inch LCD
- Alphabetic keyboard for patient information
- Built in rechargeable Li-Ion battery
- Adapt to 110-230V, 50 / 60Hz AC power supply
- Real-time ECG waveform, cases save / replay
- Built in USB / RS232 interface (ECGNET software optional)



#### Specifications

Display	LCD 5.7", 320 X 240 160 X 32
Paper	210mm X 216mm / 20m roll / fold paper
Battery	14.4V (4400mAH) Li-Ion battery
Dimension	320 X 270 X 66 Unit (mm)



## Standard Specifications

Lead	Standard 12 leads
Acquisition	Simultaneous 12 leads
Resolution	12bit / 1000Hz
Operation mode	Manual / Auto / Analysis Modes
Filter	AC, EMG Filter
Drift filter	Anti-Drift System
CMRR	$\geq 100\text{dB}$ , with AC Filter
Input circuit	Floating, Protection against defibrillator effect
Input circuit current	$\leq 0.1 \mu\text{A}$
Input Impedance	$> 50 \text{ M}\Omega$
Patient current leakage	$< 10 \mu\text{A}$
Calibrating voltage	$1\text{mV} \pm 3\%$
Voltage tolerance	$\pm 500\text{mV}$
Time constant	$> 3.2\text{s}$
Frequency response	$0.05\text{Hz} \sim 160\text{Hz}$
Noise level	$\leq 15 \mu \text{V}_{\text{p-p}}$
Threshold	$\leq 20 \mu \text{V}$
Paper speed	6.25, 12.5, 25, 50mm / st ( $\pm 3\%$ )
Sensitivity	Auto, 2.5, 5, 10, 20, 40mm/mV
Recorder	High resolution thermal printer
Safety standard	GB9706.1-2007, IEC Class I, Type CF



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