



NiDEK
MEDICAL INDIA



ECG 712 PLUS

Digital 12-Channel ECG Machine

- QWERTY keyboard operation
- TOUCH SCREEN intuitionistic display

www.nidekindia.com

TECHNICAL SPECIFICATIONS

SIZE AND WEIGHT

- Size	: 400mm x 33mm x 146mm{W X H X D}
- Weight	: ≤6 Kgs

DISPLAY

- Type	: 8" Color TFT LCD
- Resolution	: 800*600 Pixel

POWER SUPPLY

- Input voltage	: AC : 100V - 24 DV. 50 Hz / 60 Hz
- Input Power	: 60 VA
- Standard Comply with IEC 60601 -1 & IEC 60601-1-2	

BATTERY

- Type	: 11.1 V 4Ah/2A rechargeable lithium battery
-Operating time	: Used continuously for 3/1.5 hours, print 400/200 shares of cardiogram.
- Indication of battery capability	: With
- Keyboard	: Standard PC 104(position)
- Touch Screen	: Option
- Network connector	: 1 x RJ - 45 socket
- USB connector	: 2 x USB Host (support hot- swap)
- SD card	: 1 x Standard SD card socket

DATA STORAGE

- Fixed Memory	: 100 groups of ECG data
- Optional Memory	: SD card or u disk
- Storage mode	: Background storage automatically
- Storage format	: xml

RECORDER

- Recording way	: Thermal dot array
- Horizontal resolution	: 40 dots/mm
- Vertical resolution	: 40 dots/mm
- Recording speed	: 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, errors: ± 3%.
- Recording linearity	: ≤ 0.50mm/30M
-Paper length	: 295 mm/280mm
-Paper width	: 21mm/216mm
-Paper type	: Folded thermo sensitive printing paper
-Reel thermo sensitive printing paper	
- Recording precision	: ± 5% (x axes) ± 5% (Y axes)
- Recording type	: more than 10 kind of printing methods. (3x4, 3x4+1R, 3x4+3R, 6x2, 6x2+1R, 12x1 Manualm3 path, Manual 6path, Manual 12 path, single-lead rhythm, three-leads rhhthm and so on).

MEASURE AND DIAGNOSIS OF ECG WAVEFORM

- HR range	: 30 bpm -350 bpm
-HR precision	: ± 1 bpm (10 s average)
-Coefficient error	: ≤ 5%, 0.333
- Measure info of ECG waveform	: P time limit, PR interphase, QRS time limit, QT interphase, Rv5swing, SV1 swing, RV6swing, SV2swing, RV5+SV1 swing, Paxis, QRS axis,
- Taxis. Diagnosis analyze	: ≥ 140 kinds

DISPLAY OF ECG COLLECTION

- Single input	: 12-lead, defibrillator proof, Pacemaker pulse rejection
- Degree of protection against electric shock	: 4000V, Type CF applied par
- Polarization voltage resistance	: ≥ +500mV
- Respons to frequency	: 0.05Hz- 150Hz(-3dB)
- Baseline filter	: 0.05 Hz, 0.15Hz, 0.5Hz
- ECG filter	: 25Hz, 35Hz, 45Hz
- Lowpass filter	: 75Hz, 100Hz, 150Hz
- Gain accuracy	: ± 5 %
- Time base selection	: 5mm/s, 6.25 mm/s, 10mm/s, 12.5 mm/s, 25mm/s, 50mm/s
- Input impedance	: ≥ 50M Ω
- Current of input loop	: ≤ 50 nA
- Patient leakage current	: ≤ 10 μA
- CMRR	: ≥ 109 dB (with AC filter)
- Time for response to wave displaying	: ≤ 5s
- Time for baseline recovered after switching leads	: ≤ 1s
- Defibrillator - proof	: 5000V360J
- Recovering time for defibrillator electrode polarization	: ≤ 10s
- Energy reduce	: ≤10%
- Voltage reduce	: ≤1V
- Standard comply with	: IEC 60601-2-50

ENVIRONMENTAL SPECIFICATIONS

- Operating	
- Temperature	: (5 ~ 40) C
- Relative humidity	: 25 % ~ 93 % (non condensing)
- Atmospheric Pressure	: (700 ~ 1060)hPa

TRANSPORTATION AND STORAGE

- Temperature	: (-20~ +50) C
- Relative humidity	: 25 % ~ 95 % (non condensing)
- Atmospheric Pressure	: (500 ~ 1060)hPa



* Specifications subject to change without prior notice.



NIDEK MEDICAL INDIA PRIVATE LIMITED

Head Office: 238B A.J.C. Bose Road, Kolkata 700020, Tel: (033) 4017 7000 (30 Lines), Fax: 91 (033) 2289 4217

Delhi: 238 Ansal Chambers II, 6, Bhikaji Cama Palace, New Delhi 110066, Tel: (011) 2616 5742, 93501 83222, 93135 77444

Chennai: AE - 32. 7th Street, 10th Main Road, Anna Nagar, Chennai 600040, Tel: (044) 4266 3662, 93808 06777, 93459 70044

Mumbai: 211 B, Damji-SHamji Industrial Estate, 9 LBS Marg, Kurla (W), Mumbai 400070, Tel: (022) 4215 5441 / 90226 92244

Hyderabad: H. N0-3-41-66, Sri Laxmi Nilayam, South Block, West Marredpally Secunderabad 500026, Tel: 93468 32266

Lucknow: 4/11A, Ground Floor, Vibhav Khand, Gomti Nagar, Lucknow-226010, Tel : 93361 20941

Nagpur: 93738 38883, **Ahmedabad:** 93284 22333

Email: sales@nidekindia.com, Website: www.nidekindia.com