



NiDEK
MEDICAL INDIA



ECG 712 PLUS

Digital 12-Channel ECG Machine

- QWERTY keyboard operation
- TOUCH SCREEN intuitionistic display

TECHNICAL SPECIFICATIONS

SIZE AND WEIGHT

- Size : 400mm x 330mm x 146mm{W X H X D}
- Weight : <6 Kgs

DISPLAY

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

POWER SUPPLY

- Input voltage : AC : 100V - 240 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/2Ah rechargeable lithium battery
- Operating time : Used continuously for 3/1.5 hours, print 400/200 shares of cardiogram.
- Indication of battery capability : With

INPUT/ OUTPUT SPECIFICATION

- 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, pdf

RECORDER

- Recording way : Thermal dot array
- Horizontal resolution : 40 dots/mm
- Vertical resolution : 8 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 : 210mm/216mm
- Paper type : Folded thermo sensitive printing paper
- Reel thermo sensitive 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 -lead rhythm 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

- Signal input : 12-lead, defibrillator proof, Pacemaker pulse rejection
- Degree of protection against electric shock : 4000V, Type CF applied part
- Polarization voltage resistance : ≥ +500mV
- Response to frequency : 0.05Hz- 150Hz(-3dB)
- Baseline filter : 0.05 Hz, 0.15Hz, 0.5Hz
- ECG filter : 25Hz, 35Hz, 45Hz
- Low pass filter : 75Hz, 100Hz, 150Hz
- Gain Selection : 2.5, 5, 10, 20, 10/5, AGC(mm/mv)
- 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 : ≤ 10μA
- CMRR : ≥ 109 dB (with AC filter)
- Time for response to wave displaying : ≤ 5s
- Time for baseline recovered after switching leads : ≤ 1s
- Defibrillator proof : 5000V 360J
- Recovering time for defibrillator electrode polarization : ≤ 10s
- Energy reduce : ≤ 10%
- Voltage transfer : ≤ 1V
- Standard complied with : IEC 60601-2-51

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.



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