



progetti
Medical Equipment Solutions

EPG 3M

3 channels Electrocardiograph



SD-CARD



BARCODE SCANNER



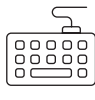
LAN PORT



USB PRINTER



U-DISK



KEYBOARD



- 7 inch TFT color display resolution 800x480 foldable 0-90°
- Large storage capacity up to 1000 exams
- Alpha-numeric keyboard with shortcut keys, efficient in operation
- Long lasting and rechargeable lithium battery
- Ergonomic design with built-in handle
- Data access with HIS/PACS/EMS system based on FTP/DICOM/HL7 standard protocol
- "Sleep / Wake-up" function for energy save and speedy start



ELECTROCARDIOGRAPH



EPG 3M

TECHNICAL SPECIFICATIONS



Main features

High resolution digital electrocardiograph capable of acquiring 12 ECG channels which are displayed and recorded simultaneously.
Automatic ECG acquisition with measurements and interpretation.
ECG waveform freeze and playback up to 300seconds.
Re-analysis mode: 10s of data acquired in automatic mode and print interpretation.
Timed sampling mode that starts recording once arrhythmia is detected.
Pacemaker detection settings.
Direct USB connection with external printer for A4 format printing.
Export data in PDF, JPG, BMP, XML, SCP, DICOM, FDA-XML format.

Technical features

Safety: IEC Class I Type CF.

Environmental: Operational temperature +5°C - +40°C, relative humidity ≤80%.

Transport / storage temperature -20°C / +55°C, relative humidity ≤95%

Atmospheric pressure 50 – 106 kPa.

Dimensions: 310x244x65 mm.

Weight: 2.4 Kg including battery.

Power supply: AC 100 – 240V, 50/60 Hz, 0.17 – 0.4 A.

DC Rechargeable lithium battery, 14.4 V / 2600 mAh, working time 500 exams or 7 hours of continuous operation without printing.

Ergonomics: integrated carrying handle, foldable display 0° - 90°.

Keyboard: alphanumeric with function keys and shortcut commands to improve efficiency in routine operations.

Interface: standard USB, Master USB, LAN, SD-card.

Peripherals: USB, barcode reader, USB printer, keyboard, mouse, hard drive.

Display

Type: graphic color TFT LCD

Dimensions / resolution: 7", 800x480 pixels, 152x85mm

Information: can show 12 ECG channels simultaneously, operation mode, data patient (name / ID / age / sex), heart rate, filters, ECG speed / amplitude, memory, alarm messages, date / time, level battery, peripheral connection.

Messages: single contact quality electrode error, paper end, battery low.

Functional features

Leads system: Support Standard lead system, Posterior wall lead system, R-Pectoral lead system, R-pectoral/PW lead system, Up intercostal lead system, Down intercostal lead system, Cabrera lead system and User-defined lead name.

Defibrillation protection: device and cable protected against defibrillation.

Acquisition: simultaneously 12 leads, background grid

Interval: ±5mVpp, time constant ≥3.2s

Frequency response: 0.05 – 150 Hz

Input impedance: ≥50MΩ

Input circuit current: ±0.05μA

Polarization voltage: ±400 mV

CMRR: ≥100dB (AC filter off), ≥120dGB (AC filter on)

A/D converter: resolution 12 bit

Sampling: 2000 Hz/channel, 16.000 sampling/sec.

Pacemaker detection: width ≥±2mV ≥0.1ms with automatic filter, 1000 samples/channel

Sensitivity: 1.25, 2.5, 5, 10, 20, 40 mm/mV, 10/5, 20/10 mm/mV, AGC

Speed: 5, 6.25, 10, 12.5, 25, 50 mm/sec.

Recording mode: 3×4, 3×4+1R, 1R

Working mode: automatic with pre-sampling, automatic real time, trigger, periodic sampling.

Analysis and interpretation: parameters calculation and automatic interpretation. Algorithm verified on CSE Diagnostic Database.

Analysis and interpretation validated in accordance with IEC 60601-2-25

Functions: ECG sampling, DEMO mode and calibration mode.

Filters: EMG: OFF, 20/25/30/35/40/45. AC: OFF, 50/60Hz, Lowpass: 75, 100, 150 Hz

Base line: 0.05, 0.15, 0.25, 0.32, 0.5, 0.67 Hz

System check: self-test for network board, printer, ECG acquisition, battery status, memory, keyboard and buttons, display.

Local memory: archive up to 1.000 ECG in DICOM, PDF, XML, JPG, BMP format.

Data Transmission: exams can be exported to PC via SD card, U-disk, LAN, USB cable, patient information can be retrieved from the archive and ECG data can be interfaced to PACS via standard DICOM® protocol.

Wireless data transfer: optional, can support ECG transmission to Bluetooth ECG and PC-ECG or ECG data management software, can support data acquisition of patient's info from server.

Communication: IP/LAN, FTP, DICOM®, HL7, Work-list.

Recorder

Type: built-in, for thermal paper roll

Resolution: 8 dot/mm vertical, 40 dot/mm horizontal

Width: 80mm

Standard accessories:

10-wire patient cable, precordial and peripheral electrode set, Gel bottle, thermal paper roll, power cable, rechargeable battery, user manual.

Optional accessories:

PC software, trolley, barcode scanner, SD card.



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ISO 13485:2016 CERTIFICATION



Quality system ISO certified

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