**SPECIFICATIONS**

**ECG leads**
- 12 channel simultaneous ECG and acquisition

**Dimensions**
- 300 (W) x 299 (H) x 123 (D) mm, Approx. 4 kg

**Record**
- Auto, Rhythm, Discordance, Arrhythmia Detect

**Recording channel**
- 3CH+1VR+, 3CH+3RV+, 6CH+1RV, 12CH, 12CH Long time (1 min, 3 min, 5 min, 10 min)
- and special reports (text, guide, vector)

**Sensitivity**
- 2.5, 5, 10, 20, auto (1-avVF: 10, V1-V6: 5) mm/mV

**Sampling rate**
- 2,000 samples per second

**Filters**
- AC (50/60 Hz, ±0.5 dB or better), Muscle (25–35 Hz, ±3 dB or better), 
  - Baseline drift (0.05, 0.1, 0.2 Hz, ±3 dB or better), Low pass filter (off, 40 Hz, 100 Hz, 150 Hz)

**Display**
- 7" color TFT wide display (850 x 480)

**Monitor display**
- HR, ID, date, AC or battery status, sensitivity, speed, number of saved data, 
  - printing form, rhythm lead

**User Interface**
- Touch screen, hot key, barcode scanner, USB keyboard

**Patient data**
- ID, name, age, sex, height, weight, smoke, race

**Basic measurement**
- Heart rate, PR, QRS, QT/GQT, P-R-T axis

**Recorder**
- Thermal print head: 88 paper
  - Report papers: (width x length)
    - A4: 215 mm (8.5") x 297 mm (11.7")
    - Letter: 215 mm (8.5") x 295 mm (11")
  - Resolution: 8 dots/mm
  - Height: 16 dots/mm

**Electrical**
- Input resistance: 20,000,000 ± 10% Impedance: More than 50 MΩ
- Input voltage range: ± 5 mV / CMRR: Greater than 105 dB
  - DC offset voltage: ± 400 mV
- Patient leakage current: < 10 μA / Frequency response: 0.05 – 150 within ±3 dB
  - Isolated, defibrillation and ESU protected

**Signal quality control**
- Pacemaker pulse detection lead fault detection, signal saturation detection

**ECG data storage**
- Internal storage for 200 ECGs and external USB flash drive

**Power**
- Input: 100-240 VAC, 2-1 A, 50/60 Hz
  - Output: 60 VA max

**External link**
- LAN, 2 USB Port

**File format**
- PDF, JPG, XML, MIFER, DCM

**Battery**
- Type: Replaceable and rechargeable Lithium ion
  - Capacity: 6 hours of continuous operation without printing or
  - Approx. 3 hours of 200 ECG printouts

**Communication**
- RS232, LAN, WIFI, USB flash drive, USB barcode scanner

**Safety conformity**
- Class I, Type CF, CE, FDA, KFDA, CFDA, NCC

**Environment**
- Operating humidity: 30–85% / Operating temperature: 10–40°C

**Standard accessory**
- Power cord (1 ea), Patient cable (1 ea), ECG clips (10 ea), Disposable electrodes (1 pouch),
  - Chart paper (1 ea), Operation manual (1 ea), Diagnosis guide (1 ea),
  - Rechargeable battery (1 ea), USB WIFI dongle (1 ea)

**Options**
- Cart, Hanger, DICOM 3.0

* Specifications can be changed without prior notification.
Cardio7

Explore powerful functions and intuitive operations

- Touch screen operation
  Full alphanumeric keyboard support

- Convenient USB function
  External storage, barcode scanner, WiFi converter, external keyboard

- Spirometer function available (Optional)

- Extended data storage (200 cases)

- Various standard file formats

- Auto key function
  One touch operation for analyzing, storing and printing result within 3 seconds.

- Direct and bidirectional connectivity with PACS via DICOM 3.0 (Optional)

Full Disclosure Function
- Disclosure function shows 5-minute ECG data which was already saved on the internal storage. This function is used to check the suspected ECG data which might have been missed.

1. Press any point of the LCD screen for over 3 seconds to execute this function.
2. The screen will be changed to the ‘Disclosure Window’ which shows the 5-minute stored ECG data of the selected rhythm lead.
3. Select an area of interest of diagnosis.
4. Click the ‘10-second’ button on the left corner of screen.
5. You will see the 12CH ECG of the selected data.

Long Term Recording & Automatic Arrhythmia Detection

HRV Result
Patient Level: 1 - 9 (Normal: 9)

HRV Analysis
- Time Domain Analysis
  - Mean HR (bpm): Average HR / Standard Range: 40 - 100
  - SDNN (ms): Standard Deviation (95% CI)
    - Standard Range: 74.8 - 220.5
- Frequency Domain Analysis
  - LF (ms^2): Low Frequency / Standard Range: 6.6 - 8.6
  - HF (ms^2): High Frequency / Standard Range: 3.8 - 7.1

Arrhythmia Result
- Pause / Irregular / R on T / PVC Bigemin / PVC Trigemin / PVC Couple / Short Run of PVC / Ventricular Tachycardia / Ventricular Rhythm / PVC Premature Ventricular Contraction / Ventricular Asystole / Ventricular Bradycardia

Special Beat Reports for More Detailed and Precise Interpretation
- Text
- Guide
- Vector

Detailed measurement data for professional interpretation.