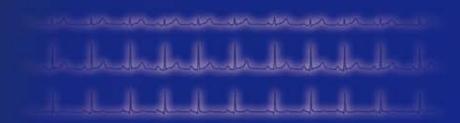


12 channel digital electrocardiograph with analysis

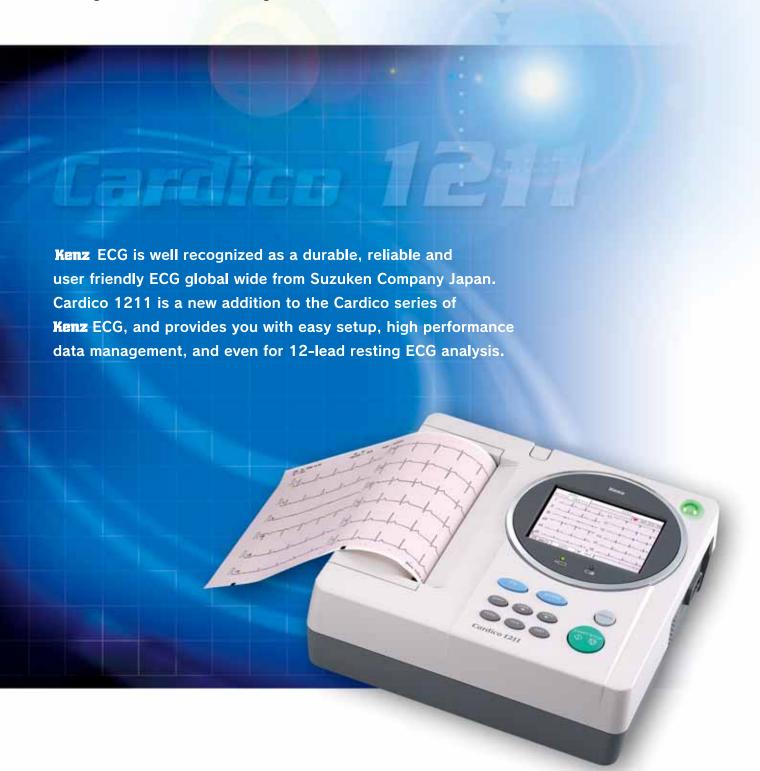




Network ECG System

ECG management encompassing data management and network environment is now required in Physician's Offices, Clinics and Hospitals more than ever.

Suzuken contributes to your reliable diagnosis and data management in electrocardiogram.



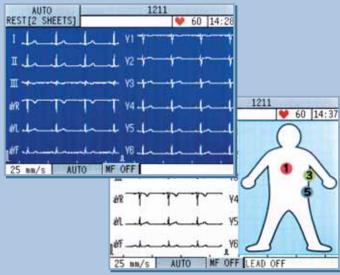
- High Resolution, Wide Viewing Angle Touch Screen Color Display
- Large Memory for Easy Filing
- Network ECG for Paperless Data Management
- New Arrhythmia Screening Functions and Brugada Syndrome Algorithms

Display

The Cardico 1211 has a new color display that dramatically improves direct diagnosis. Its 5.7 inches Backlit TFT display is a high-resolution and wide viewing angle display for electrocardiograms that offers various display modes such as color indication of Arrhythmia and LEAD OFF alarm.

The screen on the right is displayed when a LEAD OFF is detected.





LEAD OFF Alarm

Operation

The touch screen allows easy setup and patient information entry. This screen functions minimize button actions and make operating faster.



Memory and Digital Filing

The built in memory can store up to 1000 records and another 1000 records can be added using the optional Kenz Filing Card. Each record, in either memory can be recalled to edit the results and patient information. Without LAN communication, Kenz Filing Card can be used as a manual data transmission medium to a personal computer for ECG data management using the optional software, Data Viewer CVS-02.

| FILING MODE | | ME | MEMORY DATA MANAGE | | | 14:5 | 56 |
|-------------|-------------|--------|-----------------------|--------|------|------|----|
| DATE | E (M/D/Y) | 2/20/0 | 08~ 2/2 | 0/08 | | 1/ | 2 |
| No. | ID | SEX | DATE | TIME | TYPE | SAIT | M |
| 0001 | 1234567890 | 12 | 2/20/8 | 10:51 | REST | | Ī |
| 0002 | 1234567890 | 13 | 2/20/01 | 10:51 | REST | П | ī |
| 0003 | 1234567890 | 14 | 2/20/0 | 10:50 | REST | | |
| 0004 | 1234567890 | 15 | 2/20/0 | 310:49 | REST | П | _ |
| 0005 | 1234567890 | 16 | 2/20/0 | 10:49 | REST | | |
| 0006 | 1234567890 | 17 | 2/20/01 | 10:47 | POST | | 7 |
| 0007 | 1234567890 | 17 | 2/20/0 | 10:47 | REST | | _ |
| 8000 | 1234567890 | 18 | 2/20/01 | 10:45 | REST | 100 | 7 |
| PRIM | IT OUT LIST | (1) | START | /STOP | | _ | ī |
| | ▼ SPE | FI | D SEL | LAST | NEXT | MEN | U |

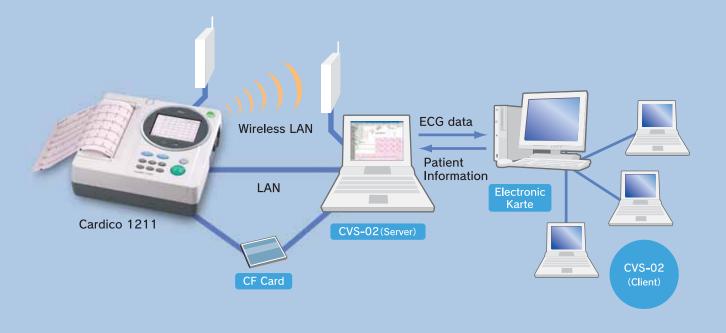
Network ECG

The Cardico 1211 comes with a Local Area Network (LAN) port.

As a Network ECG, Cardico 1211 enables functional patient data management and electronic filing with the optional Kenz ECG Data Viewer CVS-02.

Kenz ECG Data Viewer CVS-02 can be used alone or in conjunction with an Electronic Medical Record system or Hospital Information System.

Wireless Transmission is possible by using locally purchased LAN module.



Patient Information can be imported from magnetic cards*, bar codes* and hospital information systems**

*ID card reader and bar code reader with RS232C connecter is required.

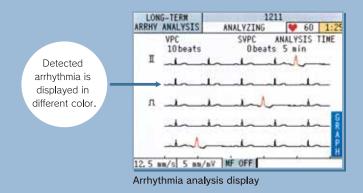
**Modification of Data Viewer CVS-02 and hospital information system may be required.

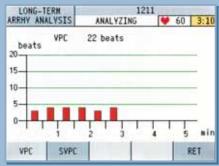


Arrhythmia

Versatile arrhythmia recording functions were newly developed for the latest Kenz Cardico series such as Arrhythmia screening and summary functions.

◆Arrhythmia Summary Function in Long-Term Mode is for arrhythmia patients to make the full disclosure and summary report for Supra-Ventricular Premature Contraction, Ventricular Premature Contraction and Atrial Fibrillation base on II and V1 Lead during the set period of one to five minutes and unlimited time.

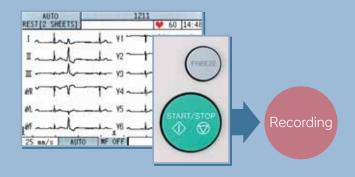




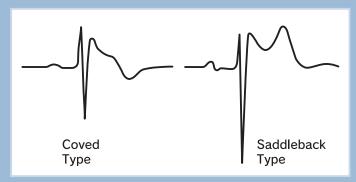
VPC (Ventricular Premature Contraction) trend display

◆Arrhythmia Screening Function in Pre-Check Mode detects and record automatically for the first 30 seconds depending on setup in case an Arrhythmia is detected.

◆Quick Arrhythmia Recording Function enables manual record and printout by pressing Freeze and Start key when the display shows an Arrhythmia in Auto Mode.



♦New Algorithm to analyze Brugada Syndrome



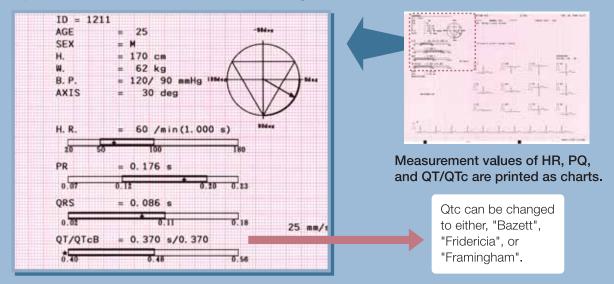
A Type : Coved Type ST Elevation
B Type : Saddleback C Type ST Elevation
C Type : Coved Type mild ST Elevation

The Brugada syndrome is suspected as being one of the risk factors for sudden death among, mainly, males in East Asian genetic trait. The Brugada syndrome is a sudden ventricular fibrillation (VF) diagnosed by ECG of right bundle block with a characteristic ST elevation.

The three analysis types of Brugada electrocardiogram are included to the new Cardico 1211.



◆Graphic Result Format for Visual diagnostic



♦Multiple Print Formats



- **◆**Daily Report : Up to 200 records patient information (ID, Sex, Age), date, time, Analysis summary code can be used to print a daily summary.
- ◆Recording Paper: Internal double Z-folded (210mm×36mm) and external Z-folded (210mm×60mm) recording paper can be used for A4 size print.
- ◆High Speed Printout of Analysis Report : Analysis report can be printed within 7 seconds (50mm/sec) after acquiring the electrocardiogram at the maximum speed setting.

Standard Accessory

| AC Power cable — | – 1 pc |
|---|----------|
| Accessory bag | —1 рс |
| Limb electrode CR-2020 | |
| (4pcs/box) ———————————————————————————————————— | — 1 box |
| Chest electrode CE-06 Blue | |
| (6pcs/pack) | - 1 pack |

| ●ECG cream (70g) ———— | 1 | рс |
|--------------------------------|----|----|
| Patient cable PC-109 | -1 | рс |
| Recording paper | | |
| (Z-fold type P210×36 Z) ——— | 1 | рс |
| Operation manual ———— | 1 | рс |
| Physician's criteria guide ——— | 1 | pc |

Option

- ECG data management software CVS-02
- Grounding wire
- Kenz Filing Card
- Recording paper (P210 x 60Z-DM2)

Specifications

| ■ Input Section | | | | |
|--|---|--|--|--|
| Input Impedance | Over 10 MΩ | | | |
| Leads | Standard 12 leads and Cabrera leads | | | |
| Patient Input | One patient | | | |
| Common Mode Rejection | Over 100 dB | | | |
| Polarization Voltage | Over ± 500 mV | | | |
| F B | 0.05~100 Hz 90~110% | | | |
| Frequency Response | 101~150 Hz 70~110% | | | |
| Time Constant | Over 3.2 s | | | |
| Patient leakage currnet | Less than 10μA | | | |
| Filter | Digital filter HUM · Drift · Muscle (35 · 25 Hz) | | | |
| A/D Conversion | 13 bit | | | |
| | 1 ms | | | |
| Sampling Rate | Supplementary function for pacemaker detection 100 µs | | | |
| Defibrillator protection | To 5,000V, 400J | | | |
| ■ Display Section | | | | |
| Display System | 5.7 inches Backlit Color TFT Display 320 × 240 dots | | | |
| ECG Display | 4 · 6 · 12-channel simultaneous display | | | |
| Recording Section | The original cirriates researching | | | |
| Recording Type | Thermal Array (8 dot/mm) | | | |
| Recording Sensitivity | 2.5 · 5 · 10 · 20 mm/mV, Auto selection | | | |
| Recording Speed | 10 · 12.5 · 25 · 50 mm/s | | | |
| Recording Paper | A4 size paper, A4 size Z-fold paper | | | |
| Safety | A4 Size paper, A4 Size Z-Iolu paper | | | |
| Safety | Class I type CF | | | |
| Water Proof Protection | Non water proof device (IPXO) | | | |
| Water Proof Protection | | | | |
| Flammable Anesthetic | Not applicable Gas Protection | | | |
| Ma-d | | | | |
| Mode of Operation Continuous operation | | | | |
| Power Source | 110.040\/40. 50/00.11. 150\/4 | | | |
| Power Supply | 110-240VAC 50/60 Hz 150VA | | | |
| FUSE | SOC Corp. ET 3.15A | | | |
| Rechargeable Battery | Nickel Hydride battery DC 12 V 3,700 mAh | | | |
| Panasonic model | HHR-38AF25G1 | | | |
| Dimension | | | | |
| Dimension | W330 × D320 × H113 (mm) | | | |
| Weight | 6.2 kg (Battery included) | | | |
| Operating Environment | | | | |
| Temperature | 10~40 ℃ | | | |
| Humidity | | | | |
| Pressure | 70~106 kPa | | | |
| ■ Transportation and Storage Environment | | | | |
| Temperature −10~60 °C | | | | |
| Humidity | 25~95% RH (Without dew condensation) | | | |
| riamarty | | | | |

| Others | | | | |
|---------------------------------|------------------------------|--|--|--|
| Aux. Input | 10 mm/0.5V 2 channel | | | |
| LAN Port | IEEE 802.3u 100BASE-T | | | |
| LAN POIL | 1 channel | | | |
| Serial Port | RS-232C 1 channel | | | |
| CF Card Slot | TYPE II × 1 | | | |
| Number of Diagnostic Statements | 147 cases | | | |
| | ① Neonate (0~11 years old) | | | |
| Analysis | 2 Child (12~18 years old) | | | |
| | 3 Adult (Above 19 years old) | | | |











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