

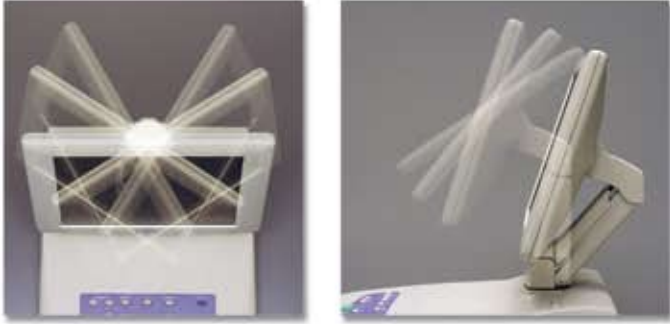
cardiofax **V**

ECG-1550A Electrocardiograph

- Optional Stress Testing
- Optional 15-Lead ECG



Easy User Interface ...Touch Panel LCD With Swivel Screen



A flexible arm enables screen angle changes to accommodate varying viewing angles.



DESIGN FEATURES

What you see is truly what you get as the screen display and waveforms are the same size as the internal high-resolution thermal array printout. The display even has a background of grid lines exactly like the recording paper.

Full Disclosure Memory

The most recent five minutes of all 12-lead ECG waveforms are stored in memory. This decreases the chance of losing important data.

Serial Comparison

Averaged waveforms of the latest 5 exams can be compared on the same screen, and ECG changes are viewed on a time interval basis.

Memory

The standard internal memory stores approximately 400 12-lead resting ECG's, and on the optional flash card, another 2,500 resting ECG's can be stored.

Communication

Stored data can be transferred to a P. C. via flash card, LAN, or Wireless LAN interface. The optional QB-903E ECG viewer software resides on the P. C. and allows the clinician to take additional measurements, and embellish the interpretation if necessary.

EMR Connectivity

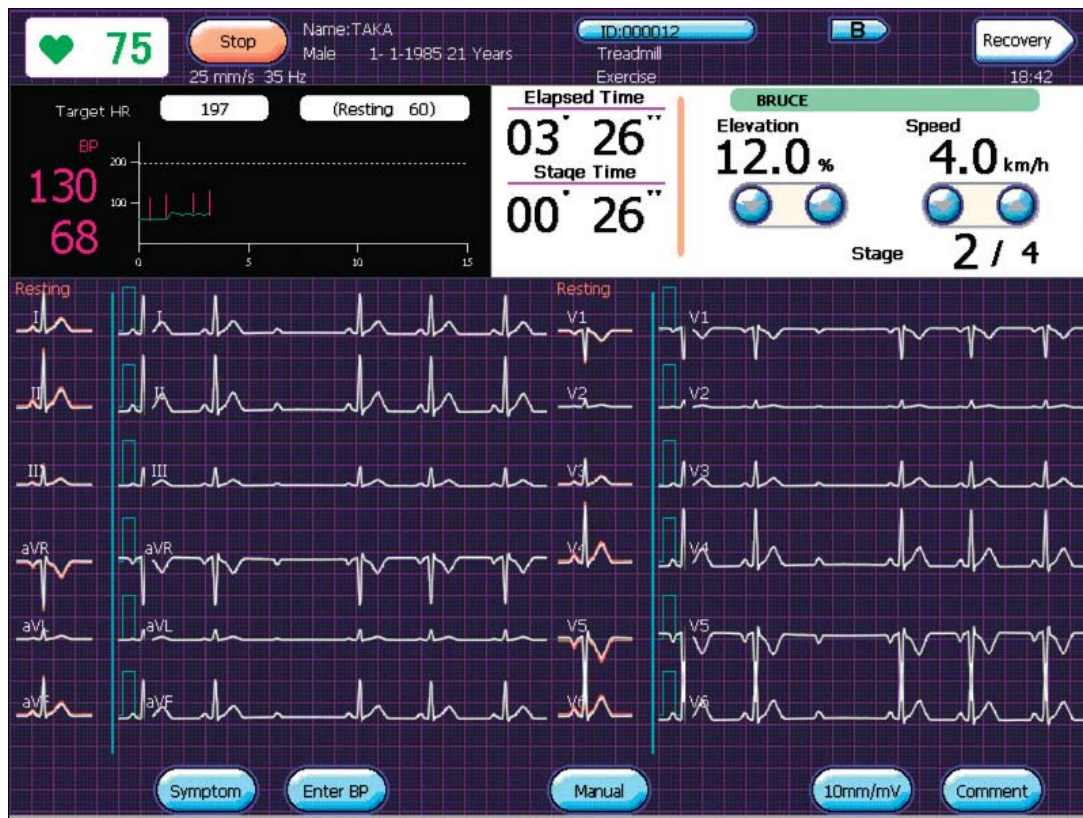
The optional P. C. viewer software allows the clinician to print reports to PDF files that many EMR systems will accept.

Full Disclosure Memory



The most recent five minutes of all 12-lead ECG waveforms are stored in memory. This decreases the chance of losing important patient data.

Optional Stress Testing



Simultaneous 12-lead stress ECG waveforms are displayed on the screen. 12 stress leads enables the clinician to quickly and accurately detect abnormal ST conditions than is possible with 3 or 6 leads.

The dominant resting ECG complex is displayed at the left side of each lead so that the clinician can quickly compare ST changes.

The stress system will also accommodate a 1-minute Adenosine step protocol.

You can create files of resting 12-lead ECG and analysis from selected data



You can also create rhythm files from selected data



Specifications

ECG Input

Input impedance: $\geq 10\text{ M}\Omega$

Electrode offset tolerance: $\geq \pm 400\text{mV}$

Input unit protection: Isolated and defibrillation protected

Standard sensitivity: 10 mm/mV $\pm 5\%$

Common mode rejection ratio: 110 dB or less

Frequency response: 0.05 Hz to 150 Hz, $\geq -3\text{ dB}$ (drift filter: off, High-cut filter: 150 Hz)

Waveform Data Processor

ECG leads: 12 lead (with JC-901D)

Number of inputs: 2

Sample rate: 500 samples/s

AC line filter: 50/60 Hz

High cut filter: 25, 35, 75, 100, 150 Hz

Time constant: $\geq 3.2\text{ s}$

External input: 2 channel, 10 mm/0.5 V

Signal output: 1 channel, 0.5 V/1mV

Sensitivity selection: 2.5, 5, 10, 20 mm/mV

Display

Type: Color LCD (with backlight)

Display size: 12.1 inch

Resolution: 800 x 600 dots

Displayed data: Waveform, patient information, recording settings, operation mode

Recorder (ECG-1550A)

Printing process: High resolution thermal print head

Printing density: 200 dpi (8 dots/mm)

Scanning line density: 1 ms

Number of channels: 3, 4, 6, 7, 12

Paper speed: 5, 10, 12.5, 25, 50 mm/s

Recording data: Program type, version, date and time, paper speed, sensitivity, lead name, filter, hospital name, patient information, electrode detachment, noise

Recording paper type: 210 mm width, 30 m long Z-fold (100 m or 300 m Z-fold and roll recording paper set outside the main unit)

ECG Analysis

Program name: ECAPS 12C

Analysis patient age: 3 years to adult

Finding items: approx. 200

Judging items: 5

Connectors/ PC Card Slot

USB: USB1.1 ? 2

LAN: IEEE802.3 (10BASE-T, 100 BASE-TX) x 1

PS/2: keyboard connector x 1

PC card slots: TypeI/II PC card standard 1997 (excluding CardBus) x 2

Power Requirements

Line voltage: 100 to 127V, 220 to 240 V $\pm 10\%$

Line frequency: 50/60Hz

Power input: ECG-1550A: 150 VA

Power saving: Standby mode

Battery operation

Voltage: 12 V

ECG-1550A:

Power consumption: 10 A or less

Battery operation*:

Approx. 40 minutes

*Under the conditions of operating temperature 25°C, fully charged new battery, recording speed 25 mm/s (for ECG- 1550A), 6 ch continuous recording (for ECG-1550A)

Environment

Main Unit:

Operating temperature: 10 to 40°C

Operating humidity: 25 to 95% RH

Operating atmospheric pressure: 70 to 106 kPa

Storage temperature: -20 to 65°C

Storage humidity: 10 to 95% RH (non condensing)

Battery:

Operating humidity: 45 to 85% RH

Storage temperature:

30 days or less: -20 to 50°C

one year or less: -20 to 30°C

Storage humidity:

60 days or less: 10 to 95% RH

more than 60 days: 45 to 85% RH

Recording paper:

Operating humidity: 25 to 80% RH

Storage temperature: -20 to 50°C

Storage humidity: 10 to 90% RH

Performance

Performance standard:

IEC60601-2-51(2003)

Safety

Safety standard: IEC60601-1 (1988), IEC60601-1

Amendment 1 (1991), IEC60601-1

Amendment 2

(1995), IEC60601-2-25 (1993), IEC60601-2-25

Amendment 1 (1999), IEC60601-1-1 (2000)

Type of protection against electric shock:

AC power: Class I

Battery power: Internally powered equipment

Degree of protection against electric shock: Defibrillator proof type CF applied part when input box JC-901D is used

Dimensions and Weight

Dimensions (excluding protrusions):

ECG-1550A: 330 W x 420 H x 340 D mm

Weight (without battery):

ECG-1550A: 12 kg

Electromagnetic Compatibility

IEC60601-1-2 Second edition 2001

IEC60601-2-25 Amendment 1: 1999

Local Purchase Options

Purchase the following recommended models.

Recommended models

- Bar code reader
LS2208 (SYMBOL) www.symbol.com
OPL-6735-USB (OPTICON) www.opticon.com
- Magnetic card reader
KT-993-3R-0101 (NEURON) www.neuron.co.jp/indexE.html
- Keyboard
ACK-595 (SOLID YEAR) www.solidyear.com/all.html

Reference specifications*

- Bar code reader
USB1.1, bus powered, HID class type
- Magnetic card reader
USB1.1, bus powered, HID class type
- Keyboard
PS/2 connector type

*If the recommended model is not available, you can try using a unit with these reference specifications although the proper functioning of any unit other than the recommended models cannot be guaranteed.

*This device is intended for use only by qualified medical personnel.
This brochure may be revised or replaced by Nihon Kohden at any time without notice.*



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