

HEARTSCREEN 112C-1

3/6/12-channel diagnostic ECG



CE 1639

Main features:

- 12-lead simultaneous measurement, monitoring
- 3/6/12-channel, 112mm wide thermal printing
- Foils keys and alphanumeric keyboard on touchscreen display for patient data input
- 8-hours operating from battery with
- 2-hours charging time
- Built-in power supply
- 150 recordings storage capacity
- Diagnosis -, rhythm analysis - and rhythm event printing program
- USB or WiFi connection to PC

Services:

- Automatic and manual lead selection
- Programmable recording modes
- Automatic ECG curve positioning
- Economic printing mode
- Quick paper change
- Exercise ECG option
- Connection to hospital information system
- Cardiological data management software on PC
- Last 20 patient data storage

Ergonomic controls, menu guided functions

Clear, easy-to-use, touch controlled device with maximum 3-level menu system, hotkeys and with multi language touch keyboard for patient data input. Dedicated buttons are available for the basic functions.



Reliable basic functions

Noise-free operation. Detailed, high-resolution 12-channel recording by displaying and printing up to 12-leads simultaneously. HS112C-1 device provides the services of a real A4 ECG in a more compact way.

Analysis and diagnosis program

The two programs help to analyse and evaluate recordings in a great extent. The analysis program determines the amplitude and time parameters of each wave on the typical ECG beats while the diagnosis program uses the measured parameters and recommends diagnoses taking various morphological parameters into account and choosing from the approx. 100 diagnostic categories.

Store program

The user can make recordings with various pre-set lengths from 12 ECG leads. Rhythm recordings with selectable lengths up to 10 minutes can be stored of any channels and rhythm analysis can be performed as well. This one-channel analysis program helps to discover irregular rhythms, creates statistics of each beat type and represents the frequencies of occurrence on a diagram.

Event print program

An excellent option is provided by the device when the patient has abnormal beat only occasionally. It is detected by the program and the abnormal signals will be printed.

Mobile operation

Thanks to the high-capacity battery and modern battery management technology the HS112C-1 device is a perfect choice for mobile application. 8 hours of continuous operation is provided in monitoring mode and upon unexpected situations a printing period of more than 30 minutes is available with one single charge.

HS112C-1 device PC connection

The basic configuration of HS112C-1 device includes PC connection possibility. The device can be connected to Innobase cardiological database management program and to the optional CardioPC exercise program. This feature ensures further possibilities to evaluate and to archive recordings, patient files.

Technical specification

General data:

Sizes and weight: 295 x 225 x 82 mm, 1.9kgs
Mains voltage: 110-240V 50/60Hz
Battery type: NiMH, 8 pcs AA cells

ECG amplifier:

Sampling: 8 kHz channel/24 bit
Pacemaker detection: 2-700mV/ 0,5-2ms
Electrode fall down detection: by leads

Filters (digital):

baseline- 0.05 /
muscle -35 / noise - 50/60Hz

Patient cable:

defibrillator protected 10-lead

Sensitivity:

2.5, 5, 10, 20mm/mV

Paper speed:

5, 10, 25, 50mm/sec

Printing paper:

Heat-sensitive 112 mm wide,
Z-fold, 112 x 150 mm sheets

Auto and manual printing: 4x3 / 2x6 lead normal
or 12 leads crosswise printing with 25mm/sec speed in 4
sec length

ECG analysis results: Intervals, amplitudes, electric
axis, mean complexes and rhythm curves,
recommended diagnosis, rhythm analysis decision
categories and statistics

Monitoring on display:

Display: TFT, 640 x 480 pixel, 5,7" touchscreen

Number of displayed curves: 12 (2 x 6) leads, 6 or
3 (+ rhythm curve) leads with lead selection.

PC connection:

isolated USB, WiFi option

Applied standards:

EN60601-1-1 3. edition,
EN60601-1-2, EN60601-2-25

Environment requirements:

Operating temperature: +10...+40 °C
Storage temperature: -20...+55 °C

Accessories:

1 pcs 10-lead defibrillator protected ECG cable
4 pcs limb ECG electrode
6 pcs chest ECG electrode
1 pack Z-fold printing paper
1 bottle ECG gel
Carrying bag

Options

Innobase data management software
USB cable
WiFi

**The device is manufactured according to the
93/42/EEC Medical Directives.**

We reserve the right for modification!

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