



CARDIOVIT MS-2010

Technical Data CARDIOVIT MS-2010

System:

Dimensions: 258 x 193 x 50 mm (l/w/h)

Weight: 1.5 kg including rechargeable battery and paper

Electrical data:

Power: Mains or battery operation

Voltage: 100 to 240 V

Current: 0.3 A (115 V) to 0.16 A (240 V)

Frequency: 50/60 Hz

Battery type: Rechargeable polymer battery, replaceable by the user, battery capacity for 100 ECG printouts or 3 hours of continuous display (without printing)

Battery recharging time: Approx. 3 hours after full discharge (with monitor switched off)

Power consumption: Approx. 40 VA

Line frequency filter: Distortion-free suppression of superimposed 50 or 60 Hz sinusoidal interferences by adaptive digital filtering

ECG amplifier:

- Sampling frequency: 4000 samples/second/channel
- Measuring range: Dynamic +/- 10mV, DC +/- 300 mV
- Pacemaker detection: > +/- 2 mV / pulse width > 0.1ms
- Frequency range: 0Hz - 150Hz (IEC/AHA) / 0.05 Hz - 300 Hz (for children and SAECG)
- CMRR: > 100dB
- Digital resolution: 5µV / 18bit
- Input impedance: 100MΩ
- Patient leakage current: < 5µA
- Patient input circuit: Fully floating and isolated, defibrillation protected
- Defibrillation protection: 5000VDC

Special recording functions:

- Detection of loose electrodes, electrode impedance, overvoltage, AC noise, baseline fluctuations and muscle tremor
- Heart rate measurement: Up to 300 beats per minute

Standard Interfaces:

Interface for exercise ECG control:

RS-232 (V24) serial interface: Spirometry (Spirovit sensor 250 or 260)

QRS trigger output: TTL, +/- 10V

USB x 1: Universal Serial Bus connection for USB devices, e.g. optional barcode reader, external USB keyboard, memory stick or laser printer

Communication:

SCM (SCHILLER Communication Module):

Communication with SEMA-200 via:

- Ethernet (LAN) RJ-45 connector
- optional GPRS
- optional WLAN module with integrated antenna, supports 802.11g, WPA, WPA2, WEP and SSID (invisible)

Internal memory: 350 ECG recordings

Long-term rhythm recording:

5 minutes memory: The signals of the past 5 minutes for all ECG channels (full disclosure) can be saved in the memory and transmitted to SEMA.

Filters:

- Myogram filter: Adjustable to 25 or 35 Hz
- SSF: SCHILLER Smoothing Filter
- SBS: SCHILLER Baseline Stabiliser

Display:

Display type: Resistive colour LCD touch screen with LED back light, diagonal 10.4 inch (264 mm)

Display resolution: 800 x 600 pixels

Display data: Heart rate, patient name, patient number, time, curves, lead designations, speed, amplification, filter settings and warnings

Number of leads displayed on the screen: 3, 6, 2x6, 3x4+1 rhy and 12

Lead combinations: Up to 12 simultaneous leads: Standard/Cabrera/Nehb; more lead combinations freely programmable by the user

Printer:

Printing technology: High-resolution thermal printing, 8 dots/mm (amplitude axis), 16 dots/mm (time axis), @ 25 mm/s

Frequency range: 0.05Hz - 150Hz (IEC/AHA)

Chart speed: 5, 10, 12.5, 25 & 50 mm/s

Sensitivity: 2.5, 5, 10, 20 & 40 mm/mV

Paper type: Thermo reactive, Z-folded, 114 mm wide, optimal positioning on a width of 105 mm (20 m of paper)

Writing width: 3-, 6- or 12-channel printout in manual mode

Keyboard:

Type: Operation and entry directly via the touch screen keyboard.

Hardware options:

- Trolley (Kangaroo)
- Suction electrode system
- Transport case
- Barcode reader
- Internal WLAN on SCM
- Internal GPRS on SCM
- QRS trigger

Software options:

- Software C™ ECG analysis program for adults / children
- Thrombolysis software
- High-resolution, signal-averaged ECG (SAECG)
- Heart rate variability (HRV)
- Spirometry
- Worklist

Standards:

Ambient conditions:

Temperature: Operation: 10° to 40°C ; transport/storage: -10° to 50°C

Humidity: Operation: 20 % to 95 % non-condensing; transport/storage: 15 % to 95 % non-condensing

Pressure: Operating: 700 to 1060 hPa; transport/storage: 500 bis 1060 hPa

Certification:

Protecting class: II according to IEC 60601, with functional earth, IIa according to Directive 93/42EEC

Safety Standard: CF according to IEC 60601-1; IEC 60601-1, IEC 60601-1-2, IEC 60601-2-51, ANSI/AAMI EC11

Conformity: CE according to Directive 93/42EEC

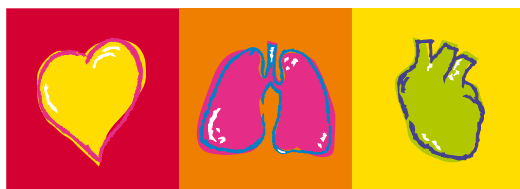
Warranty:

Standard warranty is 15 months.

Accessories:

All our accessories are available at www.schiller.ch

Technical data are subject to change without notice.



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