



CARDIOVIT AT-10 plus

Technical Data CARDIOVIT AT-10plus

System:

Dimensions: 348 x 288 x 87 mm (l/w/h)

Weight: Approx. 4.2 kg including rechargeable battery and paper

Electrical data:

Power Supply: Mains or battery operation

Voltage: 100 to 240 V

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

Sampling: 50/60 Hz

Battery type: Lithium-ion rechargeable battery, replaceable by the user; battery capacity for 100 ECG printouts or 4.5 hours of continuous display (without printing)

Battery recharging time: Approx. 6 hours after full scharge (with monitor switched off)

Power consumption: 14 to 28 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 / duration > 0.1ms

- Frequency range: 0Hz - 150Hz (IEC/AHA)

- CMRR: > 100dB

- Digital resolution: 5µV / 12bit

- Input impedance: 100MΩ

- Patient leakage current: < 5µA

- Patient input circuit: Fully floating and isolated, defibrillation protected

- Defibrillation protection: 5000VDC

Special functions:

- Detection of loose electrodes, electrode impedance, overvoltage, AC noise, baseline fluctuations and muscle tremor

- Heart rate measurement: 30-300 bpm; heart rates exceeding this range are not displayed

Standard Interface:

Interface for exercise ECG control:

- 1 x RS-232 for bicycle ergometer

- 1 x RS-232 for treadmill

- 1x RS-232 for NIBP (BP-200plus)

DC:

- DC input 0.5 V/cm

- DC output 0.5 V/cm

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

VGA video connection: External LCD connection

QRS-Trigger Output: TTL, +/- 10V

Communication:

SCM (SCHILLER Communication Module):

Communication with SEMA-200 via the internal RJ-45 Interface

- USB

- Optional internal modem/fax

- Optional internal WLAN module

Internal memory: 350 ECG data

Long-term rhythm recording:

5 minutes memory: In the memory, the signals of the past 5 minutes can be saved over all ECG channels and transmitted to SEMA

Filters:

- Myogram filter: Adjustable to 25 or 35 Hz

- SSF: SCHILLER Smoothing Filter

- SBS: SCHILLER Baseline Stabiliser

Display:

Display type: Backlit colour LCD, diagonal 10.4 in (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 displayed leads: 3, 6 oder 12

Lead combinations: Up to 16 simultaneous leady; Standard/ Cabrera/Nehb; more lead combinations freely programmable by the user

Printer:

Printing technology: High-resolution thermal printing, 8 dots7mm (amplitude axis), 40 dots/mm (time axis), @ 25 mm/s

Frequency range: 0Hz - 150Hz (IEC/AHA)

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

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

Paper type: Thermo-reactive, Z-folded, 14 x 21 cm (DIN A4 ; letter size)

Writing breadth: 3 to 7 recording channels positioned at optimal width on 200 mm, automatic baseline adjustment

Keyboard:

Type: User-friendly, splash- and dustproof foil keyboard with softkeys and alphanumeric keys

Hardware options:

- Ergometer (ERG-911)

- Treadmill (MTM-1500)

- Blood pressure recorder (BP-200plus or ERG-911)

- Instrument trolley (UNICART 1 or 2)

- Suction Electrode system (VAC-100)

- Transport case

- Barcode scanner

- Internal WLAN on SCM

- Integrated modem/fax on SCM

Software options:

- ECG interpretation: Software C™ ECG analysis software for adults and children

- Pacemaker measurement

- High-resolution signal-averaged ECG (SAECG)

- Heart rate variability (HRV)

- Thrombolysis software

- Exercise ECG (EXEC II™)

- Spirometry

- Worklist

- Vector cardiography (combined with SEMA-200)

Standards:

Environmental conditions:

Temperature: Operation: 10° to 40° C ;

transport/storage: -10° to 50° C

Relative humidity: Operation: 20 % to 95 % noncondensing;

transport/storage: 15 % to 95 % noncondensing

Pressure: Operating: 700 to 1060 hPa;

transport/storage: 500 bis 1060 hPa

Certification:

Protecting class: I according to IEC 60601-1, with internal battery,

IIa according to Directive 93/42EWG

Safety Standard: CF according to IEC 60601-1; IEC 60601-1,

IEC 60601-1-2, IEC 60601-2-25, IEC 60601-2-51, EN 60068-2-27, ANSI/

AAMI EC11

Conformity: CE according to Directive 93/42EWG

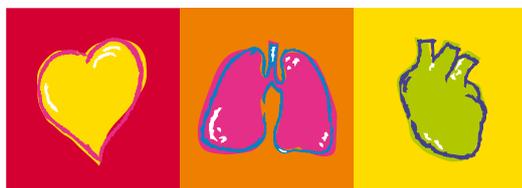
Warranty:

Standard warranty period is one year

Accessories:

All our accessories are available at www.schiller.ch

Technical data are subject to change without notice.



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