

# CARDIOVIT AT-101

## The budget-priced high-tech ECG device

### Ready for networking with XML output

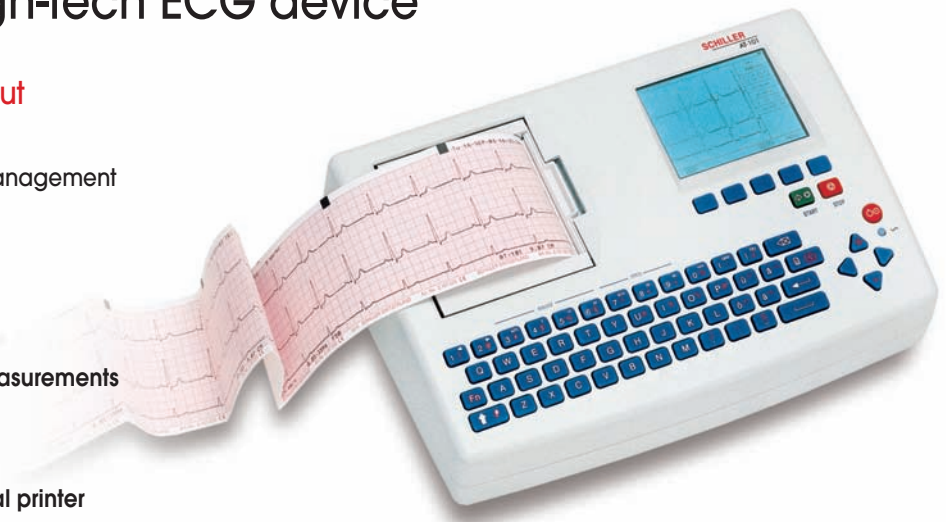
Possibility of data transfer to SCHILLER Data Management System SEMA-200

#### Performance:

- Intuitive and easy to use with direct keys
- 12-lead Resting ECG with standard ECG measurements
- Integrated graphical 3-channel LC display
- Measurements
- Easy Print: Integrated high-resolution thermal printer
- Various user-programmable report formats on internal or external printer
- Interface for external printer for printouts on standard paper
- Storage and serial data transfer for Resting ECG data to a PC (with memory option)

#### Options:

- Memory and data transfer to a PC or Information System
- Interpretation software
- Thrombolysis



### SCHILLER eXtensible Connectivity

#### Optional XML Data Transmission (needs memory option):

- The AT-101 is available with the internal SCHILLER Communication Module (SCM), which transmits Resting ECG data on XML format to a PC or Information Systems via:
  - Ethernet interface; or
  - Built-in analogue modem (optional)
- This enables the AT-101 to be an integrated part of a larger systems solution
- It is possible to see from what device the data has been transferred from (serial no., identification, transfer date and time)
- Secure transmission of patient data via the Internet is possible using 1024-bit strong encryption
- Equipped with the add-on SCM Server, the SCHILLER Data Management System SEMA-200 can receive the XML output from the SCHILLER Communication Module



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# Technical Data CARDIOVIT AT-101:

## System:

**Dimensions:** 290 x 198 x 76 mm, approx. 2.6 kg

**Built-in monitor:** 76 x 57 mm effective display area; 320 x 240 dots resolution

**On-screen status indicators:** Battery status, date, time, power source  
**Control panel and keyboard:** User-friendly, alphanumeric keyboard, LED indicator and LC display

**Power supply requirements:** 220 – 240 V (nominal), 50/60 Hz; 110 – 115 V (nominal), 50/60 Hz; stand-alone operation with built-in rechargeable battery; LED indicator for mains operation, integrated power supply unit

**Battery capacity:** 4 hours of normal use

**Power consumption:** Max. 28 VA

**Line frequency filter:** Distortion-free suppression of superimposed 50 or 60 Hz sinusoidal interferences by means of adaptive digital filtering (SCHILLER Powerline Filter SPF)

**Frequency range of digital recording system:** 0 – 150 Hz (IEC/AHA)

**Chart paper:** Thermo-reactive, Z-folded, 80 mm wide

**Printing process:** High-resolution thermal head printer, 8 dots/mm (amplitude axis), 40 dots/mm (time axis) @ 25 mm/s

**Interfaces:** RS-232 interface; data transmission to PC (SEMA-200) and external modem connection (memory option necessary); parallel port for external printer; optional Ethernet interface and optional internal modem for XML data transmission (memory option necessary)

**Memory:** Possibility to save up to 40 Resting ECG measurements (Option)

## Environmental conditions:

- Temperature, operating: 10° C bis 40° C
- Temperature, storage: -10° C bis 50° C
- Relative humidity: 25 % bis 95 % (no condensation)
- Pressure during operation: 700 bis 1060 hPa

## Safety Standards:

**Safety standard:** IEC/EN 60601-1; UL 60601-1; C22.2 Nr. 601.1-M90; IEC/EN 60601-2-25; IEC/EN 60601-1-2 (EMC)

**Protection class:** I according to IEC/EN 60601-1 (with internal power supply)

**Applied Part:** CF according IEC/EN 60601-1

**Conformity:** CE according Directive 93/42/EEC (Medical Devices)

**Classification:** IIa according Directive 93/92/EEC

## Technical Data for ECG:

**Patient input circuit:** Fully floating and isolated, defibrillation-protected (only with original SCHILLER patient cable)

## Monitor display:

- 3-channel display of the selected leads
- Heart Frequency, HF
- 25, 50 mm/s
- 5, 10, 20 mm/mV
- Filter status (on/off)
- Insufficient electrode contact

**Leads:** 12 simultaneous leads: Standard / Cabrera

**Chart printout speed:** 5/10/25/50 mm/s (manual print)

**Sensitivities:** 5/10/20 mm/mV, either automatically adjusted or manually selected

## Automatic lead programs:

- 3/6/12-channel presentations of 12 simultaneously recorded leads
- Numerous printout formats can be selected

## Data record:

- Patient data (name, age, height, weight, BP), user ID
- Listing of all ECG recording conditions (date, time, filter), (optional)
- Measurement program: ECG measurements results (intervals, amplitudes, electrical axes), average complexes with measurement reference markings
- Interpretation (C, optional) with adult and pediatric guidance
- Thrombolyse Software (only in combination with C option)

**Recording track:** 3/6/12-channel presentation, optimal positioning on a width of 72 mm (internal printer) or A4 (external printer), automatic baseline adjustment

**Filter:** Myogram filter (muscle tremor filter): 25 or 35 Hz, SCHILLER Baseline Stabilizer SBS, SCHILLER Smoothing Filter SSF

## ECG amplifier:

- Simultaneous recording of all 9 active electrode signals (= 12 leads)
- Sampling frequency: 1000 Hz
- Pacemaker detection:  $\geq 2$  mV/ $\geq 0.1$  ms

## Scope of delivery for CARDIOVIT AT-101 Standard:

CARDIOVIT AT-101 Resting ECG with 12 simultaneous leads, pacemaker detection, automatic ECG measurement

## Accessories:

- 1 10-lead patient cable
- 1 set of electrodes or disposable electrodes
- 1 power cable
- 1 pack chart paper
- Operating manual

## Software options:

- Thrombolysis Software
- Memory for up to 40 measurements
- Computer-aided ECG interpretation for pediatric and adult ECGs (C)
- SEMA-200 PC software to save, validate and archive ECG data on PC

## Hardware options:

- Equipment trolley
- External printer
- Internal SCHILLER Communication Module with optional built-in analogue modem

Technical Data are subject to change without notice.

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Your specialist:



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