

## CARDIOVIT AT-101 Tele

# The Mobile 12-Channel ECG System with Telemetric ECG Data Transfer for Use Around the World

### Providing enhanced patient safety!

SCHILLER's know-how in GSM technology again guarantees the highest mobility with its latest product generation, the CARDIOVIT AT-101 Tele – providing unmatched advantages in emergency monitoring.

The mobile 12-channel ECG system with telemetric ECG data transfer ensures fast and reliable ECG and patient data transmission to a cardiology department or emergency ward. This enables direct referral to the relevant department – any time, anywhere, saving valuable communication time in an emergency. Another advantage of the AT-101 Tele is the ease of operation. With a single button push, the ECG data is immediately transmitted via GSM or modem, providing twice the safety margin for the user. The CARDIOVIT AT-101 Tele is a reliable companion for emergency doctors, general practitioners, occupational physicians and rescue services.

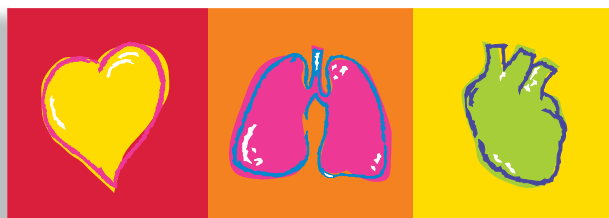
#### Features:

- Intuitive and easy to use with direct function keys
- Simultaneous 12-lead Resting ECG recording with standard ECG measurements
- Integrated, 3-channel graphical LCD
- Data transfer to a PC or information system with "repeat" function in case of GSM network disturbances
- Easy Print: Integrated, high-resolution 3-channel thermal printer

- Various user-programmable report formats on internal printer
- Memory for ECG recordings
- Data transfer to a PC or information system using an integrated serial interface

#### Options:

- ECG interpretation software
- Thrombolysis recommendation software
- Additional external antenna
- SEMA data management PC software



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The Art of Diagnostics

# Technical Data CARDIOVIT AT-101 Tele:

## Data Transmission

The AT-101 Tele is equipped with an internal SCHILLER communication module (SCM) for the transmission of Resting ECG data to a PC or an information system in XML format via:

- Ethernet interface
- Integrated analogue modem
- GSM



## 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 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:** 3 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 printer; 8 dots/mm

**Interfacing Capabilities:** RS-232 interface; data transfer to PC (SEMA-200) and external modem connection (memory option required); parallel port for external printer

**Memory:** Storage of up to 40 resting ECG recordings

## Environmental conditions:

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

## Safety:

**Safety standards:** IEC/EN 60601-1; IEC/EN 60601-2-25; IEC/EN 60601-1-2 (EMC)

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

**Applied part:** CF according to IEC/EN 60601-1

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

**Classification:** IIa according to directive 93/42/EEC

## Technical Data for ECG:

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

## Monitor display:

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

**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)
- Measurements: ECG measurement results (intervals, amplitudes, electrical axes), average complexes with measurement reference markings
- Interpretation (C, optional) with adult and pediatric guidance
- Thrombolysis software (only in combination with C option)

**Recording track:** 3/6/12-channel presentation, optimum positioning on a width of 80 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)
- Pacemaker detection:  $\geq \pm 2 \text{ mV} / \geq 0.1 \text{ ms}$

## Telecommunication

- Quad band GSM 850/900/1800/1900 MHz
- SIM card: Cards with 3 and 1.8 V supported
- Antenna: Quad band; an external 50 ohm antenna can be connected via SMA antenna interface (option)

## Scope of Delivery:

**CARDIOVIT AT-101 Tele:** Resting ECG with 12 simultaneous leads, pacemaker detection and automatic ECG measurement

## Accessories:

- 1 10-lead patient cable
- 1 set of electrodes or disposable electrodes
- 1 power cable
- Quad band antenna
- 1 pack of printer paper
- Operating manual

## Software options:

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

## Hardware Options:

- Equipment trolley

Technical data and images are subject to change without notice.

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