

The World's First ECG Device with Integrated Defibrillator, for Mobile Use

The First Life-Saving ECG Device

The AT-101 easy is the world's only ambulatory ECG device with an integrated defibrillator. With it, you are in full control of the situation.

The AT-101 easy combines the AT-101 with the revolutionary FRED® easyport®, offering the innovative options and monitoring features of both devices. The user is guided through the life-saving measures by comprehensible displayed and voice messages.

"Time is life!"

The AT-101 easy is the ideal device for emergency doctors, paramedics, physicians running their own practices (home visits), occupational physicians, rescue services or as a complement for ECG monitoring, at any remote location of the world.

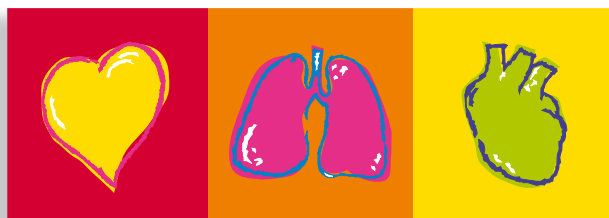
Features:

- Intuitive and easy to use with direct keys for the most important functions
- Simultaneous 12-lead Resting ECG recording with standard ECG measurements
- Integrated, graphical 3-channel LCD
- Easy Print: Integrated high-resolution 3-channel thermal printer
- Various user-programmable report formats on internal printer
- Storage and serial data transfer for Resting ECG data to a PC (with memory option)

- Voice Prompt
- Defibrillation

Options:

- ECG interpretation software
- Thrombolysis recommendation software
- SEMA data management PC software
- Memory (required for communication with a PC or information system)
- Reading software to read the defibrillation events from the memory card



SCHILLER

The Art of Diagnostics

Technical Data CARDIOVIT AT-101 easy:

System:

Dimensions: 290 x 198 x 76 mm, approx. 2.9 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

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

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

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 Standards:

Safety standard: IEC/EN 60601-1; UL 60601-1; C22.2 No. 601.1-M90; IEC/EN 60601-2-25; IEC/EN 60601-1-2 (EMC); IEC/EN 60601-2-4

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

Applied Part: CF according IEC/EN 60601-1 (ECG); BF according IEC/EN 60601-1 (Defi)

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

Classification: Ib according Directive 93/42/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 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), (optional)
- Measurement program: ECG measurement results (intervals, amplitudes, electrical axes), average complexes with measurement reference markings
- Interpretation (C, optional) with adult and paediatric guidance
- Thrombolysis software (only in combination with C option)

Recording track: 3/6/12-channel presentation, optimal 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: $\geq \pm 2 \text{ mV} / \geq 0.1 \text{ ms}$

Defibrillator:

Type of defibrillation pulse:

Multipulse Blowave® (patented):

Biphasic pulsed (interrupted) defibrillation impulse with fixed duration of the first phase of 5 ms, active for the defibrillation. Constant emitted energy independent of the patient resistance. Influence on the electrical charge of the second, negative phase so the residual charge in the heart resulting from the first phase is neutralised (giving highest efficiency).

Energy settings (standard values):

- Adults: 150 – 150 – 150 J
- Paediatric (automatic change-over when the paediatric electrodes are plugged in): 15 – 30 – 50 J
- List of configurable energy values: 15 – 30 – 50 – 70 – 90 – 130 – 150 J (adults) and 15 – 30 – 50 – 70 J (paediatric)

Charge control: Automatic if shock is recommended based on the analysis

Charging time from shock recommended to shock stand-by: < 10 s

Cycle time shock - shock: < 20 s

Indication of shock stand-by: Shock button lit

Control of shock discharge: By means of shock button

Shock release: Via anterior/anterolateral electrodes (lead II)

Rhythm analysis and protocols:

Electrode contact: Check by means of impedance measurement

Rhythm analysis: Analysis of the heart rhythm in the ECG signal to determine if a rhythm requires a shock

Rhythms requiring a shock: Ventricular fibrillation (VF), ventricular tachycardias (VT) of > 180 beats / minute

Analysis performance (sensitivity, specificity etc. for rhythms requiring a shock): Exceeds ANSI/AAMI DF39/1993 and AHA recommendations

Protocols: Ex works with ERC or AHA protocol; Option: Customer-specific protocols on request

Operating elements and displays:

LED lights: Electrode connection indicator at electrode cable socket; LED shock button

Speaker: Spoken instructions (volume control via set-up)

Operation elements: 'ON/OFF' button, 'analysis' button and 'shock' button

Storage on memory card, programming, communication:

Saving ECG and event: Duration, number of released shocks, date and time of shock release

Defibrillation electrodes:

Adult electrodes: 50 cm² active surface per electrode

Paediatric electrodes: 28 cm² active surface per electrode

Electrode cable: 1.2 m

Scope of delivery for CARDIOVIT AT-101 easy:

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

Accessories:

- 1 10-lead patient cable
- 1 set of electrodes or disposable electrodes
- 1 power cable
- 1 pack chart paper
- Defibrillation pads for adults
- Memory card
- Operating manual

Software options:

- Thrombolysis software
- Memory for ECG (required for communication with a PC or information system)
- Computer-aided ECG interpretation for paediatric and adult ECGs (C)
- SEMA PC software to save, validate and archive ECG data on PC
- Reader software to read defibrillation events on memory card

Hardware options:

- Equipment trolley
- Paediatric electrodes
- Electrode cable

All specifications are based on an environmental temperature of 25° C (if not separately indicated).
Technical data and images are subject to change without notice.

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Your specialist:



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