

# CARDIOVIT AT-101 easy

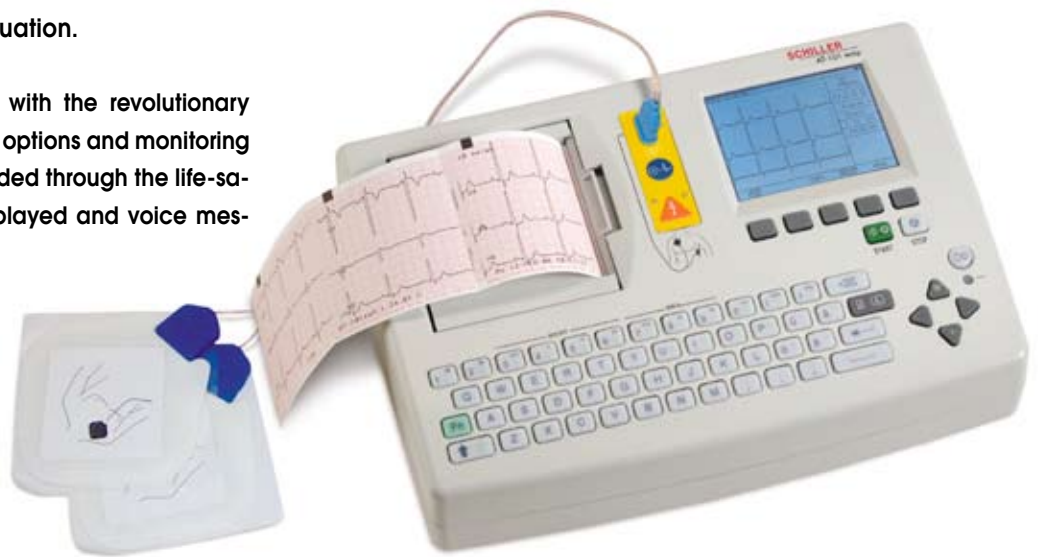
## The World's First ECG Device with Integrated Defibrillator, for Mobile Use

### The First Life-Saving ECG Device

The AT-101 easy is the world's only ambulatory ECG device with an integrated automated and manual 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: automated and manual modes

### 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:** IIb 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

### Defibrillator:

**Defibrillation waveform:** Pulsed biphasic - MULTIPULSE

**BLOWAVE®**

### Energy\*:

- Configurable from 1 to 120 J (adults), from 1 to 70 J (children)
- Automatic recognition when children pads are connected

**Manual mode (option):** Override of the AED mode to decide energy level and shock delivery. Charging is commenced with the blue ANALYSIS button and shock delivered with the orange SHOCK button.

**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: 75 cm<sup>2</sup> active surface per electrode  
Electrode cable: 2 m
- Paediatric electrodes: 38 cm<sup>2</sup> active surface per electrode  
Electrode cable: 1.4 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

### Asia

**SCHILLER Asia-Pacific**  
52200 Kuala Lumpur, Malaysia  
Phone +603 6272 3033  
sales@schiller.com.my  
www.schiller-asia.com

### Austria

**SCHILLER Handelsgesellschaft mbH**  
A-4040 Linz  
Phone +43 732 70 99-0  
sales@schiller.at  
www.schiller-austria.com

### China

**SCHILLER International Trading Co. Ltd.**  
200335 Shanghai, China  
Phone +8621 6209 9627  
sales@schiller.com.my  
www.schiller.cn

### France

**SCHILLER Médical S.A.S.**  
F-67162 Wissembourg/Cedex  
Phone +33 3 88 63 36 00  
info@schiller.fr  
www.schiller-france.com

### France (bureau Paris)

**SCHILLER France S.A.S.**  
F-77608 Bussy-Saint-Georges  
Phone +33 1 64 66 50 00  
info@schillerfrance.fr  
www.schiller-france.com

### Germany

**SCHILLER Medizintechnik GmbH**  
D-85521 Otterbrunn  
Phone +49 89 62 99 81-0  
info@schillermed.de  
www.schiller-germany.com

### Hungary

**SCHILLER Diamed Ltd.**  
H-1141 Budapest  
Phone +36 (1)460 05 92  
sales@t-online.hu  
www.schiller-hungary.hu

### India

**SCHILLER Healthcare India Pvt. Ltd.**  
Mumbai - 400 059, India  
Phone +91 222 2826 35 20  
sales@schillerindia.com  
www.schillerindia.com

### Japan

**SCHILLER Japan, Ltd.**  
Hiroshima 734-8551  
Phone +81 82 250 2055  
koji.makawa@schiller.jp  
www.schiller.jp

### Poland

**SCHILLER Poland Sp. z o.o.**  
PL-02-729 Warszawa  
Phone +48 22 843 2089  
schiller@schiller.pl  
www.schiller.pl

### Russia & C.I.S.

**SCHILLER AG**  
125124 Moscow, Russia  
Phone +7 (495) 970 11 33  
mail@schiller-ag.com  
www.schiller-cis.com

### Spain

**SCHILLER ESPAÑA, S.A.**  
E-28230 Las Rozas/Madrid  
Phone +34 91 713 01 76  
schiller@schiller.es  
www.schiller-spain.com

### Switzerland

**SCHILLER-Reomed AG**  
CH-8953 Dietikon  
Phone +41 44 744 30 00  
sales@schiller-reomed.ch  
www.schiller-reomed.com

### Turkey

**SCHILLER TÜRKİYE**  
Okmeydanı-Sisli - İstanbul  
Phone +90 212 210 8681 (pbx)  
sales@schiller-turkiye.com  
www.schiller-turkiye.com

### USA

**SCHILLER America Inc.**  
Doral, Florida 33122  
Phone +1 786 845 0620  
sales@schilleramerica.com  
www.schilleramerica.com

Your specialist: