

# CARDIOVIT AT-1

## Bet on this 3-channel ECG by SCHILLER!

**The CARDIOVIT AT-1 performs quick and accurate 12-lead ECG analysis, in a three channel format, at a price for one-channel systems.**

With its compact, easy-to-use operation and built-in battery, the AT-1 is perfect for all applications including stationary office use, hospital bedsides and ambulatory field work. Reliable, powerful and low-maintenance, the AT-1 is the ideal cost-effective ECG unit for professional electrocardiography.

**Over 100'000 units have been sold worldwide!**



### 3-channel Resting ECG

- Simultaneous 12-lead acquisition
- 3-channel print format
- One-button operation
- Multiple report formats
- Copy functions
- Various recording rates
- Automatic and manual modes
- Built-in thermal printer
- Built-in, rechargeable battery
- Built-in charger unit
- Lightweight (2,9 kg/6.7 lbs)

### Options:

- Measurement software
- Interpretation software



**SCHILLER**  
The Art of Diagnostics

## Technical Data AT-1:

### System:

**Dimensions:** 290 x 210 x 69 mm / 11.4 x 8.3 x 2.7 in. (l/w/h)

**Weight:** Ca. 2.9 kg / approx. 6.7 lbs

**Power supply requirements:** 220 – 240 V (nominal), 50/60 Hz or 110 – 115 V (nominal), 50/60 Hz independent operation with built-in rechargeable battery, LED indicator for mains and battery, built-in charger unit

**Power consumption:** Max. 28 VA

**Battery charging time:** 15 hrs. from a completely discharged battery, 3 hrs. to 60 % capacity

**Battery capacity:** 2 hrs of normal use

**Leads:** Standard / Cabrera

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

**Frequency range of digital recorder:** 0 Hz to > 150 Hz (IEC/AHA)

### ECG amplifier:

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

### Myogram (muscle tremor) filter:

25 Hz (40 dB/dec) or 35 Hz (20 dB/dec), programmable

**Line frequency filter:** Distortion-free suppression of superimposed 50 or 60 Hz sinusoidal interferences by means of an adaptive digital filter

**Control panel:** Pad keys, LED indicators

### LED indicators:

- |   |                              |
|---|------------------------------|
| - Lead group  | - Paper tray empty or jammed |
| - Mains connected                                       | - Filter status (on/off)     |
| - Battery operation and battery low (indicator flashes) | - Loose electrodes           |

### Norms:

**Safety Standards:** IEC/EN 60601-1; UL 60601-1; C22.2 No. 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:** according Directive 93/42/EEC (Medical Devices)

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

### Environmental conditions:

- Temperature, operating: 10° to 40° C / 50° to 104° F
- Temperature, storage: -10° to 50° C / 14° to 122° F
- Relative humidity: 25 to 95 % (non-condensing)
- Pressure, operating: 700 – 1060 hPa

### Printing (built-in thermal printer):

**Paper speed:** 5 / 25 / 50 mm/s (direct)

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

**Chart paper:** Thermoreactive, Z-folded, 90 mm / 3.5 in wide, or Roll, 90 mm wide

### Printing process:

High-resolution thermal printhead  
8 dots per mm / 200 dots per in (amplitude axes)  
40 dots per mm / 1000 dots per in (time axes, @ 25 mm/s)

**Recording tracks:** 3 channels, positioned at optimal with on 80 mm / 3.2 in., automatic baseline adjustment

### Automatic lead programs:

3 channel representation of 12 simultaneously acquired standard leads

### Data record:

- With option M: ECG measurement results (Intervals, amplitudes, electrical axes, average complexes with optional measurement reference markings)

### Scope of delivery:

**CARDIOVIT AT-1 basic unit** with 3-channel Resting ECG with 12 simultaneous leads and pacemaker detection

### Accessories:

- 10-lead patient cable
- 1 set of electrodes, consists of 4 stainless steel extremity electrodes, 6 precordial electrodes or disposable electrodes
- Electrode gel
- Power cable
- 1 pkg. of recording paper
- Operating manual
- Cart (optional)

### Software-Options:

- Automatic measurement and interpretation program for resting ECGs

Technical data are subject to change without notice.

Your specialist:

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