

CARDIOVIT AT-1 smartprint

The 3-channel ECG
with print intelligence!



Save costs and increase efficiency with the compact AT-1 smartprint featuring flexible print with various analysis functions and presentation modes.

In or even out of your office, printing of up to 12 simultaneous leads is a one-click operation. The printout is either on standard A4 paper, using a HP DeskJet printer, or on 82 mm paper, using the built-in thermal printer.

When no external printer is available, the AT-1 smartprint automatically switches to the internal printer with a conventional 3-channel print out format.

That is intelligent value in a compact format!

3-channel Resting ECG

- HP DeskJet printer for A4-sized analyses
- Built-in thermal printer for analyses in 3-channel print format
- Simultaneous 12-lead acquisition
- Multiple report formats, recording speeds and copy functions
- Measurement and interpretation software
- Built-in rechargeable battery
- Automatic and manual modes
- Built-in charger unit
- Lightweight, less than 3 kg



SCHILLER

Technical Data AT-1 smartprint:

System

Dimensions: 290 x 230 x 69 mm

Weight: Ca. 2.9 kg

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, 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 or 400 automatic ECG printouts

Leads: Standard / Cabrera

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

Frequency range of digital recorder: 0 to 150 Hz (ECG/ARIA)

ECG amplifier:

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

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

Safety

Safety standard: CF according to EN 60601-1 and EN 60601-2-25, CSA, UL

Safety class:

I according to EN 60601-1 (with internal battery)

IIa according to MDD 93/42/EEC

Conformity: CE according MDD 93/42/EEC/FOA approved

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, 2-folded, 90 mm / 3.5 in wide, or roll, 90 mm wide

Printing process: High-resolution thermal pinhead 8 dots per mm / 200 dots per in (amplitude axis) 40 dots per mm / 3000 dots per in (time axis) @ 25 mm/s

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

Automatic lead programs: 3-channel representation of 12 simultaneously required standard leads

Data record: ECG measurement results (intervals, amplitudes, electrical axis), 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:

- Standard HP Deskjet printer
- Printer cable
- 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 pack of recording paper
- Operating manual

Technical data are subject to change without notice.