

Technical Data AT-104 PC

System:

Dimensions: 230 x 150 x 50 mm; approx. 1.9 kg

Controls: Direct function keys for START/STOP/MAN/AUTO ECG recording

Supply-voltage range: 115/230 V[~] (nominal), 50/60 Hz

Power consumption: max. 40 VA

Battery: Mains-independent operation using integrated rechargeable battery

Printing:

Printing process: Integrated high-resolution thermal multi-head printer, 8 dots/mm (amplitude axis), 40 dots/mm (time axis), @ 25 mm/sec.

Recording paper:

Thermoreactive, interleaved, 90 mm wide, approx. 23 m

Recording speed:

10 / 25 / 50 mm/sec (manual mode)

Frequency range, digital recording system:

0 – 150 Hz (IEC/AHA)

Recording channels:

Recording width: Optimally-presented 3-channel printout at a width of 80 mm, automatic baseline

Sensitivity: 5 / 10 / 20 mm/mV, adjusted automatically or selectable manually

ECG:

ECG amplifier:

- Simultaneous recording of all 8 active electrode signals (= 12 leads)
- Sampling frequency: 1000 Hz
- Pacemaker detection: $\geq \pm 2$ mV / ≥ 0.1 ms

Standard:

- ECG measurement
- QT dispersion
- Rhythm recording of resting ECG


Safety Standards:

Patient input circuit: Fully insulated and electrically isolated, defibrillation-safe (only with original patient cable)

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 – 40° C
- Temperature storage: -10 – 50° C
- Relative atmospheric humidity operating: 25 – 95 % (non-condensing)
- Pressure operating: 700 - 1060 hPa

Minimum PC requirements:

A PC must have at least the following:

- Processor: Pentium 100 MHz
- RAM: 64 MB
- Hard disk: 1 GB (min. available capacity)
- FDD: 3.5"
- Ports: 2 available serial RS-232 / 115.2 KB
- Screen: 1024 x 768 dots, 256 colours, high-resolution
- Graphics card: XGA 1 MB
- Mouse or trackball
- Operating system: Windows™ 98SE / 2000 / XP

Options:

Hardware Options:

- Electrode suction unit
 - Treadmill, bicycle, lying ergometer
- You can add the hardware option at any time.

Software Options:

- Resting ECG interpretation program for children and adult ECGs
 - SCHILLER EXEC exercise testing program
 - SCHILLER EXEC+ with full disclosure rhythm review
- You can add any software option at any time.

Subject to technical modifications due to continuous innovations.



Answer fax

**Yes, I am interested in the innovative products from SCHILLER.
Please send me more information about:**

Resting ECG:

- ☐ CARDIOVIT AT-1
- ☐ CARDIOVIT AT-1 smartprint
- ☐ CARDIOVIT AT-101
- ☐ CARDIOVIT AT-2
- ☐ CARDIOVIT AT-2 plus

Exercise ECG (Multitasking Systems):

- ☐ CARDIOVIT AT-10 plus
- ☐ CardioLaptop® AT-110
- ☐ CardioLaptop® PT-160
- ☐ CARDIOVIT AT-102
- ☐ CARDIOVIT CS-200
- ☐ CARDIOVIT AT-104 PC
- ☐ CARDIOVIT AT/SP-10
- ☐ Ergometry

Spirometry:

- ☐ SPIROVIT SP-1
- ☐ SPIROVIT SP-2
- ☐ CS-200 Ergo-Spiro
- ☐ PC Spirometry

Monitoring:

- ☐ ARGUS PRO System
- ☐ PHYSIOGARD TM/CS 910
- ☐ Pulse Oximeter OX-2
- ☐ MR Compatible Monitoring
- ☐ ARGUS LCM Monitor

Defibrillators/Monitoring:

- ☐ FRED® (First Responder External Defibrillator)
- ☐ FRED® easy
- ☐ FRED® easyport
- ☐ DEFIGARD (1002, 3002 IH, 6002)

- ☐ **Holter ECG** MT-101/200
- ☐ **Telemedicine:** MT-120/220 and AT-4 TELE
- ☐ SEMA-200 **Data Management System**
- ☐ BR-102 **Blood Pressure Recorder**
- ☐ MS-3 **Pocket ECG**
- ☐ VAC-100 **Vacuum Electrode System**
- ☐ ECG & Spiro **Accessories**

Name: _____

Hospital: _____

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The Art of Diagnostics

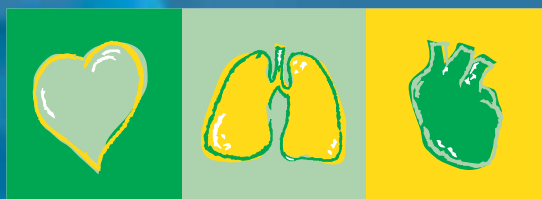
Headquarters: SCHILLER AG, Altgasse 68, CH-6341 Baar, Switzerland, Phone: +41 41 766 42 42, Fax: +41 41 761 08 80, e-mail: sales@schiller.ch



Your specialist:

CARDIOVIT AT-104 PC

Multi use –
multi benefits!



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The Art of Diagnostics

CARDIOVIT AT-104 PC ECG Recorder & PC ECG



Different print formats are pre-selectable from all 12 simultaneously recorded leads.

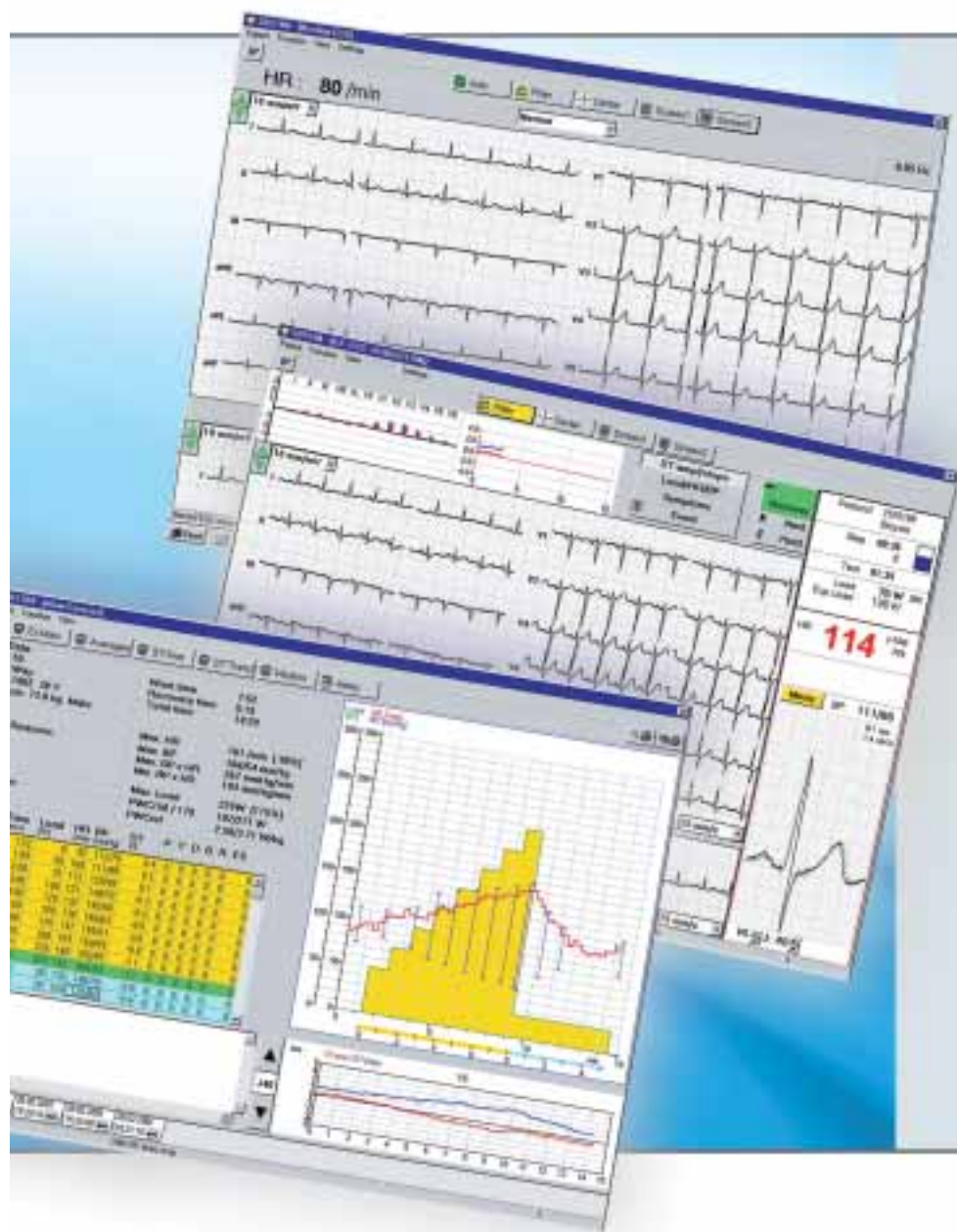
SCHILLER's PC ECG will pay for itself many times over and is clearly differentiated from other PC ECG by its additional functionality.

With its double function as a conventional ECG recorder and as a PC ECG the unique design is ideal in the tight cost situation. Its double utility means a faster payback.

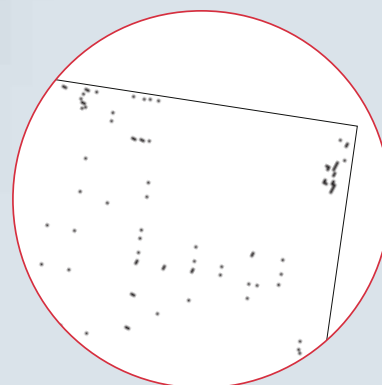
The leading European ECG manufacturer is always one step ahead. Innovative, practical ideas and application of the latest technology (WINDOWS™-based software) are automatic. But see for yourself how much our 12-channel ECG-recorder can do for you.

Your Benefits:

- Benefit twice over: you can make full use of the AT-104, not only as an ECG amplifier linked to a PC, but also as an independent 3-channel ECG recorder without the need for a PC/laptop (e.g. for home visits and emergencies).
- Resting ECG, exercise testing, long-term ECG are possible on the same PC.



Quality is important to us: **SCHILLER AG** is a company certified under ISO 9001/EN 46001. The AT-104 PC carries the **CE** mark and complies with all primary standards and regulations. The patient-input is electrically isolated and defibrillation-safe.



- Operation is controlled from the PC through the PC keyboard, mouse or trackball; for use independently of the PC the AT-104 PC has direct function keys.
- The integrated data-management system saves you paper. All data can be stored on all standard PC storage-media.
- Standard laser and inkjet printers give you sharp and clear printouts on ordinary paper.
- With the integrated 3-channel thermal printer you always have your patient monitored – even if there is a fault in the PC or a power failure.
- Several interface links to your practice system are possible.
- Linking to a network is possible, giving access to data from several locations.
- The AT-104 PC is fully portable and self-sufficient; it is small, light and fitted with an integrated rechargeable battery.
- You benefit from the many years of experience of Europe's leading ECG manufacturer with its own development department and production facilities and tens of thousands of installations worldwide. Our aim is to always deliver impeccable quality.



And there's more!

- Even the basic version includes **SCHILLER's** ECG measurement program, tried and tested ten thousand times over. Precise measurements are given for all 12 simultaneously recorded leads.
- The basic version also provides serial comparisons of resting ECGs as standard.

Even more? YES!

- Software options: Exercise testing program EXEC for automatically controlling a suitable standard ergometer (bicycle, treadmill) with continuous ECG averaging, ST analysis and re-analysis, magnified current QRS complex; SCHILLER's ECG interpretation software for children and adult ECGs; EXEC+ with full disclosure rhythm review.
- As manufacturers and members of standard-setting bodies we are in a position to supply upgrades embodying the latest knowledge at any time.
- Software updates can be easily and quickly added later on diskette or CD-ROM.