

MT-101/200 Holter System

Medical Device Depot Inc.

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Big in performance –
small in format.



SCHILLER

The Art of Diagnostics

High-tech recorder MT-101

Making good things even better!

SCHILLER is proud to introduce the compact and light-weight advanced version of our MICROVIT MT-100/200. The MICROVIT MT-101 is designed for 2- or 3-channel ECG recordings, depending on the ECG cable you use (4 or 6 leads).

Nevertheless, the former 2/3-channel MT-100 recorder is compatible with the more sophisticated MT-200 Analysis Software Version based on WINDOWS™ 2000/XP.

The **MT-101/200 System** operates in stand-alone mode as well as integrated into the CS-200 System, AT-110 and PT-160.



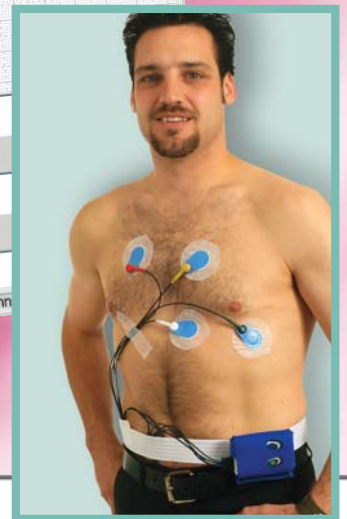
Data transmission:

Alternatively the SD Card can be simply taken out of the Holter and the data can be transmitted with an external card reader



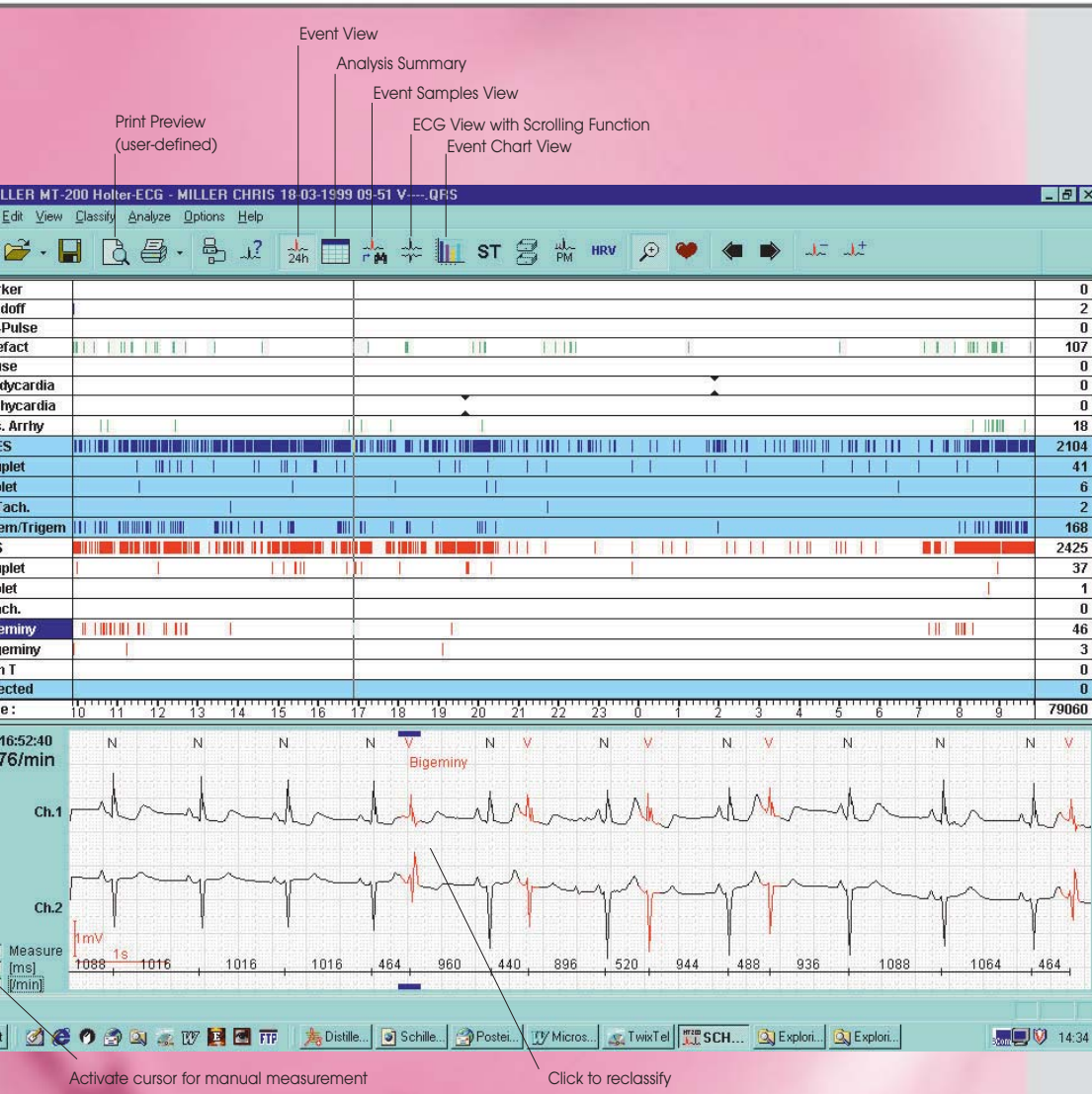
Digital long-term comfort

- Backlit graphical LCD and multilingual menu control
- Choose between a 2- and 3-channel ECG by using either a 4- or 6-lead patient cable
- Memory: Storage on SD card
- Sampling rate: Adjustable 500 Hz
- Galvanically isolated and defibrillation-protected ECG
- USB interface



for physicians and patients

- Rechargeable, environmentally-friendly battery of ≥ 2300 mAh capacity can be used as well as single-use alkaline batteries (AA)
- Before starting a Holter recording you can check the quality of the ECG signals in the MT-200 program or directly on the MT-101 LCD
- Recording capacity: Up to max. 72 hours (with minimum 64 MB)
- Data transmission from the MT-101 to the MT-200 analysis programme via integrated USB interface or via external SD card reader
- Holter carrying pouch made out of kind to skin Neoprene material

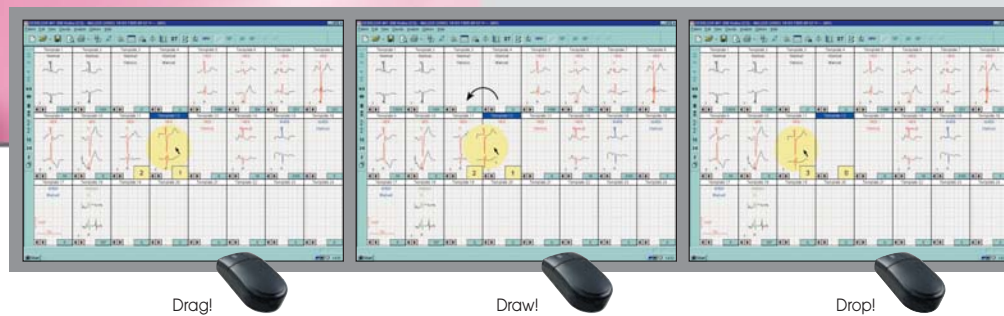


The event screen is unique!

Throughout the recorded period, the view shows the arrhythmias that have been detected, divided into groups: SVES, VES and miscellaneous. This type of display, with grouping and colour-coding, is the "optimal overall assessment tool" for practitioners!



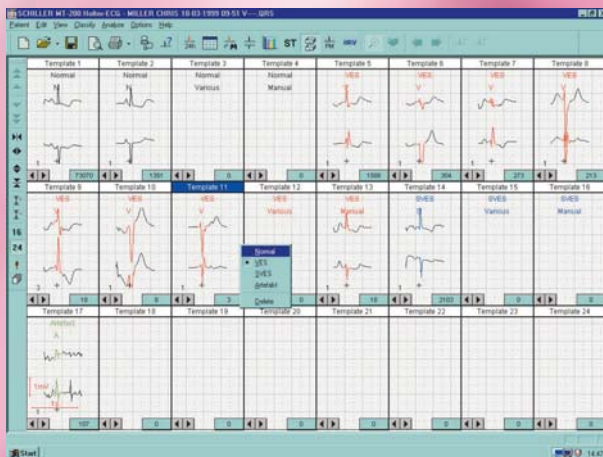
MT-101 recorder with MT-200 evaluation software



Fantastic: Reclassify in just 2 seconds

The "Drag&Drop" function means that you can regroup one whole class with another: click (Drag), move the mouse key to the target class you want (Draw), and release (Drop). In just 2 seconds, the whole class is reclassified and evaluation of the results is automatically adjusted!

Insight into the smallest details!

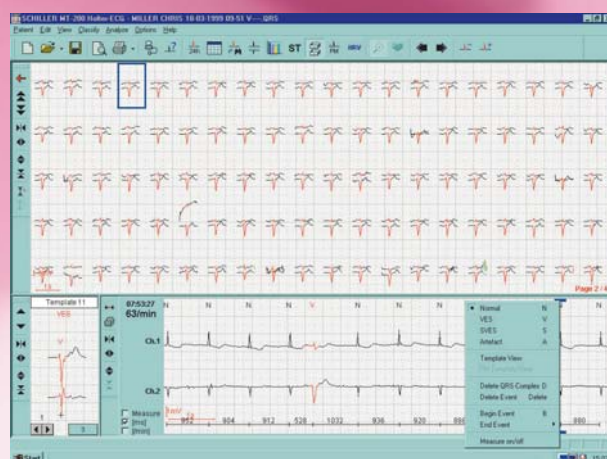


24 different template classes, with all complexes in each class, displayed at will.

Simply by clicking with the mouse, you can view the individual QRS complexes in this template.

Overview of 100 QRS complexes!

And that's still not all – at the same time, the Zoom window shows you the enlarged multi-channel ECG display with an indication of the time, heart frequency and the legend before or after this QRS complex. At the bottom left, you are shown the reference beat and the number QRS complexes for this template.



Another unique option! Template matching

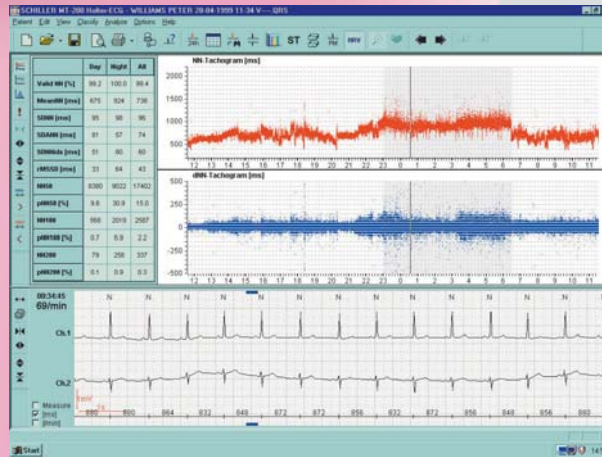
The MT-200 program automatically classifies 20 different ventricular and supraventricular events with a very high level of reliability (Couplet, Triplet, Bigeminy, Trigeminy, Absolute Arrhythmia, Tachycardia etc.). With the MT-200 program, QRS complexes with similar forms are automatically grouped into one template.

To give you a comprehensive overview of the different types of cardiac excitation spread, the program generates:

- A Maximum of 12 "normal" classes
- 1 "artifact" class
- A maximum of 300 different ventricular extrasystole "VES" classes
- And a maximum of 12 different supra ventricular extrasystole "SVES" classes

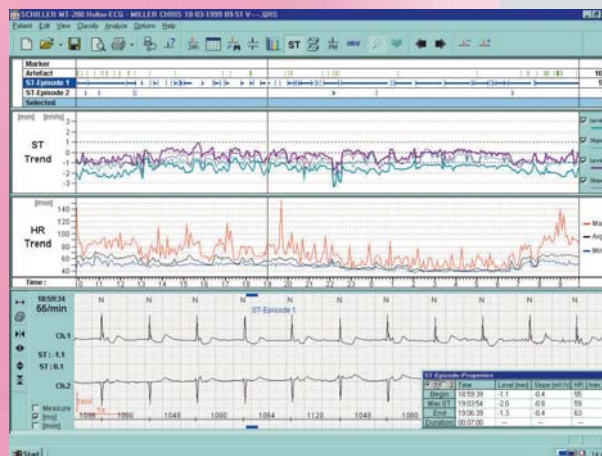
However, you can also carry out your own re-classifications.

For fast, clear analysis.



Analysis of Heart Rate Variability in the time domain

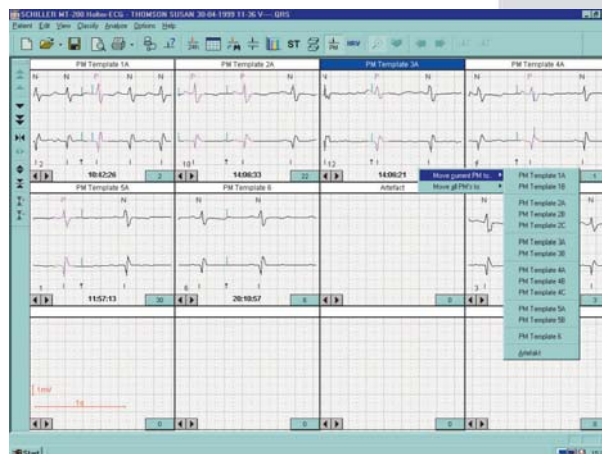
The SCHILLER analysis graphically highlights the important difference between day (active phase) and night (quiescent or resting phase). All the numerical values are also split into day, night and total.



ST and HR trend overview

Displays the ST amplitude and slope for both channels throughout the entire recording period. ST changes can be detected immediately and can be compared with the HR trend.

A large range of options so that you can select the ones you need!



Display of Pacemaker Templates

Pacemaker templates show pacemaker pulses occurring in the atrium, the ventricle, and in both. Templates are also given for pacemaker malfunctions such as in the T-wave.

Technical Data:

ECG:

ECG amplifier:

- Galvanically isolated 5.5 kVDC
- Input impedance: >10 MΩ
- Maximum electrode potentials: ± 300 mVDC
- Common mode rejection: > 80 dB
- Dynamic range: ± 5.12 mVAC
- Frequency range: 0.05 – 150 Hz (-3 dB)
- Digital resolution: 2.5 μV, 12 bit
- Sampling frequency: 500 Hz
- Pacemaker detection: ± 2..200 mV / 0.1..2 ms

Patient cable:

- 2-lead: 4 electrodes
- 3-lead: 6 electrodes

System:

Dimensions: 94 x 61 x 20 mm, approx. 110 g (including battery)

Data recording: Simultaneous 2- or 3-channel recording, differential

Power consumption: ~95 mW (recording)

Battery:

- 1 pc. AA Alkaline 1.5 V (Energizer or equivalent)
- Rechargeable accumulator, 1 x AA NiMH with 1.2 V and capacity ≥ 2300 mAh

Storage medium: 64 MB SD Memory Card

Data transmission from MT-101: With integrated USB interface or removable SD card

User interface:

- Graphic LCD, 98 x 64 dots
- 2 button operation with menu-controlled system software
- Built-in real time clock with various date formats
- Battery status
- Recording status
- Voice recording for patient data
- Various languages

PC requirements:

- WINDOWS™ 2000 or XP
- Pentium 600 MHz or better
- 4 GB hard disk (10 GB recommended; one record approx. 15 MB)
- Software requires 10 MB free hard disk space
- 128 MB RAM (256 MB RAM recommended)
- Monitor resolution XGA 1024 x 768

Software features MT-200:

- Save in PDF-Format (Portable Document Format)
- E-Mail-Function
- Multiple analysis
- Connection to the SCHILLER SEMA-200 Data Management System
- HR trend
- ST analysis (option)
- HR variability (option)
- Template matching (option)
- Pacemaker templates (option)

Accessories:

- Also available with PCMCIA adapter

Standards:

Safety Standards: IEC/EN 60601-1; UL 60601-1; C22.2 No. 601.1-M90; IEC/EN 60601-2-47; IEC/EN 60601-1-2 (EMC)

Protection Class: Internal power supply

Applied Part: CF according IEC/EN 60601-1

Conformity: CE 0123 according Directive 93/42/EEC (Medical Devices)

Classification: IIa according Directive 93/92/EEC

Ambient conditions:

- Temperature during operation: 10° to 40° C
- Temperature during storage: -10° to 50° C
- Relative air humidity: 25 to 95 % (non-condensing)
- Pressure: 700 to 1060 hPa

Technical data and images are subject to technical changes due to continuous innovation.

12/05



Part no.: 2.500230

Your specialist:

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