Simply exceeds your expectations:

- Resting ECG
- Vector Cardiography
- Late Potential Analysis
- QT Dispersion
- Exercise ECG
- Ergospirometry
- Spirometry
- SEMA
- 24-h Holter ECG
Success through Innovation!

The CARDIOVIT CS-200 is a multitasking system solution, combining proven diagnostic capabilities with the most widely accepted user-interface.

The CARDIOVIT CS-200 is the key to complete diagnostic services, including:
- 12-channel Resting ECG
- Automatic ECG measurements and interpretation (adult and pediatric)
- Vector Cardiography
- Pacemaker measurement
- QT Dispersion
- 12-channel fulldisclosure Exercise ECG, with ST monitoring and rhythm monitoring
- 24-h ECG Holter
- Fully integrated data management system
- Connection to network systems
- Resting rhythm recording
- Analysis of Ventricular Late Potentials
- Spirometry
- Ergospirometry

The open system architecture allows the implementation of new programs, future system expansion and network integration.
DVD recorder: an easy way to update the system software or to archive the data.

Direct function keys provide single button operation for immediate ECG printouts.

Full-size keyboard with integrated trackball and diskette drive.

Integrated thermal printer or external printer of your choice.

**Hardware Details**

**Filter**
- **SCHILLER Powerline Filter (SPF):** Distortion-free suppression of superimposed 50 or 60 Hz sinusoidal interferences by adaptive digital filtering

- **SCHILLER Smoothing Filter (SSF) / SCHILLER Myogram Filter (SMF-muscle tremor filter):**
  - 25 Hz/35 Hz low pass smoothing filter to suppress muscle tremor and high-frequency noise, without bothering the QRS complex

- **SCHILLER Baseline Stabilizer (SBS):** Filter to suppress or greatly reduce baseline fluctuations without changing the measurement values (for Resting and Exercise ECGs)
The innovative ECG System for the Diagnostic Professional!

**CS-200 Resting ECG**

**Good Lead Quality saves Time**
The exceptionally high digital sampling rate (2000 samples per second) recognizes every nuance of an ECG for maximum accuracy.

The CARDIOVIT CS-200 produces perfect ECG recordings every time by utilizing SCHILLER’s unique filter technology and electrode hook-up test.

**Connect with the Future**
The CARDIOVIT CS-200 can be integrated directly into a user network through standard technologies allowing for central archiving and data access from various locations.

**Ready to go at all Times**
The integrated back-up battery guarantees basic system operation during power failures or in emergency situations. Automatic ECG recording and real-time printouts are available without delay.
The CARDIOVIT CS-200 diagnostic workstation combines proven ECG diagnostic performance with the most advanced computer technology available.

- Built-in, full page thermal printer
- Real-time ECG recording
- Integrated data management system SEMA-200
- Windows™ user-interface
- Network capabilities

The unique modularity of the CARDIOVIT CS-200 allows physicians to configure the system to meet their individual needs for professional diagnostics. In addition to resting ECG, the CARDIOVIT CS-200 may be utilized to perform exercise testing and Holter monitoring with the highest level of user comfort and reliability.

The CARDIOVIT CS-200’s built-in thermal printer records 3, 6, or 12 channels simultaneously in real-time. The outstanding print resolution and wide selection of print formats make each report truly impressive.

Reports may even be generated on the optional laser printer using plain paper. Each CARDIOVIT CS-200 comes with automatic measurements for all 12 standard leads.

The optional interpretation program generates automatic adult and pediatric interpretation statements. Interpretative statements can easily be edited before printing or archiving. Global measurements points can also be edited.
Exercise Testing for the Professional!

CS-200 Exercise Testing

Access the World of PC Technology
An electrocardiograph with the properties of a personal computer!
- Large color screen with XGA resolution for paperless operation
- Windows™ operating system
- Data management solution SEMA-200 for archiving and management of data
- Open system architecture for networking
- Common printer interface for documentation on standard (A4) paper
- Selection of built-in storage solutions (hard disk, diskette, CD-R/RW (option) etc.)
- Integration with existing management and information systems

The CARDIOVIT CS-200 – the exemplary Exercise Testing Solution
The CARDIOVIT CS-200’s exercise testing module fully demonstrates the system’s capabilities. The large, color display provides clear monitoring throughout the entire test. Vital information at a glance for maximum patient safety and test reliability. Printouts are generated at pre-programmed intervals or at the simple push of a button.
The CARDIOVIT CS-200 controls a selection of peripheral equipment (ergometers, NIBP devices and treadmills) through integrated interface protocols. Standard, and user defined exercise protocols are stored. These can be changed according to the situation and individual preferences as desired. Manual intervention to modify an ongoing protocol is possible at any time. From the beginning, the exercise test runs automatically so the user is able to fully concentrate on the patient without distraction.

Continuous ST Analysis
The EXEC analysis program computes continuous ST measurement for all 12 leads.

High Level of Recording Quality when it counts
Use of multiple digital filters, such as SBS SCHILLER Baseline Stabilizer or SIF SCHILLER Smoothing Filter, reduces muscle artifact and baseline wander without changing the tracing fidelity.

ECG Memory
All exercise tests are stored in the form of a detailed final protocol. The complete test is stored. The CARDIOVIT CS-200 provides tools for posttest diagnostics, measurements and/or documentation of the recordings.
Managing Information

Simple to operate and learn
SEMA-200 is designed for daily use. Symbols, accessible by mouse, enable quick learning and intuitive operation.

Data Collection
SEMA-200 is installed directly onto the CARDIOVIT CS-200 workstation. Data can also be transmitted from any SCHILLER product equipped with a communication interface.

Data Management
Collected test data can easily be managed by patient name or ID, type of recording, including date and time or administrative status (validated, printed, sent, archived etc.).

Serial Test Comparison
Multiple tests of the same patient can be compared side by side, an ideal tool for monitoring patient history or the effectiveness of therapy. Resting ECG only!

Archiving
SEMA-200 stores acquired data forever and in any quantity. The program’s compatibility with almost any current PC storage techno-
SCHILLER’s SEMA-200 data management program provides comprehensive management of diagnostic data from:

- Resting ECG
- Exercise Testing
- QT Dispersion
- Spirometry
- Ergospirometry
- Analysis of Ventricular Late Potentials
- Vector Cardiography
- Holter ECG

The program contains the following functions:

- Validation with comprehensive editing tools
- Serial comparison
- Batch processing
- Archiving
- Network connection/integration
- Data communication (option with SEMACOM)
- Import/export for HIS integration

SEMA-200 is a Windows™ XP Professional compatible application and may be run on the CARDIOVT CS-200 workstation, in a network or a stand-alone personal computer.

Networking
SEMA-200 fits seamlessly into networks providing access to data from different sites. Passwords and access limitations protect the unauthorized manipulation of stored information. SEMA-200 runs on all current PC-based network solutions.

Data Transmission
SEMA-200 communicates via direct cable or telephone modem to all SCHILLER equipment via the RS-232 interface. Data files can also be sent via the Internet.

Open System Architecture
SEMA-200 is ready to be integrated into existing information systems.
Estimating Arrhythmic Risk!

CS-200 Late Potential Analysis

- Recognise Ventricular Late Potentials thanks to signal averaging and high pass filtering
- Gain time thanks to straightforward measurement data recording; a single key stroke suffices
- Comprehensive and clear evaluation within the shortest possible time
- QRS start and end of vector amplitude can be edited on-screen
- The optimum reference ECG lead for signal averaging can be defined automatically or can be selected by the user

Particularly for patients who have suffered a myocardial infarction, micro-potentials after the QRS complex indicate a higher risk of sudden cardiac death. The existence of Ventricular Late Potentials indicates an arrhythmic substrate that can cause re-entry circuits and may result in potentially lethal arrhythmia.

With the SCHILLER Late Potential analysis. It is possible to measure in Frank or in bipolar leads. The analysis is made within the time domain.

Signal averaging* on a selectable quantity of heartbeats improves the signal/noise ratio. Together with a matured high-pass filter technique* it enables recognition of the Ventricular Late Potentials.

The following parameters* are determined automatically:
- High frequency QRS interval
- The RMS value of the last 40 msec.
- The portion of vector amplitudes below 40 μV (0.45 mV; low amplitude signal)

The limit values of these parameters identify whether or not a patient has Ventricular Late Potentials and are given in the acronyms of the interpretation.*

* The SCHILLER Late Potential analysis conforms to standards issued by the Task Force Committee of the European Society of Cardiology, the American Heart Association and the American College of Cardiology, in accordance with the publication entitled "Standards for Analysis of Ventricular Late Potentials Using High-Resolution or Signal-Averaged Electrocardiography", G. Breithardt, M.E. Cain, N. El-Sherif, N. Flowers, V. Hombach, M. Janse, M.B. Simson, G. Steinbeck. JACC 1991; Vol. 17 (5) RR-100.
Non-invasive Method for Identifying the Risk of Lethal Arrhythmia!

Using the CARDIOVIT CS-200 or other SCHILLER ECG machines and the SEMA-200 diagnostic systems, it is possible to determine the spatial QT dispersion in the resting ECG. The software calculates the QT interval in each ECG lead.

The average of the QT intervals and the standard deviation of all QT intervals are calculated from the mean value. In addition, the minimum and maximum QT intervals and the lead in which they occur are specified.

The program also calculates the difference of the QT interval in each lead to the calculated average QT interval ($\Delta QT$). And finally, the difference between the maximum and minimum QT interval is also analysed as $\Delta_{max} QT$. This is considered as a particular indicator for QT dispersion.

The QT times can be corrected manually for all leads.

QT dispersion indicates how inhomogeneous the ventricular repolarisation is. The greater the QT dispersion, the more inhomogeneous the ventricular repolarisation is and the greater the risk for a sudden cardiac death of the patient.

QT dispersion analysis can be used as a further non-invasive method – in addition to Late Potential analysis and heart rate variability – for patients with an increased risk of life-threatening arrhythmia.

Recognise the non-invasive risk indicators of increased arrhythmic risk using the Late Potential analysis and QT dispersion analysis programs obtainable from SCHILLER – both can be run on the CARDIOVIT CS-200. Examine heart rate variability using the 24-hour MT-101/200 ECG analysis system.
The Innovative Diagnostic System!

CS-200 Spirometry

In addition to:
- 12-channel Resting ECG
- 12-channel Exercise ECG
- 24-hour Holter ECG
- QT dispersion
- Vector Cardiography
- Late Potential analysis
- Integrated data management for all the above examinations
- The diagnostic station CARDIOVIT

CS-200 now also offers pulmonary function testing as an option. This new possibility completes the clinical requirements of non-invasive diagnostic.

As always, SCHILLER uses the latest technology to simplify pulmonary function testing.

Comprehensive Pulmonary Function Testing
Four measurement programs for inspiratory and expiratory tests are available: FVC, SVC, MVV and MV, with nominal/actual differences calculated automatically and pre/post medication comparisons to aid diagnostics.

Easy Operation
One button push starts the tests. Tests can be carried as many times as desired with the results clearly displayed on the large monitor. The flow volume trace is shown in real-time and in color.

Storage and Printing
Pulmonary function data is saved using the on-board data management SEMA-200; all previous examinations are easily accessed and viewed on the monitor.

Interpretation/Diagnosis
The software gives diagnosis indications when requested. You can select firm terminology from a data bank (acronyms) and extend it with your own text.

Long-Term Comparisons/Trends
When a series of recordings from one patient is available, trend traces can be shown.

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When a series of recordings from one patient is available, trend traces can be shown.
All in one:
- Simultaneous presentation of 12 ECG and spirometry flow curves with possibility to compare all parameters
- Real Breath-by-Breath gas determination of metabolic and hemodynamic parameters during rest and exercise tests
- Bi-directional flow sensor insensitive to moisture
- Two monitors for the testing system
- Limit monitoring of any parameter with alarm functions
- Automatic control of ergometer, using configurable profiles
- Compact system
- Economical, as all accessories are sterilizable and reusable
- Network ability of CARDIOVIT CS-200 Ergo-Spiro

A Multitude of Functions – all in one Device!
The CARDIOVIT CS-200 Ergo-Spiro from SCHILLER: The complete function analysis of heart, lung, blood circulation and metabolism. With this all areas of cardiopulmonary diagnostics are covered. Whether for cardiology, pneumology, sports and industrial medicine, this multifunctional exercise testing system is the solution for every need.

Breath-by-Breath Analysis!
Every breath and every heartbeat is analyzed according to the individually set parameters and shown on the monitors in real time. With its monitor the one-of-a-kind CARDIOVIT CS-200 Ergo-Spiro allows the direct visual comparison of ergospirometrical and ECG data! Various interfaces warrant perfect data exchange of the saved values to Patient Data Management Systems (PDMS).
Template Matching in the MT-101/200 long-term ECG System

MICROVIT MT-101/200 Holter System

The MT-200 program classifies automatically and with very high reliability 20 different ventricular and supraventricular events (couplets, triplets, bigeminy, trigeminy, absolute arrhythmia, tachycardia etc.). During template matching QRS complexes with the same shape are automatically grouped in a pattern template by the MT-200 program.

The program altogether forms, up to 12 “normal” templates, 1 “artefact” template, up to 300 different ventricular extrasystole or “VES” templates and up to 12 different supraventricular extrasystole or “SVES” templates, thereby providing you with a comprehensive summary of the heart’s various stimulation types (spreads of stimulus).

With a click of the mouse you can examine the individual beats in the template. Reclassification of whole templates and individual QRS complexes is very simple: press the right mouse-button and select “Normal”, “VES”, “SVES”, “Artefact” or “Delete” from the menu.
Important:
You do not need previous PC experience in order to use the SCHILLER MT-200 analysis program.

'Drag&Drop' Function
You can combine one whole template with another click on it, move to the appropriate target template with the mouse-button depressed (drag) and release (drop). By this means the whole template is re-classified in two seconds; event analysis is modified automatically.

The SCHILLER MT-101/200 long-term ECG system has decisive advantages such as:
• Direct testing of ECG signal quality from the PC before recording starts
• The exceptionally small and light MT-101 Holter recorder
• WINDOWS™ NT/2000/xp-based MT-200 analysis software (state of the art)
• Summary showing trend in ST and heart-rate

The SCHILLER MT-101/200 long-term ECG system includes the following options:
• Analysis of 2 channels in different combinations
• ST Analysis
• Template Matching
• HR Trend overview
• HR Variability
• Pacemaker Templates
• Reclassification in less than 2 seconds with ‘drag&drop’ function
**CARDIOVIT CS-200**

**Technical Data:**

**System:**
- Dimensions: 60.6 x 18.3 cm (x x h)
- Weight: 11 kg
- Montage: A1, B1, C1
- Operator Interface:
  - Standard alphanumeric PC keyboard with built-in mouse
  - Menu
  - Direct function keys for Heart Rate, MAN/MAN/AUDI-ECG
- Power requirements: 100-240 V (50 Hz/60 Hz), 0.25 A
- Battery: Built-in rechargeable battery (SBP): provides at least 3 minutes of back-up power to system and printer (without optional equipment) at power failure.
- Operating system: BROADBAND MP Professional multilingual
- Storage medium:
  - Hard disk
  - 3.5" diskette drive, 1.44 MB
  - DVD/RW
- Hardware Options:
  - Laser or inkjet printer
  - ECG cable arm
  - Electrode vacuum system
  - Teardrop (manicurist or reeding ergometer)
  - BP-200 plus blood pressure device
- All hardware options may be added at any time and are easily retrofitted.
- Printing:
  - Chopper: Thermodotac, 90°, width: 44, upper 60 mm
  - Printing process: Built-in high-resolution thermal printer, 8 dots/mm.
  - Paper speed: 3 / 6 / 12 / 25 / 50 mm/sec.
  - Resolution: 203 / 303 dots/mm (automatic bidirectional)
  - Font: 12
  - External printer (optional):
    - Print format: Ready-to-file
    - Chart paper: Built-in high-resolution thermal printer, 8 dots/mm
    - Printing: Full disclosure rhythm review
  - Filter: SBS SCHILLER Baseline Stabilizer: filter to suppress or amplify baseline fluctuations while changing the measurement values (for Resting and Exercise ECG's).
- Optional unit version:
  - 200 measurements
  - Signal from external ECG source
  - BP SCHILLER Smoothing Filter, BP SCHILLER Myogram Filter: muscle tremor filter: 25 Hz / 35 Hz low pass smoothing filter to suppress muscle tremor and high-frequency noise, without bothering the QRS complex.
- **Resting ECG:**
  - Simultaneous acquisition of all 8 active electrode signals from 12 leads.
  - Sampling frequency: 6000 Hz.
  - Pacemaker detection: a 2 mV peak.
  - Emergency ECG:
    - Resting rhythm with event marking.
    - Digital filtering to reduce baseline fluctuations without changing the measurement values.
    - Distortion-free suppression of superimposed 50 or 60 Hz interferences by adaptive digital filtering.
- **Exercise ECG:**
  - Arrhythmia detection and review.
  - Automatic selectable and programmable exercise protocols for bi- and tracordial.
  - Automatic NIBP measurement.
  - Enhanced G5 complex with superimposed reference beat selectable for each lead.
  - Real-time continuous ST analysis, amplitude and slope graphic.
  - Online ST measurement adjustment.
  - Skin conductance possibility of complete exercise test with ST, HR, and NBP trend graphic.
  - Brad scales, symptom and point criteria tables.
  - Comprehensive management of diagnostic data of patient data.
  - Late Potential analysis (time domaine).
  - Vector Cardiography.
  - Computer-aided ECG interpretation for pediatric and adult ECGs (C).
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  - Vector Cardiography.
  - Computer-aided ECG interpretation for pediatric and adult ECGs (C).
- **BP-200 plus Blood Pressure Measurement (Optional):**
  - Systolic: 10 / 110 mmHg.
  - Diastolic: 20 / 110 mmHg.
  - Heart rate: 40 – 200 BPM
  - Measurement range:
    - Systolic: 50 – 250 mmHg.
    - Diastolic: 20 – 150 mmHg.
  - Measurement intervals:
    - Heart rate: 20 – 200 BPM.
    - Memory capacity: 250 measurements.
    - Indicator for user:
      - On screen message and audio tone for user defined ranges.
  - Standard accessories:
    - User guide
    - Vector fixing pads to secure cuff
    - Adhesive pads to fix the microphone
    - Sinus power supply
    - Headphone
    - Communication cable to stress test system
    - 12-lead highsensitivity as defibrillator cable.
  - Optional accessories:
    - USB interface
    - Menu guidance 5 buttons
    - 5.7" LCD
    - Battery charger
    - USB interface
    - Menu guidance 5 buttons
    - SPO2 with cable and ear-sensor
    - QRS-trigger cable
    - Communication cable to stress test system
    - Monitor:
      - Size: 17" TFT LCD
      - Resolution: 2048 x 1536 pixels
      - Refresh rate: 60 Hz
      - Contrast: 400:1
      - Brightness: 250 cd/m²
      - Viewing angle: 170°/170°
      - Safety Standards:
        - SCHILLER Myogram Filter: muscle tremor filter: 25 Hz / 35 Hz low pass smoothing filter to suppress muscle tremor and high-frequency noise, without bothering the QRS complex.
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Technical Data:

Spirometry:
- Measured values: FVC, FEV1.0, FEV0.1, FEV0.5, FVC, FEV1.0/FVC, FEF25-75, FEF75-85, FEF200, FEF25-75%, FEF75-85%, PEF, PEF50, PEF25, MEF50, MEF25, MEF75, MEF25, MEF50

Technical Description Gas Analyzer:
- Measurement range: 0 to 17.5 % CO
- Measurement accuracy: ±0.25 %
- Measurement range 0 to 20,000 ppm
- Measurement accuracy: ±0.5 %
- Measurement range 0 to 100 mL
- Measurement accuracy: ±0.2 mL
- Measurement range 0 to 300 L
- Resolution: 10 mL/sec
- Gas analyzer: 
  - Response time: < 80 msec. (10 to 90 %)
  - Measurement accuracy: Better than ±0.2 %
  - Measurement range: 0 to 17 l/sec., max. deviation ±2.5 % of the measured value
- Calibration syringe: P/N 2.100027

Power supply:
- 100 – 240 V, 50/60 Hz
- 24 V DC

PowerCube produced by Ganshorn Medizin Electronic GmbH, Germany.

Ergo-Spirometry:
- Ergo-Spirometry: It fully complies with SCHILLER's view on quality.
- Niederlauer, Germany, has been integrated into the CARDIOVIT CS-200 program for inspiratory and expiratory pulmonary function testing.

Gas Analyzer:
- Niederlauer, Germany, has been integrated into the CARDIOVIT CS-200 program for inspiratory and expiratory pulmonary function testing.
- Flow measurement (patented diaphragm spiroceptor):
  - Flow volume processing according to ECCS or ATS standards
  - Measurement range: 0 to 300 L, resolution 10 mL/sec.

Safety Class:
- Safety Class: IEC 60601-1:2005
- Power supply: 100 – 240 V, 50/60 Hz
- Galvanically isolated: 5.5 kVDC

Battery:
- Battery: 1 pc. AA alkaline 1.5 V (Energizer or equivalent)

Weight:
- Weight: 2.35 kg

Dimensions:
- Dimensions: 375 x 350 x 180 mm, approx. 62 kg

Operating Condition:
- Operating temperature: 15 to 30 °C
- Relative humidity: Between 20 and 80 %
- Atmospheric pressure: Between 400 and 800 mBar

The PowerCube produced by Ganshorn Medizin electronic GmbH, Germany has been integrated into the CARDIOVIT CS-200 Ergo-Spirometry. It fully complies with SCHILLER's view on quality.