



SCHILLER'S MEDILOG HOLTER SYSTEM

Sophisticated and precise ECG analysis that meets the highest demands



SCHILLER
The Art of Diagnostics

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Save time and uncover cardiovascular risks at a glance: with the medilog Holter system

The medilog Holter system offers unparalleled analysis advantages.

- Instantaneous atrial fibrillation detection
- Respiration analysis
- Recording upload from remote locations



SCHILLER's medilog Holter system offers much more than just arrhythmia detection: It provides a comprehensive analysis of the patient.

Atrial fibrillation detection in an extremely short time, respiration analysis and the assessment of the quality of life are just some of the exceptional features of the medilog Holter system.

A UNIQUE SET OF SOPHISTICATED TOOLS

- Real-time P-wave detection for accurate atrial fibrillation screening
- PureECG technology for superior signal quality
- ECHOView for instantaneous detection of atrial fibrillation onset
- Respiration analysis during sleep with synchronised ECG, respiration waveforms, and SpO₂ readings
- Fire of Life: a brilliant approach to Heart Rate Variability analysis

THREE DIFFERENT SOLUTIONS AVAILABLE

medilog DARWIN2 offers maximum flexibility with configurable reports, user-defined screen layout and workflows. Meets all requirements:

- medilog DARWIN2 Office: optimised for routine application in physicians' offices
- medilog DARWIN2 Professional: perfect for a small to mid-sized Holter scanning centre requiring fast atrial fibrillation detection
- medilog DARWIN2 Enterprise: for the most demanding research centres and high-volume hospitals. Includes atrial fibrillation, respiration analysis, SpO₂, and an option for scanlab web-service



All versions¹ provide floating licences, option for multi-tenancy, connectivity to HIS, and SCHILLER's data management solution SEMA.

¹ All three medilog DARWIN2 versions are compatible with all SCHILLER medilog recorders since 2007: medilogFD, medilogAR, FD12plus, AR12plus, AR5plus, AR4plus, FD5plus, AR12, AR4, MT-101, BR-102 plus

MEDILOG RECORDER OPTIONS

FIND THE OPTION THAT SUITS YOUR REQUIREMENTS:

	medilogAR Office	medilogAR Professional	medilogAR Enterprise	medilogFD
ECG leads	3 leads (5 or 7 wires)	3 leads (5 or 7 wires)	3 leads (5 or 7 wires)	12 leads (10 wires)
Sampling rate	32,000 Hz	32,000 Hz	32,000 Hz	up to 128,000 Hz
Battery concept	rechargeable internal & AAA	rechargeable internal & AAA	rechargeable internal & AAA	rechargeable internal & AAA
Recording duration	14 days	14 days	14 days	120 hours/5 days
Bluetooth	x	x	x	x
P-wave detection		x	x	x
Respiration			x	x
SpO ₂ (optional)			x	x

THREE MOUSE CLICKS TO A REPORT

medilog DARWIN2 is designed to maximise speed and ease of use. The automatic analysis of a 24-hour Holter recording takes less than 90 seconds, with extremely accurate results. Generate a comprehensive report with only three mouse clicks.

99.86 % ACCURACY WITH MEDILOG ADAPT

The medilog ADAPT algorithm has a 99.86% accuracy in beat detection.² All recorded channels are analysed and excessively noisy episodes are automatically excluded. As a result, the automatic analysis is greatly improved, saving time in the final report generation.

3-LEAD AND 12-LEAD RECORDERS

The medilogAR and medilogFD recorders are the solid basis for analysis, interpretation, and storage with medilog DARWIN2. They are equipped with the following features:

- ❖ Zero-second atrial fibrillation/atrial flutter detection based on true P-wave analysis
- ❖ Latest technology for a new standard of signal quality, artifact suppression, and motion detection
- ❖ Voice recording, allowing healthcare specialists to easily store patient information before starting the recording
- ❖ Robust, shock- and splash-proof as well as easy to clean
- ❖ Flexible dual-battery concept for more than 14 days (medilogAR) or up to 120 hours (medilogFD) of recording duration

- ❖ Removable patient cable with 5 wires for 3 channels, alternatively with 7 wires for enhanced reliability (medilogAR) and up to 10 wires for 12 leads (medilogFD)
- ❖ Bluetooth: Transfer patient data to the recorder, check the live ECG on the PC and connect the SpO₂ sensor (optional, medilogAR Enterprise and medilogFD only) via Bluetooth
- ❖ Delivered with a robust carrying case with various carrying options

² Obtained in comparison with the MIT-BIH database using DARWIN2.10.1, released in December 2021 (QRS Se: 99.86%, QRS +P: 99.91%), according to IEC 60601-2-47:2012

ATRIAL FIBRILLATION

P-WAVE DETECTION AND ECHOVIEW

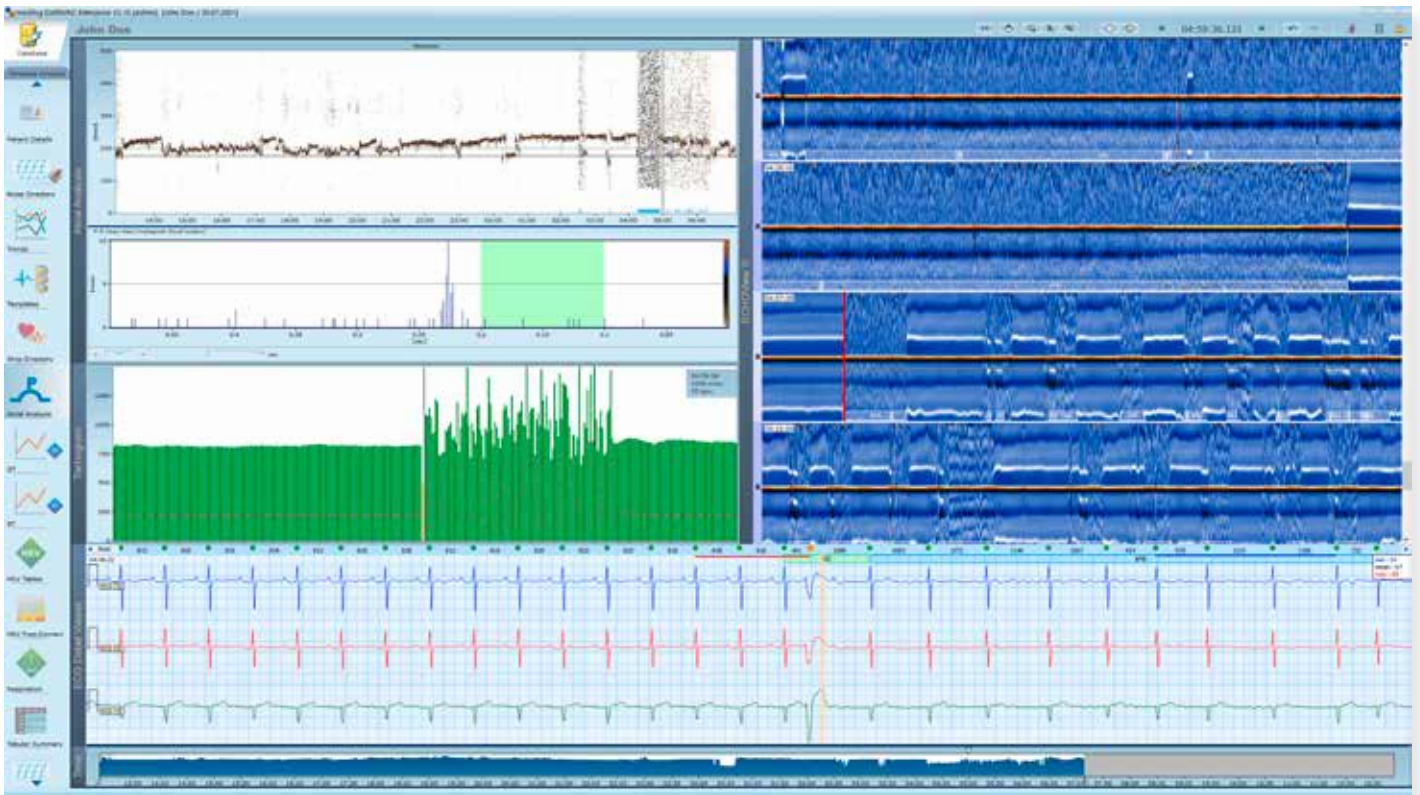
The high-end medilog recorders offer unparalleled signal quality in Holter recordings. Using state-of-the-art amplifiers with up to 32,000/128,000 Hz and advanced filter technology, the medilog recorders detect P waves in real time. When using medilogAR Professional, medilogAR Enterprise, or medilogFD, even very short episodes of atrial fibrillation are automatically detected and listed in the strip directory with their onset and offset.

This tool is invaluable in following the ESC's Clinical Guidelines³ for classification. Distinguishing paroxysmal from persistent AF even in a recording of up to two weeks of the medilogAR or in a full 12-lead recording by medilogFD becomes a matter of seconds.

Without real-time P-wave detection, medilogAR Office analyses atrial fibrillation based on irregular rhythms.

ECHOView is a "bird's eye" view of the ECG, with clear representation of the P and T waves in each cycle. This innovative diagnostic tool makes it easy to identify patterns of irregular PR and QT intervals across 15,000 beats.

- ❖ Reduce cost and improve patient care with early detection of atrial fibrillation and atrial flutter
- ❖ Preliminary assessment of the need for invasive diagnosis, therapy, or surgery
- ❖ Effective patient monitoring following surgery or ablation



AV-block patterns and other critical anomalies are easily identified

RESPIRATION ANALYSIS

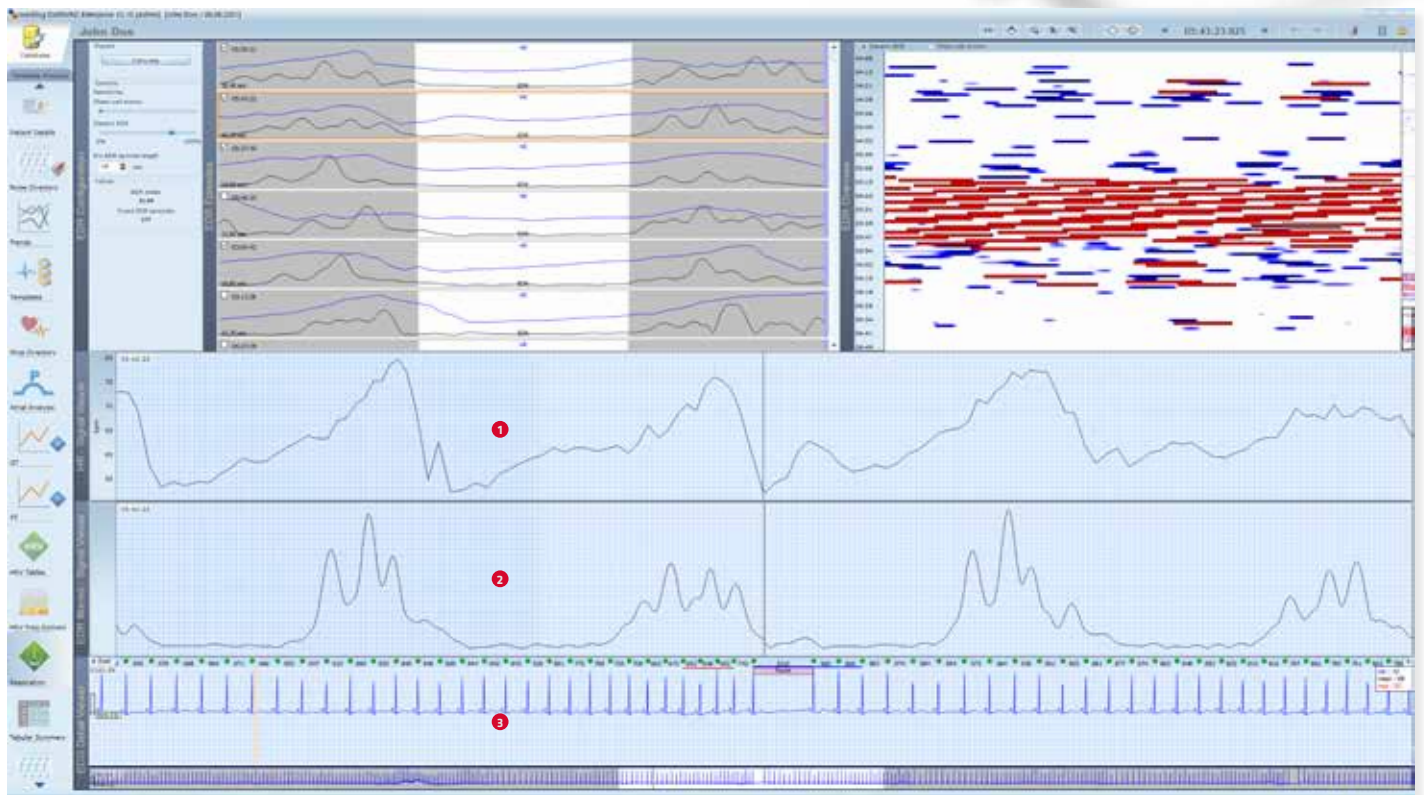
SYNCHRONISED ECG AND RESPIRATION CURVES

medilog DARWIN2 employs the method of ECG-derived respiration analysis. Thanks to the medilog recorder's high sampling rate and resolution, the results are highly accurate.

The synchronised display of ECG waveforms, heart rate trends, and respiration curves provides a valuable tool to thoroughly analyse the correlation between arrhythmias and respiratory episodes.

medilog DARWIN2 Enterprise offers a fast, reliable and inexpensive screening tool to exclude respiratory events in your patients.

- ❖ Early detection of respiratory episodes during sleep
- ❖ Low-cost, comfortable tool for tests at home
- ❖ Therapy assessment
- ❖ Review of sleep quality and evaluation of quality of life
- ❖ Optional SpO₂ sensor available, for the most comprehensive approach to respiration screening during sleep



Are arrhythmias caused by respiratory episodes? Synchronised ECG and respiration curves provide all the information at a glance.

- 1 Heart rate trend
- 2 Respiration curve
- 3 ECG

FIRE OF LIFE

A BRILLIANT, INTUITIVE APPROACH TO HRV ANALYSIS

Time-domain and frequency-domain Heart Rate Variability results are often difficult to interpret and traditionally require a time-consuming review.

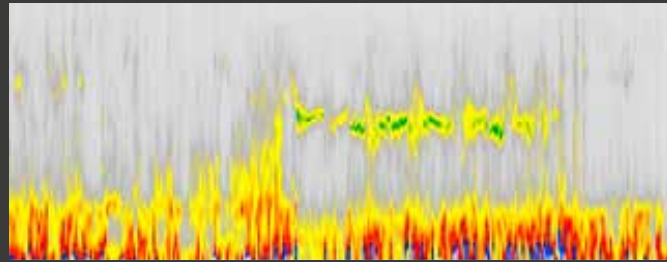
Fire of Life is a very intuitive visual presentation of frequency-domain HRV that makes the assessment of 24-hour results fast and simple.

Repeatable patterns of high- and low-frequency activity during day and night can be easily identified, providing information on sleep quality and stress level.

It can be used effectively in the occupational health sector to manage stress levels and sleep quality as well as in sports medicine to monitor the recovery process.

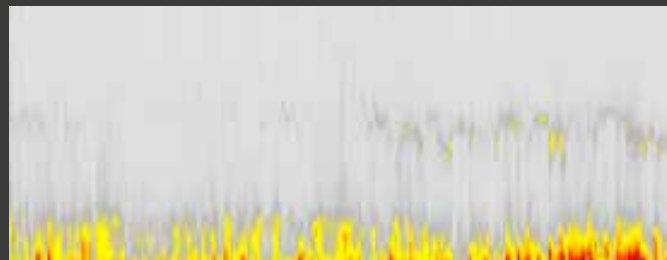
The Fire of Life evaluation is available with the recorders medilogAR Professional, medilogAR Enterprise and medilogFD and with the software versions medilog DARWIN2 Professional and medilog DARWIN2 Enterprise.

NORMAL REGULATION – and recovery during the night



Example 1: Swim trainer, woman, 23y, very good sleep quality, rhythmic sleep structure, very good capability for regeneration.

REDUCED REGULATION – overloaded, only little recovery at night



Example 2: 40-year-old manager, overloaded, stress-induced reduction of parasympathetic activation at night.

BLOOD PRESSURE ANALYSIS

USE ABPM-RECORDER AND EVALUATE WITH MEDILOG DARWIN2

medilog DARWIN2 software features the evaluation and reporting of ambulatory blood pressure measurements taken with BR-102 plus. For a well-founded cardiovascular risk assessment, pulse wave analysis is also available when using BR-102 plus PWA.



LIBERTY

UPLOAD YOUR RECORDINGS FROM ANYWHERE

medilog DARWIN2 Liberty is the perfect solution for Holter scanning service providers and hospitals with patients in remote locations. Fast turnaround will dramatically increase cost-effectiveness of the scanning service and improve patient care.

- Holter recordings can be uploaded from anywhere via a PC with an internet connection and a web browser: No need for dedicated client software at the remote location
- Patient data and waveforms can be displayed at the remote site for quality check
- The scanning service will review the Holter, analyse beat-templates and arrhythmias, and create the report
- An e-mail notification is sent, informing that the reports are available for review



Patients can easily and quickly maintain a diary of events that coincide with their ECG. To do this, they scan a QR code at the doctor's office, access the web application, and automatically save their data directly in their patient file.

PERSONALISE YOUR MEDILOG DARWIN2 REPORTS

- Brand your medilog DARWIN2 reports with your own logo
- Add or remove arrhythmia strips
- Add different trend views or diagrams for a specific recording
- If a patient shows very specific QT duration changes over time, just add this trend to your final report





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