

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 detect health 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 as a whole.

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



medilogAR: Lightweight, easy to clean, available with 5- or 7-wire patient cable

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 freely configurable reports, user-defined screen layout and workflows. The ideal solution for every requirement:

- ✦ medilog DARWIN2 Office: optimised for routine application in physicians' offices.
- ✦ medilog DARWIN2 Professional: perfect for a small to mid-sized Holter scanning centre with the need for 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: medilogAR, FD12plus, AR12plus, AR5plus, AR4plus, FD5plus, AR12, AR4, MT-101, BR-102 plus

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.



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 and saves time in the final report generation.

MEDILOG RECORDER

The medilogAR recorder is the solid basis for analysis, interpretation and storage with medilog DARWIN2. medilogAR is 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 allows health care 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-day recording duration.
- ❖ Removeable patient cable with 5 wires, alternatively with 7 wires for even more reliability.

- ❖ Bluetooth: Transfer patient data to the recorder, check the live ECG on the PC and connect the SpO₂ sensor (optional, medilogAR Enterprise only) via Bluetooth.
- ❖ Delivered with 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

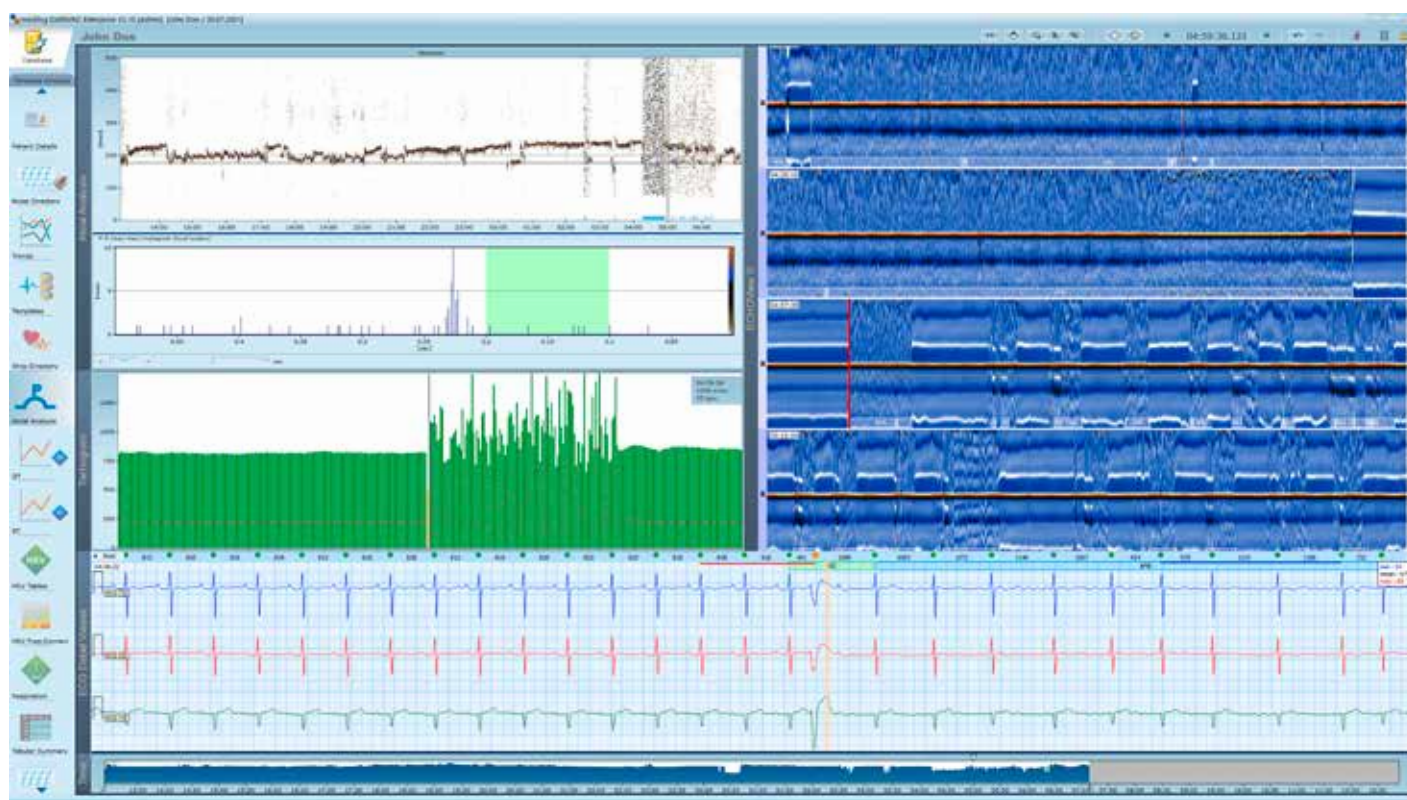
The high-end medilogAR recorder offers unparalleled signal quality in Holter recordings. Using state-of-the-art amplifiers with 32,000 Hz and advanced filter technology, the medilog recorder detects P waves in real time. When using medilogAR Professional or medilogAR Enterprise, even very short episodes 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 2 week recording of the medilogAR becomes a matter of seconds.

Not having real time p-wave detection, medilogAR Office analyzes Atrial Fibrillation based on irregular rhythms.

ECHOView is a "bird's eye" display of the ECG, with clear representation of the P and T waves in each cycle. This innovative diagnostic tool shows patterns of irregular PR and QT intervals of 15,000 beats at a glance.

- ❖ 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

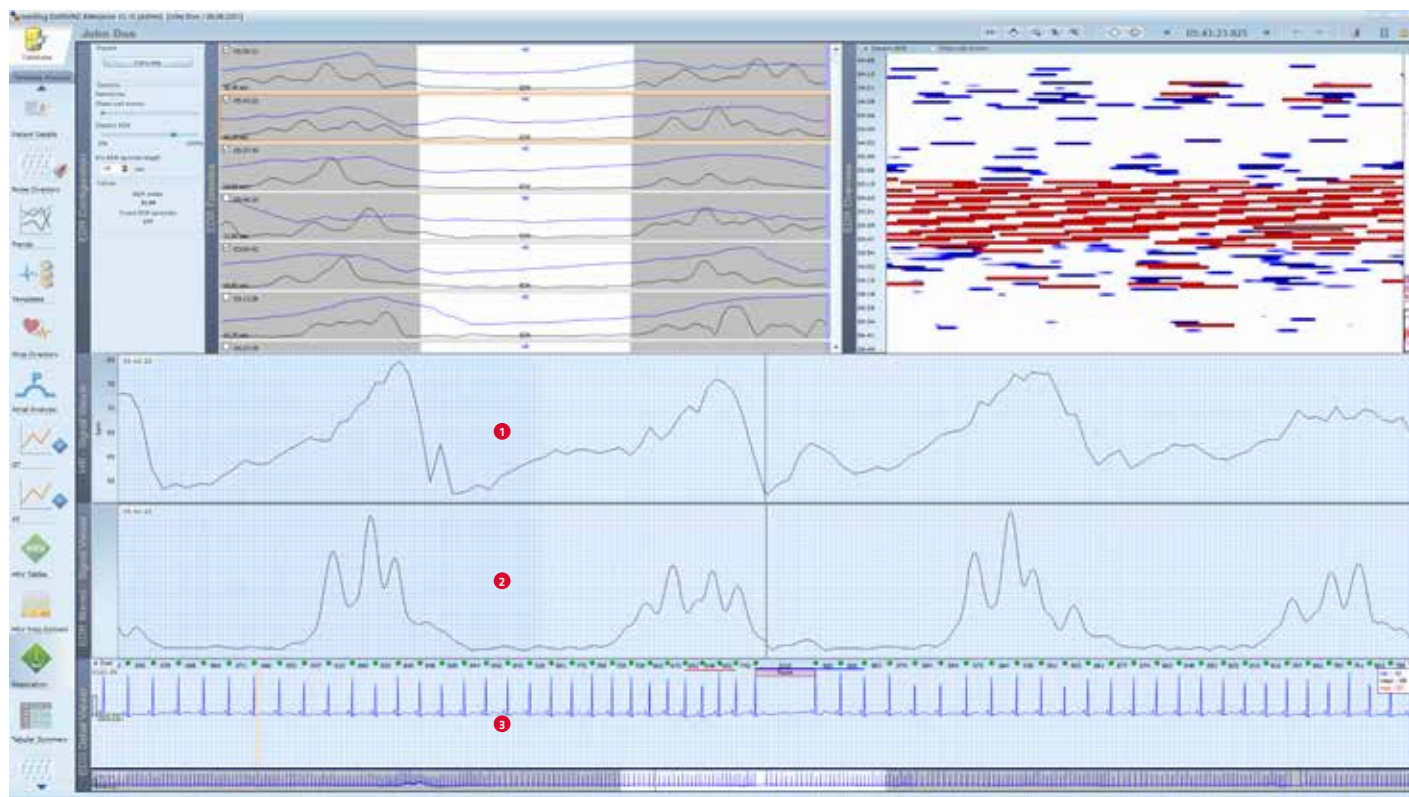
SYNCHRONISED ECG AND RESPIRATION CURVES

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

- ❶ Heart rate trend
- ❷ Respiration curve
- ❸ ECG

FIRE OF LIFE

A BRILLIANT, INTUITIVE APPROACH TO HRV ANALYSIS

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

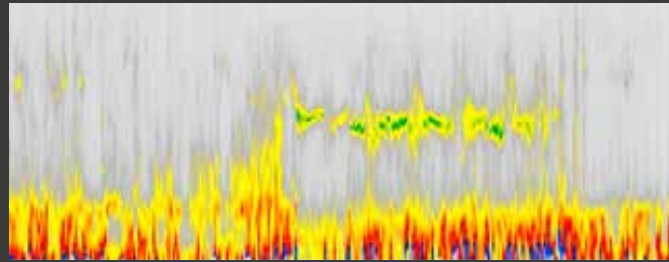
Fire of Life is a very intuitive visual presentation of frequency-domain HRV that makes the assessment of 24-hour results fast and simple.

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

It can be used very effectively in the occupational health sector to control the stress burden and sleep quality and also, in sports medicine, to check the recovery process.

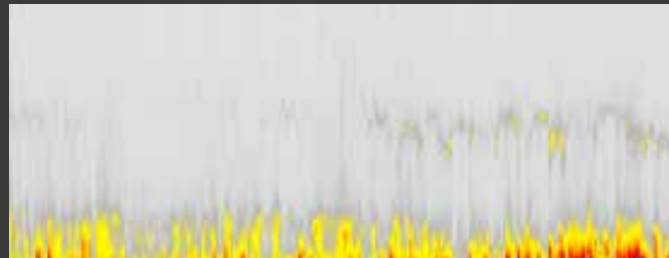
The Fire of Life evaluation is possible with the Professional and Enterprise medilogAR Holter recorder and the medilog DARWIN2 Professional and medilog DARWIN2 Enterprise software version.

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 made with BR-102 plus. For a well-founded cardiovascular risk assessment, even pulse wave analysis is available if BR-102 plus PWA is used.



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 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, work through beat-templates and arrhythmias and will create the report.
- ❖ An e-mail notification is sent, informing that the reports are available for review.



Patients easily and quickly keep 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.

MEDILOG RECORDER OPTIONS

THE FOLLOWING OPTIONS ARE AVAILABLE:

	medilogAR Office	medilogAR Professional	medilogAR Enterprise
Channels	3 (5 or 7 wires)	3 (5 or 7 wires)	3 (5 or 7 wires)
Sampling rate	32,000Hz	32,000Hz	32,000Hz
Battery concept	rechargeable internal & AAA	rechargeable internal & AAA	rechargeable internal & AAA
Recording duration	14 days	14 days	14 days
Bluetooth	x	x	x
P-wave detection		x	x
Respiration			x
SpO ₂			x



medilogAR pictured in original size



Americas
SCHILLER Americas Inc.
 Doral, Florida 33172

North America:
 Phone +1 786 845 06 20
 Fax +1 786 845 06 02
sales@schilleramericas.com
www.schilleramericas.com

Latin America & Caribbean
 Phone +1 305 591 11 21
 Fax +1 786 845 06 02
sales@schilleramericas.com
www.schilleramericas.com



Asia
SCHILLER Asia-Pacific / Malaysia
 52200 Kuala Lumpur, Malaysia
 Phone +603 6272 3033
sales@schiller.com.my
www.schiller-asia.com



Austria
SCHILLER Handelsgesellschaft m.b.H.
 A-4040 Linz
 Phone +43 732 70 99 0
sales@schiller.at
www.schiller.at



China
Alfred Schiller (Beijing) Medical Equipment Co., Ltd.
 100015 Beijing, China
 Phone +86 010 52007020
info@schillerchina.com
www.schillermedical.cn



Croatia
SCHILLER d.o.o.
 10000 Zagreb
 Phone +385 1 309 66 59
info@schillerzg.hr
www.schiller.hr



France
SCHILLER Médical
 F-67160 Wissembourg
 Phone +33 3 88 63 36 00
info@schiller.fr
www.schiller.fr



France (distribution France)
SCHILLER France S.A.S.
 F-77608 Bussy St Georges
 Phone +33 1 64 66 50 00
contact@schillerfrance.fr
www.schiller-france.com



Germany
SCHILLER Medizintechnik GmbH
 D-85622 Feldkirchen b. München
 Phone +49 89 62 99 81 0
info@schillermed.de
www.schillermed.de



India
SCHILLER Healthcare India Pvt. Ltd.
 Mumbai - 400 059, India
 Phone +91 22 6152 3333 / 2920 9141
sales@schillerindia.com
www.schillerindia.com



Poland
SCHILLER Poland Sp. z o.o.
 PL-02-729 Warszawa
 Phone +48 22 843 20 89 / +48 22 647 35 90
schiller@schiller.pl
www.schiller.pl



Russia & C.I.S.
AO SCHILLER.RU
 119049 Moscow, Russia
 Phone +7 (495) 970 11 33
mail@schiller.ru
www.schiller.ru



Serbia
SCHILLER d.o.o.
 11010 Beograd
 Phone +381 11 39 79 508
info@schiller.rs
www.schiller.rs



Slovenia
SCHILLER d.o.o.
 2310 Slovenska Bistrica
 Phone +386 2 843 00 56
info@schiller.si
www.schiller.si



Spain
SCHILLER ESPAÑA, S.A.
 ES-28232 Las Rozas/Madrid
 Phone +34 91 713 01 76
schiller@schiller.es
www.schiller.es



Switzerland
SCHILLER-Reomed AG
 CH-8912 Obfelden
 Phone +41 44 744 30 00
sales@schiller-reomed.ch
www.schiller-reomed.ch



Turkey
SCHILLER TÜRKİYE
 Okmeydanı-Sisli - Istanbul
 Phone +90 212 210 8681 (pbx)
 Fax +90 212 210 8684
info@schiller.com.tr
www.schiller-turkiye.com



United Kingdom
SCHILLER UK Ltd.
 Anstruther, Fife KY10 3H
 Phone +44 16 190 72 565
sales@schilleruk.com
www.schilleruk.com

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