

# SCHILLER'S MEDILOG HOLTER SYSTEM

Sophisticated and precise ECG analysis that meets the highest demands



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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 SpO<sub>2</sub> 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, SpO<sub>2</sub> and an option for scanlab web-service.

All versions<sup>1</sup> provide floating licences, option for Multi-Tenancy, connectivity to HIS and SCHILLER's data management solution SEMA.

<sup>1</sup> 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.<sup>2</sup> 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 SpO<sub>2</sub> sensor (optional, medilogAR Enterprise only) via Bluetooth.
- ❖ Delivered with robust carrying case with various carrying options.

<sup>2</sup> 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

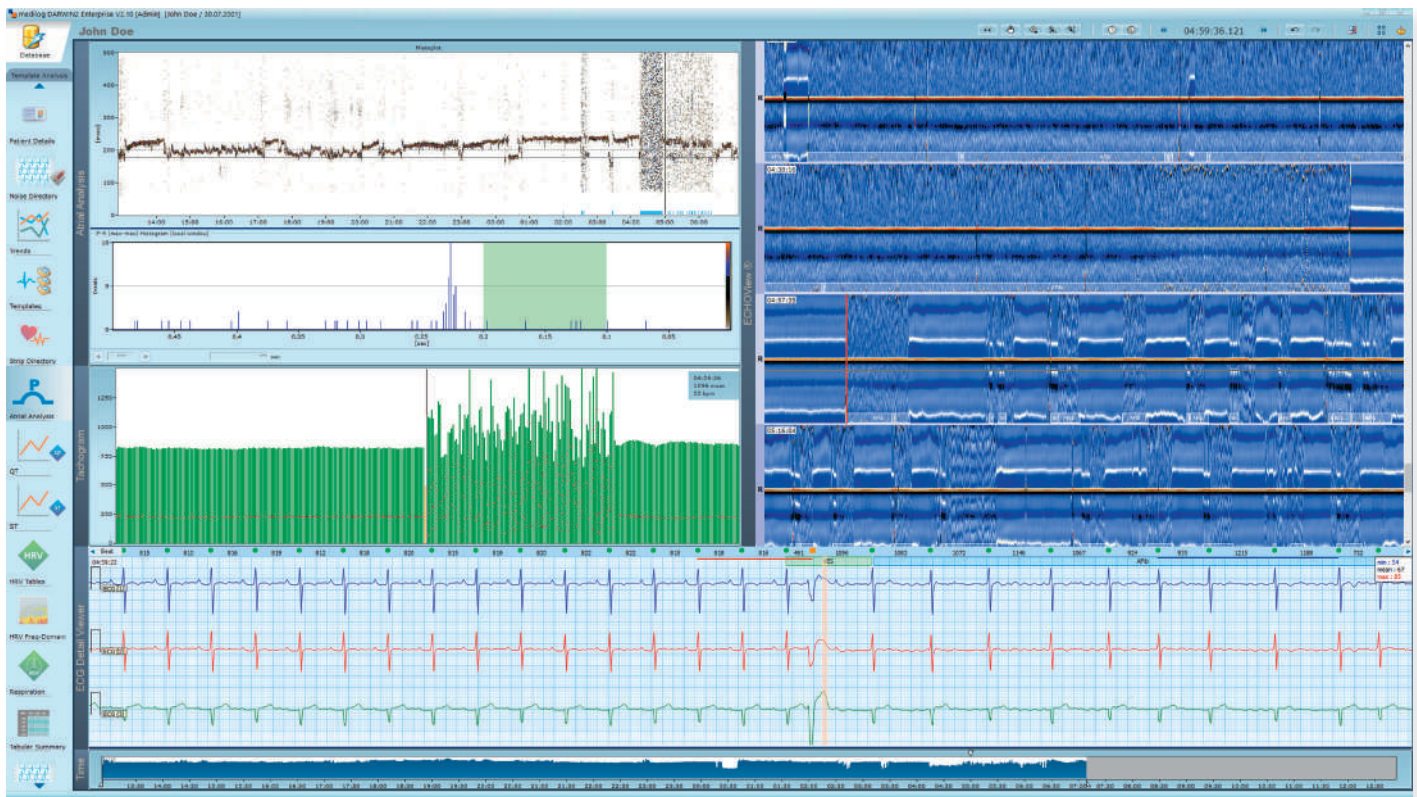
The high-end medilogAR recorder offers unparalleled signal quality in Holter recordings. Using state-of-the-art amplifiers with 32,000Hz and advanced filter technology, the medilog recorder detects P waves in real time. When using medilogAR Professional or medilogAR Enterprise, even very short episodes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

This tool is invaluable in following the ESCs Clinical Guidelines<sup>3</sup> 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



# 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.

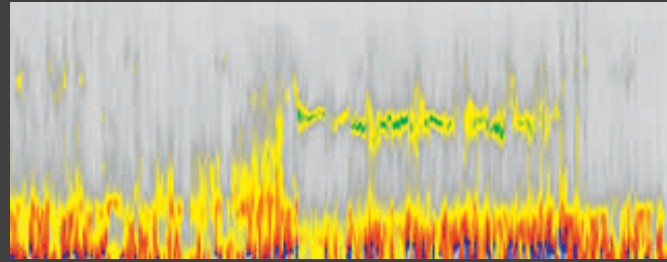
Fire of Life is a very intuitive visual presentation of frequency-domain HRV that makes the assessment of 24-hour results fast and simple.

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.

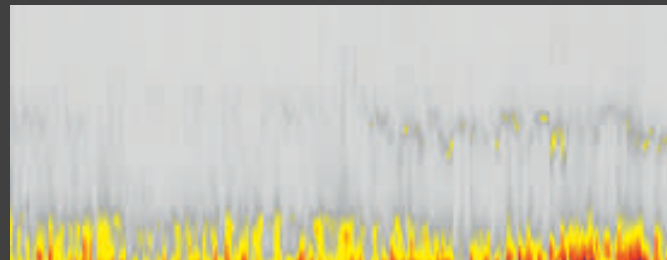
The Fire of Life evaluation is possible with the Professional and Enterprise medilogAR Holter recorder and the medilog DARWIN2 Professional and medilog DARWIN2 Enterprise software version.

**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.

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## About SCHILLER

SCHILLER A. G., a company based in Switzerland, was founded by Alfred Schiller in 1974. Over the last 50 years, it has evolved into a successful Global Group with 31 subsidiaries and dealers across 30 countries. Today, SCHILLER is a world-leading manufacturer and supplier of devices for cardiopulmonary diagnostics, defibrillation and patient monitoring as well as software solutions for the medical industry.

Schiller in India was founded as a joint venture in 1997, and since then has established itself as a leader in the medical technology sector. With 450+ employees, a state-of-the-art ISO 13485-certified production centre in Puducherry, multiple R&D centres, and 17 offices across India; Schiller makes advanced healthcare equipment accessible through a network of 100 sales and service dealers across more than 45 locations. Our product range includes Critical Care, Anaesthesia, Emergency Care, Cardiology, Respiratory Diagnostics, Radiology, and Robotics.

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to know more




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**SCHILLER**  
The Art of Diagnostics


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