

NEW

ECG HOLTER



NEW POSSIBILITIES IN HOLTER DIAGNOSTICS

BTL ECG Holter

The BTL ECG Holter satisfies the needs of the most demanding ECG experts, while at the same time making their work both easy and fast. At BTL, our main concerns are always Quality, Patient Comfort, Reliability, and Easy Operation.

Quality

Signal Quality is the key to ECG signal processing. That is why we designed the ECG Holter to record at a sample rate of 2000 Hz with 16 bit digital resolution. The ECG Holter records signals at the same quality level as Rest ECG devices, an achievement unheard of in most other portable devices.

Patient Comfort

BTL's innovative design brings you optimal information – 7-channel ECG – with just four wire leads. With our 7-channel recording, recorded heartbeat data output is the same as that of a Rest ECG recording device.

Diagnostic Reliability

We use very precise algorithms, which detect almost every possible cardiologic threat to your patient. The Holter is 99.9% accurate according to MIT-BIH database.

Easy Operation

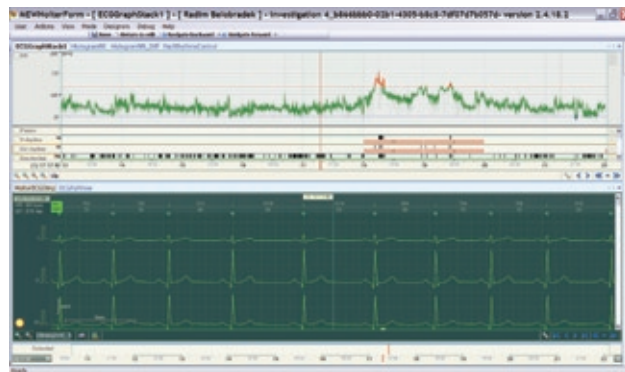
Our powerful diagnostic engine helps the physician save precious time in examinations, and the displayed information is straightforward and clear.



INTUITIVE USER INTERFACE

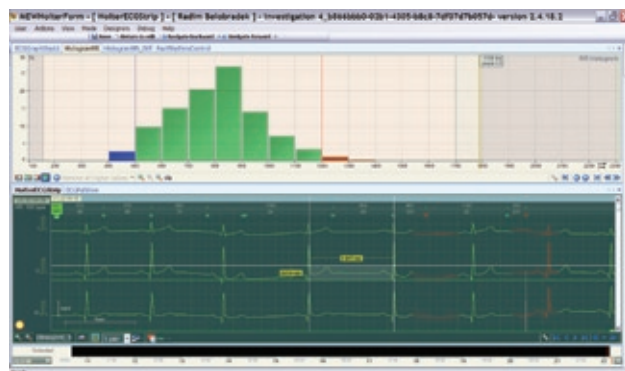
Interactive Graphs

Users can edit the recording directly from the graph view, rather than having to examine the graph, then locate the corresponding signal point, and then modifying the recorded signal. Graphs can easily be resized so users can focus on points of interest.



Interactive Histograms

This is our most time-efficient feature. Using these interactive views, the user can navigate through graphs by critical values such as of RR, QT, QTc, etc. Editing multiple parts of recording is done with a single click.

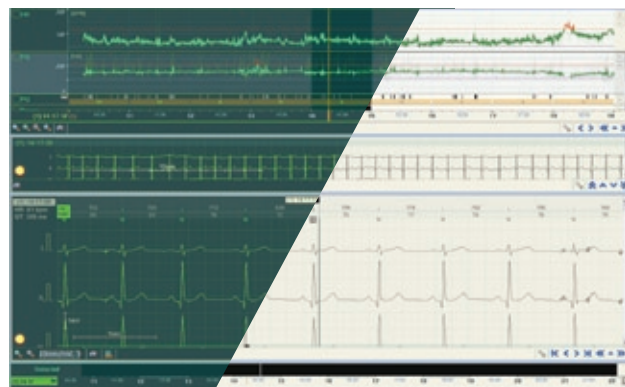


Navigation by Extremes

There is no need to waste time going through entire ECG records. With our extreme navigator, critical parts of ECG recording are displayed first. Returning to extreme values at any time is easy.

Fully Customizable

The software is customizable, so that every physician can find and implement the most appropriate options for his/her work style. With this, quick and easy operation is guaranteed – the user only sees what he wants to see, exactly where he wants it. In addition to tools, colour schemes can also be selected to the user's taste.



ADVANCED DIAGNOSTIC TOOLS

Morphology Navigator with Multilevel Templates

Complex and deep analysis gives very clear and easy-to-understand results through our multi-level template display. Quick and easy navigation allows the user to get very precise results with maximum comfort in minimal time.



Rhythm Analyzer

This tool is designed to give the user a clear overview of any event in the ECG rhythm. This tool allows both display and quick, direct editing, and several types of ventricular and supraventricular rhythm events are highlighted for the user. Hourly quantity values are shown, and exact time positioning makes looking for relations between various events much easier.

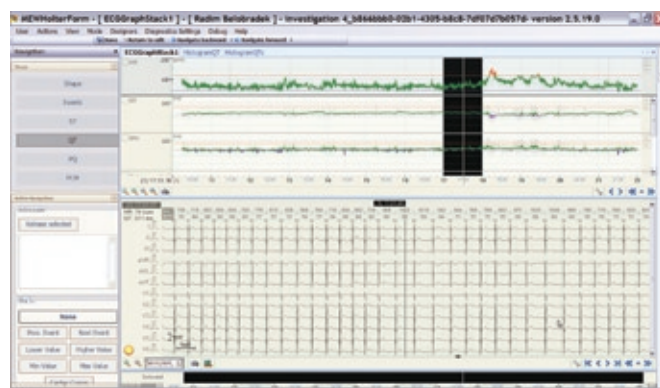


HR Variability

This tool displays the HR from several points of view, such as graphs, histograms and event logs. All are interactive for faster and more direct work.

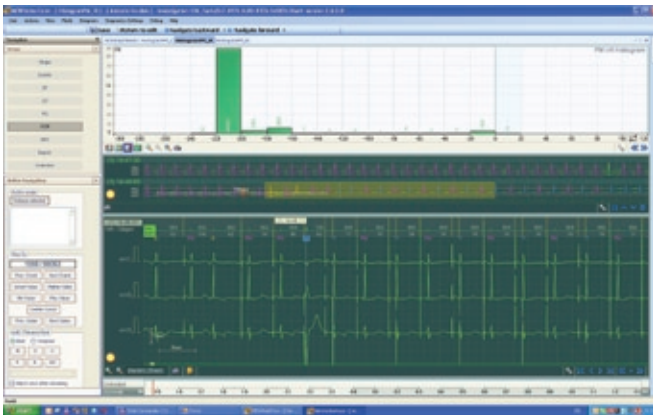
ST Analysis

This displays ST levels, ST slope, etc. for all channels throughout the entire recording period. ST changes can be directly compared with HR trend.



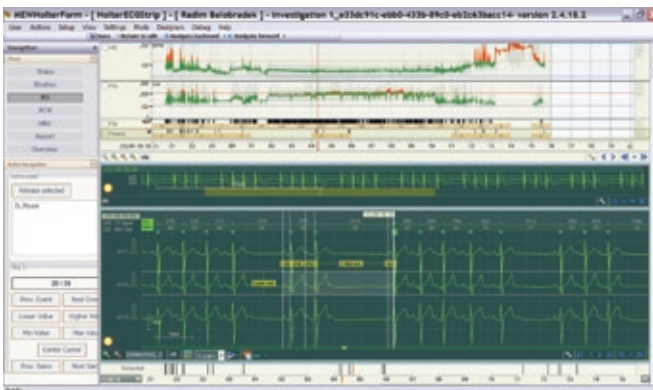
QT and QTc Analysis

This device has trend graphs as well as histograms for both QT and QTc. The combination of histograms and graphs gives the complete overview and saves both time and effort. QT changes can be directly compared with HR trend.



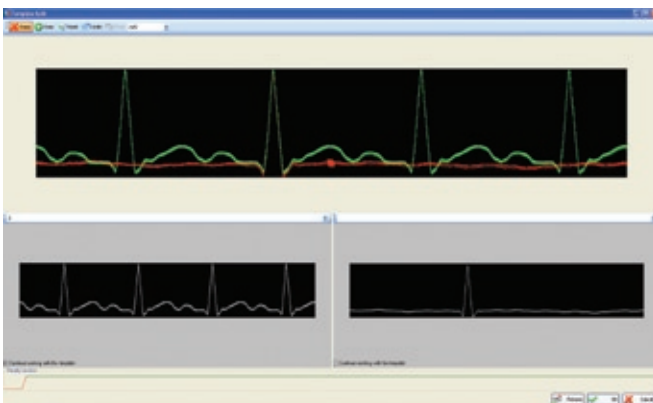
Pacemaker Detection

The Holter software offers a clean overview of all paced heartbeats. Monitoring PMI activity has never been so user-friendly and intuitive. Paced beats are detected at the HW level and then processed by a powerful SW to achieve better reliability.



PQ Analysis

This is a very useful tool which allows the user to analyze P wave characteristics and distinguish between various forms of AV conduction blocks.



Template Split

This is an advanced tool for the mass processing of non-homogenous template groups, and it allows quick access to exactly those templates with which the user wants to work.

Patient Activity Monitor

The Holter unit has built-in motion sensors, which allow the user to see exactly in which time periods the patient was performing physically tasking activities. This is especially useful in more precisely determining patient bed-times, sleep periods and wake-up times. Results can be directly compared with HR trends.



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BTL - 08 Holter

HIGH-QUALITY RECORDING

HOLTER RECORDER WITH THE SAME QUALITY SIGNAL AS REST ECG

The signal is recorded at a sampling rate of 2000 Hz with 16 bit digital resolution, with absolutely no ECG wave deformities! The BTL Holter Device collects and displays data in the most reliable form available on the market.

Recording Duration

The holter allows up to 7 days of continuous monitoring.

Unit Models

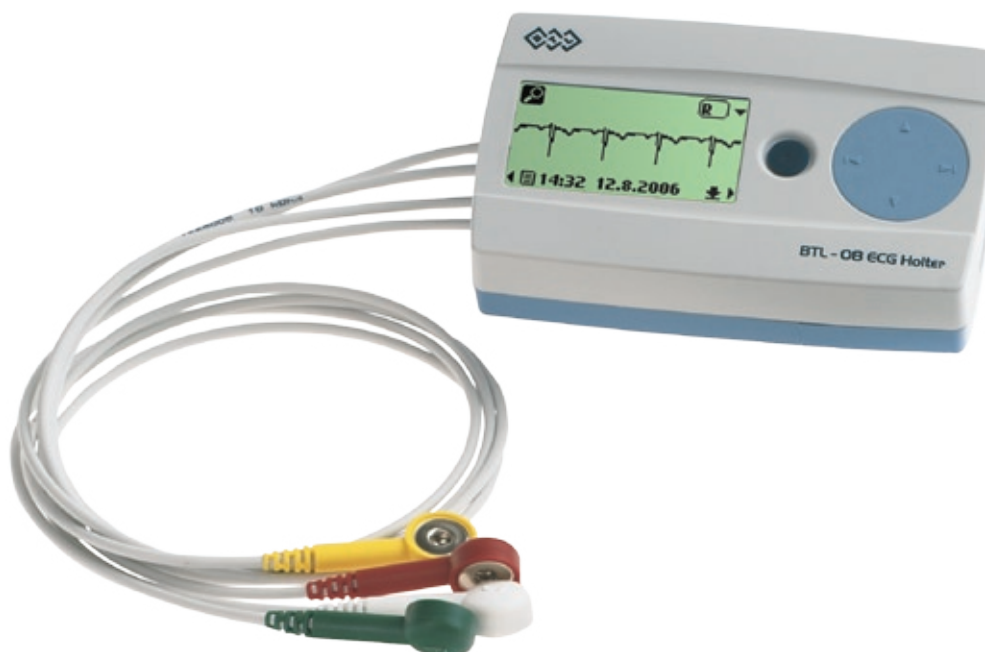
Holter units are available in several models. Most advanced units are capable of recording ECG using 3, 7, or 12 channels. True 12-channel recording offers the most comprehensive means of finding and tracking complex cardiac issues. Many physicians find their needs best met with a standard 7-channel recorder, in which recorded signal shapes correspond directly with those of a standard Rest ECG signal. This makes the BTL Holter device the most common-sense choice for users already familiar with standard Rest ECG devices, but new to the Holter Device.

Activity Monitor

Motion sensors built into the device allow precise tracking of patient activity. Information regarding patients' physical exertion, sleep-times and waking times is now easily accessible.

Self-contained Display

The ECG signal is directly displayed on the unit, so the user is able to check signal quality immediately without relying on a PC connection.



TECHNICAL SPECIFICATIONS

Holter system	BTL-08 H100	BTL-08 H300	BTL-08 H600
Ordering number (Languages: EN, DE, ES, RU)	C08HOL.011v100	C08HOL.013v100	C08HOL.016v100
Ordering number (Languages: EN, FR, IT, PT)	C08HOL.111v100	C08HOL.113v100	C08HOL.116v100
Recorder 3-channel, 48 hours	◇		
Recorder 3/7-channel; 1-7 days		◇	
Recorder 3/7/12-channel; 1-7 days			◇
Multi level template	◇	◇	◇
Template split			◇
Rhythm analysis	◇	◇	◇
Pacemaker detection and analysis		◇	◇
Pacemaker analysis plus			◇
HRV	◇	◇	◇
HRV plus		◇	◇
ST	◇	◇	◇
ST plus			◇
QT QTc		◇	◇
PQ			◇
Activity monitor			◇
Xml export			◇

Additional recorder	3-channel, 48 hours	3/7-channel, 1-7 days	3/7/12-channel, 1-7 days
Ordering number (Languages: EN, DE, ES, RU)	C08HOL.003v100	C08HOL.004v100	C08HOL.005v100
Ordering number (Languages: EN, FR, IT, PT)	C08HOL.103v100	C08HOL.104v100	C08HOL.105v100
Number of channels	3	3 or 7	3, 7 or 12
Recording time	1 - 2 days	1 - 7 days	1 - 7 days
Patient cable	4 leads	4 leads	4 leads / 10 leads
Data transmission	USB	Wireless, USB	Wireless, USB
LCD screen resolution	128 × 64 dots		
Storage medium	SD card 2GB		
Dynamic range	± 60 mV		
Digital resolution	1.8 µV		
Sampling frequency	2000 Hz / 16 bit		
Frequency range	0.05 Hz – 150 Hz		
Maximum electrode potentials	± 400 mV		
Common mode rejection	> 100 dB		
Pacemaker detection	≥ ± 2mV/± 0.1ms		
Batteries	Alkaline 2xAA 1.5V or 2x Ni-Cd or NiMH 1.2V		
Dimensions	102 × 62 × 24 mm (4" × 2.44" × 0.94")		
Weight	138 g (4.88 oz)		
Standards	IEC 601-1, 601-1-2, 601-2-25, 60 601-2-47		

PC minimal requirements	Desktop	Laptop
Display	1280 × 1024	1280 × 800
HDD	320GB	160GB
RAM	1GB	1GB
CPU	C2D	C2D
Operating system	Windows XP, Windows Vista	Windows XP, Windows Vista



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