

PHILIPS

Diagnostic Cardiology

Zymed Algorithm



Zymed Algorithm for Philips Holter System

Simplifying your most complex Holter scans

When it comes to achieving clinical excellence across the cardiac care continuum, performance is the top priority. That is why the Zymed Algorithm for Holter analysis is designed to be powerful and precise – while also being easy to use.

EASI 12-lead

- EASI lead placement on easy-to-find anatomical locations reduces artifact and promotes patient comfort.
- The Zymed Algorithm uses EASI to derive consistent, accurate, full 12-lead ECG information using only five electrodes to detect and document cardiac arrhythmias as well as ST and QT changes.
- EASI allows you to view and/or document ECGs in the familiar 12-lead format at any point in the scan.
- Clinicians can use EASI derived 12-lead presentations to help them accurately assess a patient's medical condition.

Ease of use

- Limited operator interaction is required. With a few mouse clicks, the algorithm retrieves and analyzes patient data and presents results in a customized report form
- An easy-to-use interface allows users to dynamically teach the algorithm to recognize new templates and change its behavior regarding existing morphologies.
- Beat annotations above each beat help to facilitate easy review and editing.



Validate thousands of events within seconds using Event Review



Verify beat classes quickly with tools designed to streamline the editing process



Advanced pacemaker analysis

- Differentiate between paced and non-paced beats with a high degree of accuracy.
- Determine if beats are singly paced, dually paced or paced with fusion as part of the beat classification process.
- Analyze and report failure to sense, failure to capture, and failure to output.

Beat detection – the key to effective arrhythmia analysis

- Benefit from highly accurate and clinically validated beat detection.
- Comprehensive beat detection uses data from all three channels to distinguish real beats from artifacts.
- Leverage highly effective separation of T waves from actual beats, one of the biggest challenges in arrhythmia analysis

Individual beat classification

- Each beat is categorized using a dynamic, ECG-specific library of rhythm and shape templates utilizing scan data from all three channels.
- If a beat does not match an existing template, the algorithm will apply additional analysis to determine classification.
- After initial classification, beat information is further processed to screen for artifacts, thereby preventing miscounting of artifacts as normal or ventricular

Multiple scanning styles

- Select from four distinct scanning styles (Page (prospective), retrospective, Quickscan, superimposition).
- Quickscan, exclusive to the Zymed Algorithm, combines the automation of retrospective scanning and the interactive capabilities of prospective scanning.

Fast, flexible Zymed Smart Tools

- The Zymed Algorithm offers editing tools designed to meet the needs of prospective and retrospective scanners alike and can be scaled to fit the needs of power users.
- Zymed Smart Tools dynamically learn and adapt beat classification, making your scan fast and efficient.

Comprehensive tools to support ECG analysis

- Comprehensive and flexible algorithm settings (rule sets) designed for scan accuracy
- Customizable rule sets for specific patient types or research protocols – changeable on-the-fly during the scan
- 3-channel ST segment analysis with ST episode reporting
- 12-lead ST segment analysis with 3D graphics that provide multiple views of the heart
- Heart rate variability with both time and frequency domain analysis
- QT analysis on every normal QRS, with options for uncorrected QT analysis or correction by all the industry-standard correction algorithms
- Up to one minute resolution in reporting QT totals

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