Speed - Accuracy - Exploration

Pathfinder SL
98000

ECOMED
Serving The HealthCare Industry
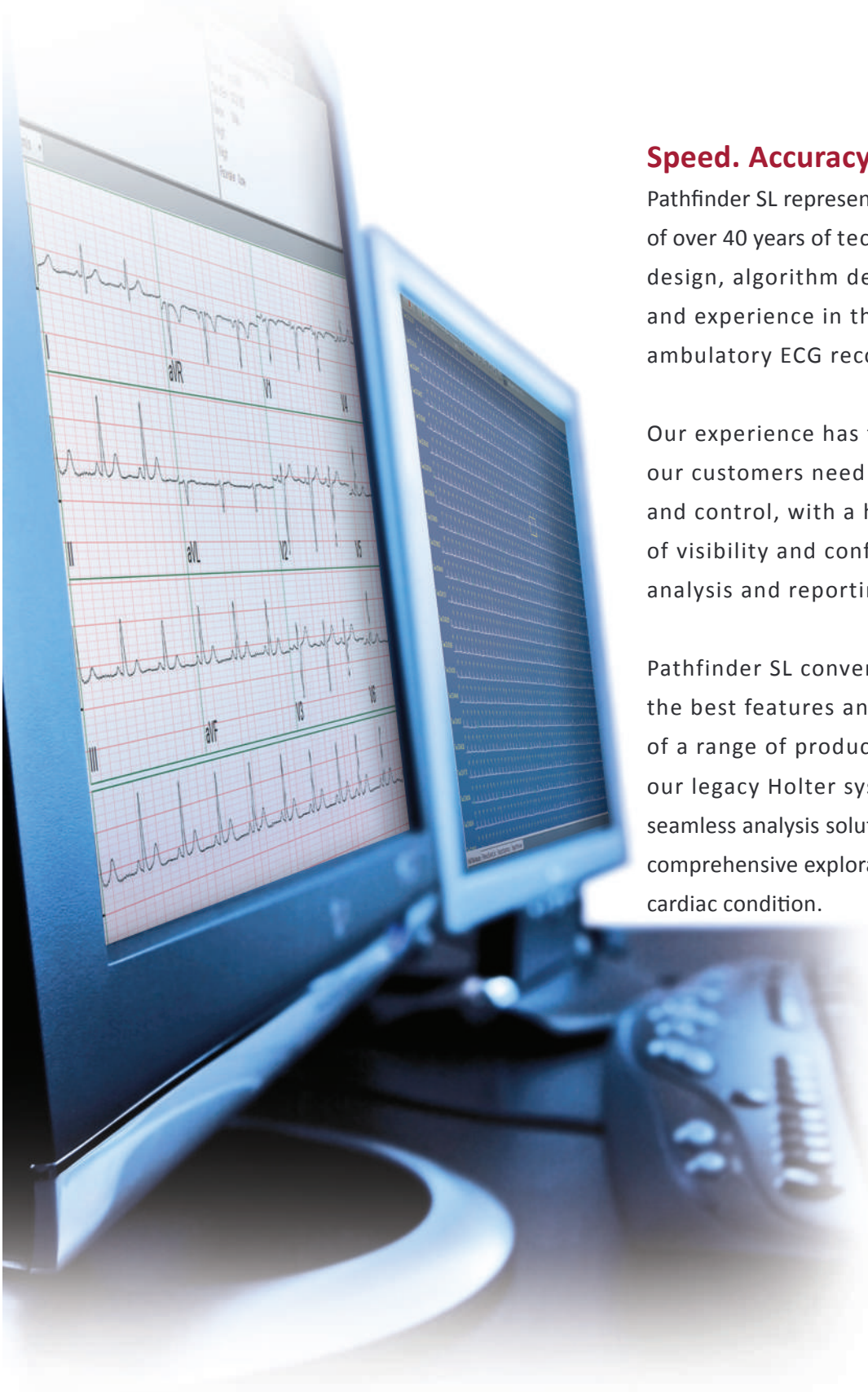
PATHFINDER SL

Speed. Accuracy. Exploration.

Pathfinder SL represents the evolution of over 40 years of technology, design, algorithm development and experience in the analysis of ambulatory ECG recordings.
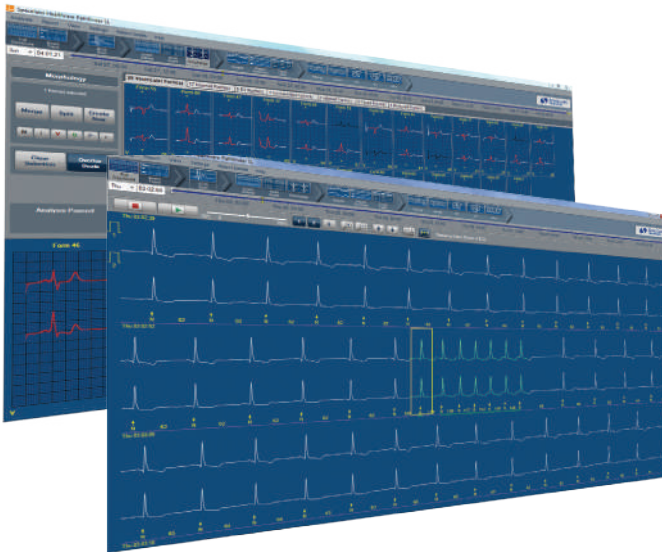
Our experience has taught us that our customers need speed, accuracy and control, with a high degree of visibility and confidence in the analysis and reporting process.

Pathfinder SL converges and enhances the best features and capabilities of a range of products, including our legacy Holter systems, into one seamless analysis solution to enable the comprehensive exploration of a patient's cardiac condition.
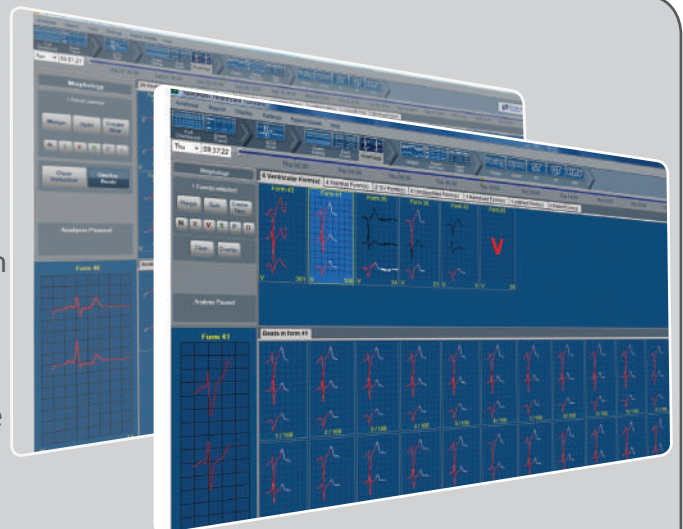
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Interface

Pathfinder SL's interface provides a simple and flexible workflow that enables the user to quickly navigate to information that they need.

- All screens, tables and graphs are synchronized to enable an event or beat, to be quickly viewed across a range of different views with full zoom capabilities.

- Screen icons and controls are arranged in an intuitive way to guide the user through the analysis workflow.

Morphology Analysis

- Pathfinder SL provides the user with a new level of morphology analysis and simple control within beat classifications.

- The morphology displays and interactive tools provide the operator with information and control to quickly group or detail individual beat morphologies as required.

- The Pathfinder SL algorithm also allows the user to search and either group or separate subtle changes in morphologies

- This level of detail provides clinicians with additional information to interpret the foci of the beats and determine more specific treatment regimens or investigations.
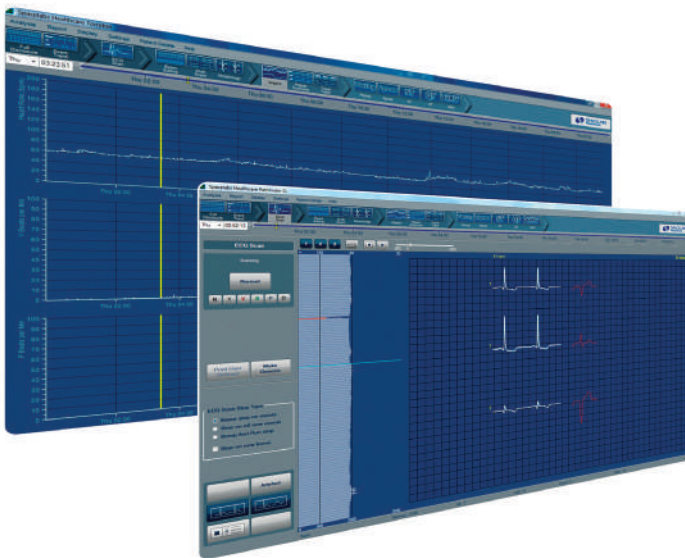

Multi Screen

- Pathfinder SL's dual screen configuration allows independent parallel views of ECG, graphs, trends or tables increasing the efficiency of use.

- Click on ECG in one screen and see corresponding views or graphs in another!

- Add comments or view reports in the second screen while editing in the first!

- User can configure the content of the second screen

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7 Day Analysis

- Pathfinder SL's offers a significant advancement in the capabilities of Holter by providing full analysis not only for the traditional 24 hours, but up to a full 7-days of continuous recording, in one analysis process and one report.

- Pathfinder SL's algorithm is designed to quickly handle the hundreds of thousands of beats seen over a 7-day recording.

- The clinician is provided with a comprehensive Holter report of all ECG events and morphologies over the full 7-day period.

- Pathfinder SL not only provides 7-day analysis of arrhythmia events but full 7-day ST, HRV and QT analysis increasing the window of opportunity to capture and quantify significant events.
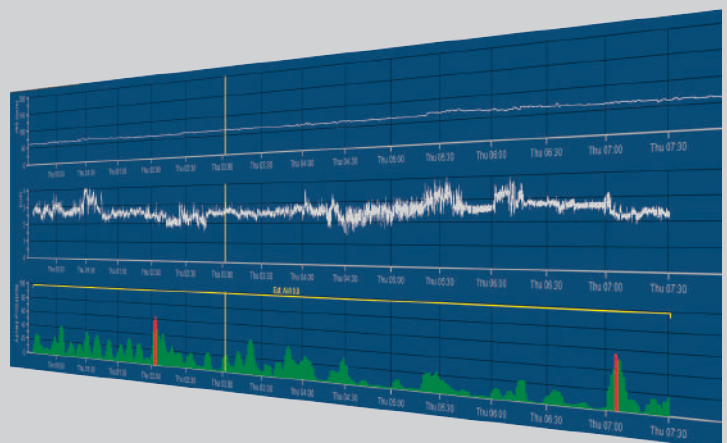
Guided Scanning

- Pathfinder SL's guided scanning mode can be easily and quickly adapted to automatically stop and guide the user to beat shape changes or events on a recording by recording basis.

- For trainees or inexperienced operators this feature provides a helping hand to ensure that operators see and confirm events.

- For more experienced users the configurable guidance allows prospective control of the analysis process.

Sleep Apnea

- The Sleep Apnea analysis option for Pathfinder SL determines periods of apneic sleep from the standard Holter recording.

- Pathfinder SL derives the respiratory waveform from the ECG signal amplitude changes and analyzes the changes in the RR interval associated with respiration and sleep apnea, along with the power spectral frequencies of heart rate variability.

- A correlated AHI is then produced with supporting graphs and trends.

- This can be for one sleep period or multiple sleep periods if a 7-day recording is analyzed.
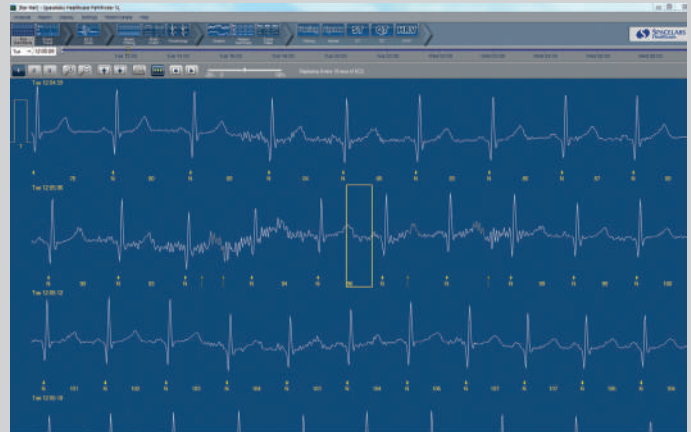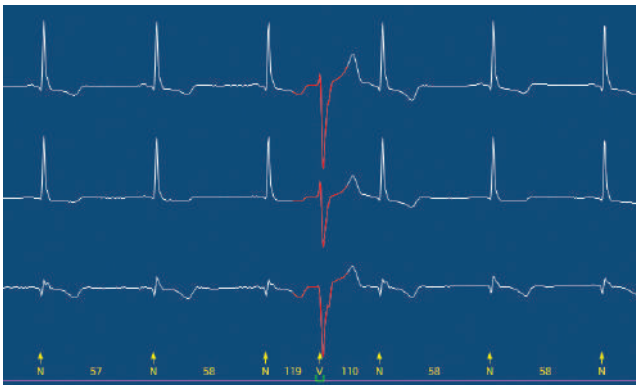
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Analysis Efficiency

Pathfinder SL features an advanced multi layer analysis algorithm incorporating:

- Multi Channel Analysis
- Dynamic Pattern Matching Algorithm
- Beat Morphology Analysis
- Dynamic Artifact Rejection
- Trigger and Noise Sensitivity Controls
- Beat Shape Learning
- Prospective and Real Time Re-analysis

The result of this is an analysis process that provides rapid and accurate results in even complex, noisy or unstable recordings.

Algorithm

Pathfinder SL has an intelligent analysis engine that analyzes the ECG waveform and beat shapes. Accuracy is further enhanced by the addition of multiple levels of dynamic pattern matching technologies.

Pathfinder SL's dynamic pattern matching algorithms aid the operator to identify the differences between artifact and beats even within periods of noisy ECG and highlight subtle shape changes in the ECG.
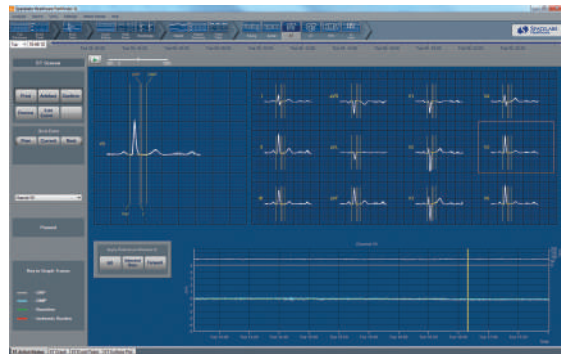
Flexibility

The flexible workflow and configurability of Pathfinder SL allows the operator to control the analysis in a way that suits their preference.

Clean simple ECG recordings can be quickly analyzed and reports generated within minutes. More complex recordings with multiple Atrial and Ventricular rhythms can be analyzed using a range of more advanced tools.

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ST Analysis

- 7-Day ST segment analysis including action replay and measurement point adjustments.
- 12-Lead Holter ST analysis including lead selection and color mapping of elevation / depression deviations.
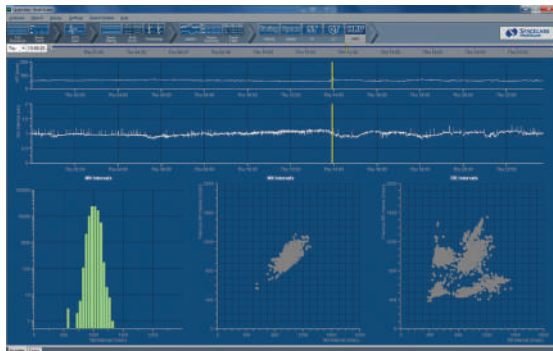

Pacing Analysis

- Atrial and ventricular paced beat detection with pacing track.
- Paced beat histograms, scatter plots and relationship diagrams for rapid identification of pacing function.
- Pacing rate control graphs with day/night and overall comparisons.

HRV Analysis

- Pathfinder SL's trigger algorithm and user sensitivity controls enable the system to precisely trigger on R-waves even in the presence of noise.
- 7-day HRV analysis with multiple views of rates and rhythms including the arrhythmia graph are available.

12-Lead Analysis

- Selectable leads for analysis.
- 12-Lead ECG snapshot at any period.
- Full Glasgow algorithm 12-Lead ECG interpretation on 12-Lead Holter ECGs.

QT Analysis

- QT trend graphs and tables.
- QT measurement adjustment markers.
- QT or QTc measurements.