

Analysis of telemetry dog ECG with ECG51a 3D display

KEY FEATURES

- Offline beat-to-beat analysis
- User-defined marks
- Automated marks propagation
- Very fast processing
- Customizable lists of fiducial points (e.g. PQRST) and calculated data
- Flexible 2D/3D display
- Dynamic display of signal coverage for each mark
- Statistics on calculated data
- Beat-to-beat analysis
- GLP and 21 CFR Part 11 compliant

SETTING YOUR OWN PARAMETERS

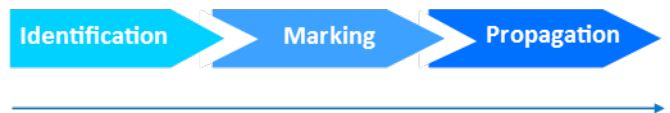
ECG51a offers **full customization** of ECG analysis. It provides high-performance **semi-automated** beat-to-beat analysis with user-defined marks.

Its high processing speed, statistics capabilities and quality display make ECG51a the essential ECG analyzer for safety pharmacology and toxicology studies.

ECG51a is adapted to **multiple species** and experimental conditions. Species-specific presets are available in the module properties window for fast and easy configuration.

ECG51a interface is designed for intuitive navigation. The **2D/3D** quality display doubles as a powerful and user-friendly command and validation tool.

A 3-STEP PROCESS

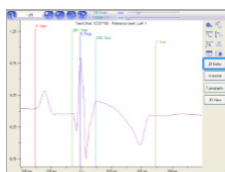


Timeline: 20 minutes for a 24-hour signal

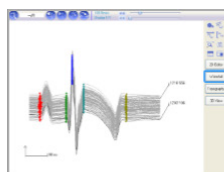
- 1-** Automated **identification** of reference beats
- 2-** **Marking** of reference beats
- 3-** Automated mark **propagation** and calculation of intervals

ECG51a beat-to-beat analysis relies on QRS detections. Designed specifically for detecting QRS complexes, our module QRS10a is the perfect complementary tool for ECG51a.

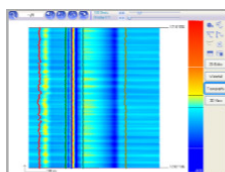
QUALITY DISPLAY CAPABILITIES



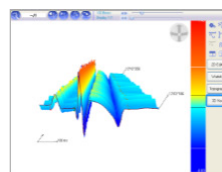
2D Editor



Waterfall



Topography



3D view

ECG51a provides an integrated 2D/3D quality display offering different views.

- 2D Editor for editing and marking reference beats.
- Waterfall for viewing selected beats individually and making interval comparisons.
- Topography for mapping the whole signal and monitoring the evolution of fiducial points over time.
- 3D view for a quality overview and an easy location of morphological changes

A TRULY CUSTOMIZED ANALYSIS

ECG51a analysis is based on the propagation of marks, from reference beats that possess characteristic morphologies representative of the whole signal. They can be identified either by ECG51a or by the user.

ECG51a generates few reference beats for a high signal coverage, even with days-long signals (typically 30 beats for a telemetry 24-hour signal). Building a library is not needed since analysis is file-specific and thus processing is very fast. At last, ECG51a properties window allows editing of fiducial points and calculated data of interest for a personalized analysis.

+ Related products

IRF10a	Infinite impulse response filter
PDR10a	Specific frequency filter
QRS10a	QRS complex detector
QTC10a	QT corrections calculator
RSR11a	Respiratory signal component filter
SGF10a	Savitsky Golay filter
VME10e/v	Editing and validation of ECG analysis / with synchronized video

Working in a GLP environment?

21 CFR Part 11 compliance is achieved via our AccessManager security application, activating a highly secure and compliant Audit Trail.

ECG51a

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