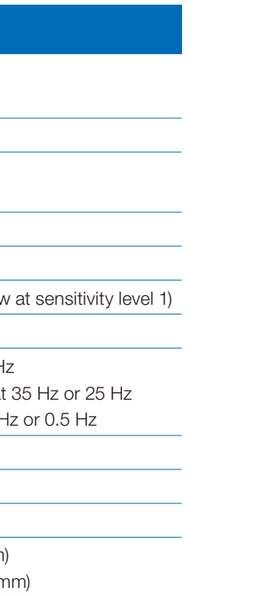
FX-8300 Specifications

ECG

Sensitivity Selection	1/4, 1/2, 1, 2, Auto
Differential and Common-Mode Offset Voltage (Electrode-Skin Voltage)	±600 mV and above
Sine Wave Characteristics	0.05 Hz to 250 Hz
Low Frequency Characteristics (Time Constant)	3.2 sec. and above
Common-Mode Signal Suppression	103 dB and above (2 mm [p-v] and below at sensitivity level 1)
Leads	Standard 12-lead
Filter	AC filter: –20 dB or less at 50 Hz or 60 Hz Muscle filter: –3 dB (–6 dB/oct) or less at 35 Hz or 25 Hz Drift: –3 dB (–12 dB/oct) or less at 0.25 Hz or 0.5 Hz
Printing	Thermal Print Head Method
Printing Speed	5, 10, 12.5, 25, 50 mm/s ±2% or less
Printing Channel	3 ch, 6 ch
Printing Paper	OP-358TE (with grids, roll paper, 145mm) OP-382TE (with grids, Z-fold paper, 145mm)
Display	8” Colour LCD, 800 × 480 dots (with LED backlight)
A/D Conversion	24-bit
Sampling Rate	8,000 samples/sec.
LAN Port	Conforms to IEEE802.3u 100BASE-TX (The cable must be within 50 m.)
USB Port	Compatible with USB2.0 Full Speed, 3 ports
SD Card	Compatible with SD Card Specification 2.0

Equipment

Power Supply	AC power: AC 100-240V 50/60 Hz
	DC power: 11.1 V DC (Battery)
Power Consumption	100 VA (AC)
Dimensions	Approximately 307 mm (W) × 210 mm (D) × 65 mm (H)
Weight	Approximately 2.3 kg (main unit only) Approximately 2.6 kg (including options such as battery)
Battery operation time	120min



Optional Accessories

Battery pack (BTE-001)

ECG interpretation software (FP-810)

Multiple Languages

English, French, German, Spanish, Italian, Russian, Portuguese, and Vietnamese

FUKUDA DENSHI reserves the right to change specifications without notice.

CE 2797

FUKUDA DENSHI CO.,LTD.
39-4, Hongo 3-chome, Bunkyo-ku, Tokyo 113-8483, Japan
Tel: +81-3-5684-1455 Fax: +81-3-3814-1222
www.fukuda.com

Distributed by:

Printed in Japan NP.No.20200618Ⓚ

Advanced Electrocardiograph

FX-8300

CardiMax

FX-8300

Advanced Electrocardiograph

FUKUDA

The FX-8300 has a large 8-inch widescreen LCD offe ring unparalleled ease of use for checking patient data, as well as clea r, accurate ECG waveforms.

8-inch Widescreen Colour LCD

A large 8-inch colour display with clear waveforms and easy to operate.

Actual size

Bar Code/ID card Reader (Optional)

Enables the user to enter patient information with the bar code reader or ID card reader for quick and error-free input.

Memory function

Up to 1,000 ECG examination can be saved in its internal memory. Data can also be saved into the SD card or USB (Optional).

Wireless LAN (Optional)

By connecting the optional wireless LAN adapter, communication with the data management system is possible without having to connect cables.

Function Key

With the function key setting, the user can assign frequently used keys as short cut.
It allows the user better flexibility during operation.

Convenient Paper Tray

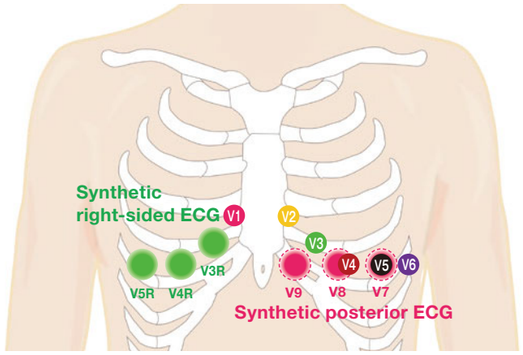
Both Z-fold and roll paper can be set inside the FX-8300.

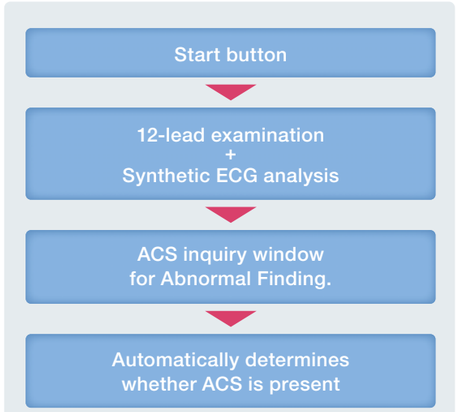
Avoidance of Missing Acute Coronary Syndrome (ACS)

ACS Diagnostic Support Function

For more effective identification of the presence of acute myocardial infarction, the FX-8300 combines the ACS diagnosis. with two additional functions: Synthesized 18-leads and an ACS diagnosis system.

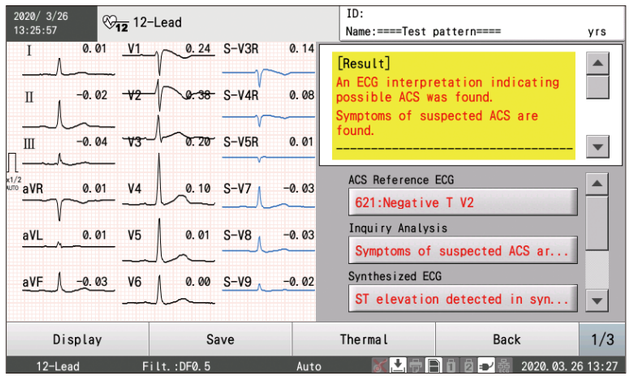
Synthesized 18-lead

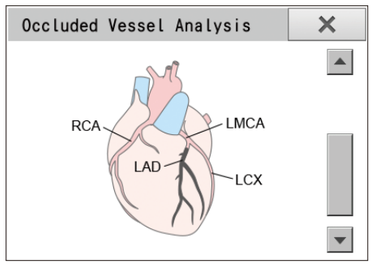




The additional waveforms are calculated using examination data obtained from a 12-lead ECG (additional electrodes are not required).
The ST levels of the right side leads (V3R, V4R, and V5R) and posterior wall leads (V7, V8, and v9) are analyzed to diagnose ACS.

Analysis Result Screen





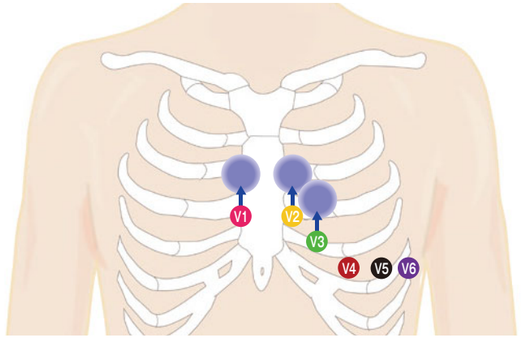
FX-8300 will display comments and findings related to suspected ACS that will provide important information of the patient condition.
It also gives comments to identify any occluded vessels with a heart figure.

Predicting and Analysing ECG Abnormalities Associated with Sudden Cardiac Death

Brugada Risk Analysis

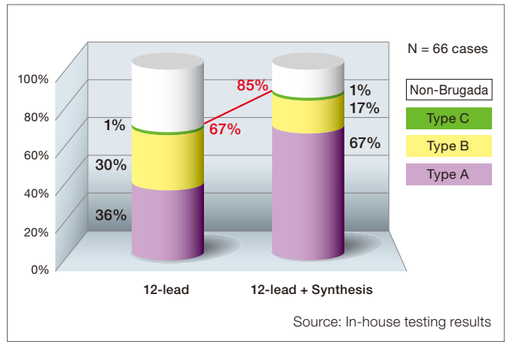
Brugada syndrome is normally detected when placing the leads V1-V3 over the high intercostal ribs. The FX-8300 is able to detect Brugada syndrome without the need of moving the leads V1-V3 and enhance the accuracy of Brugada syndrome detection with its synthesized leads.

Synthesized High Intercostal Leads



The synthesized electrocardiogram provides enhanced accuracy for detecting Brugada syndrome.

Sensitivity of Brugada ECG with Automated Analysis

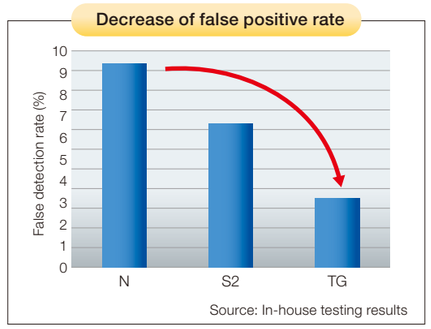


Source: In-house testing results

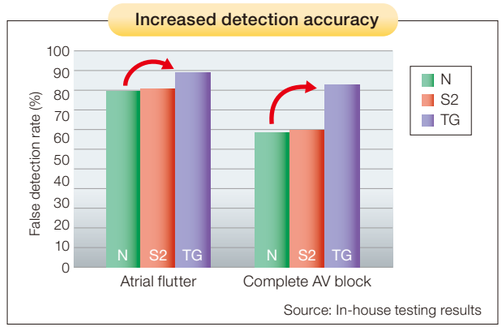
Newest Interpretation Program

TG Version

Comparison with Previous Version of Analysis Program



Source: In-house testing results

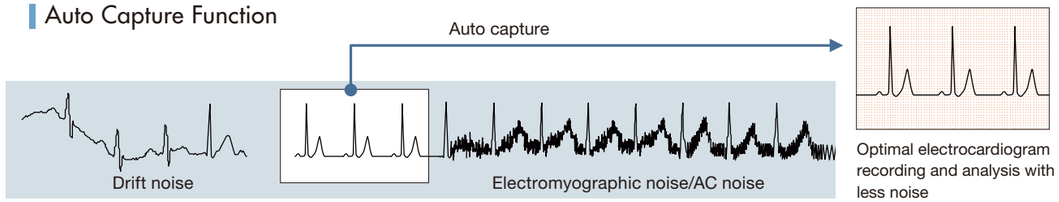


Source: In-house testing results

The TG version extracts P and f waves from the continuous waveforms, performs frequency analysis of extracted waveforms, and analyses the complete atrioventricular block and atrial fibrillation in addition to conventional P wave and f wave measurements.

FX-8300 Supports Anyone Who Operates an Electrocardiograph System

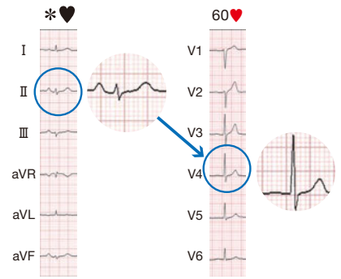
Auto Capture Function



With the auto capture function, waveforms of high severity with less noise are automatically saved.

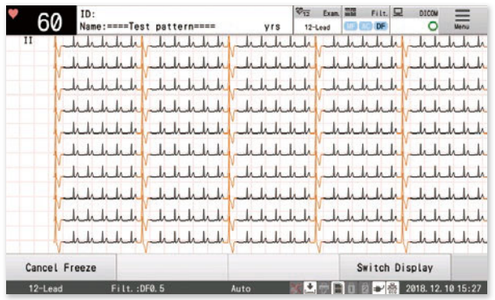
R Wave Detection Lead Auto Switch Function

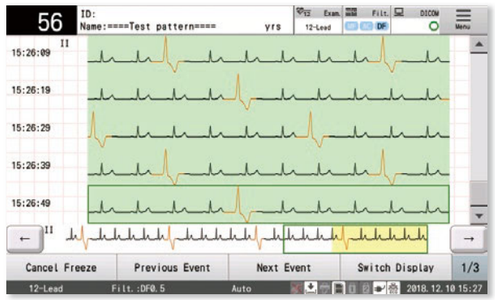
If the amplitude of the R wave detection lead, which counts heart rate, is too small, then it will automatically switch to the most appropriate lead.



Freeze Function

The waveform is stored for up to five minutes so it can be analysed later by selecting an arbitrary place.

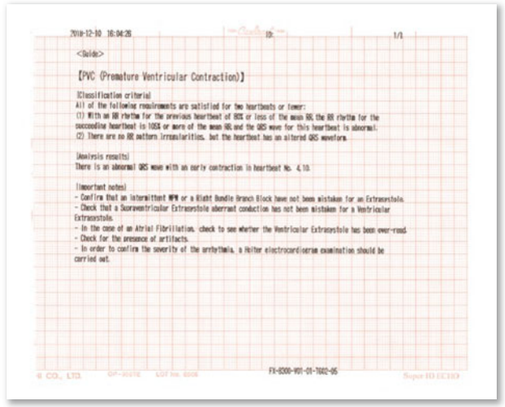




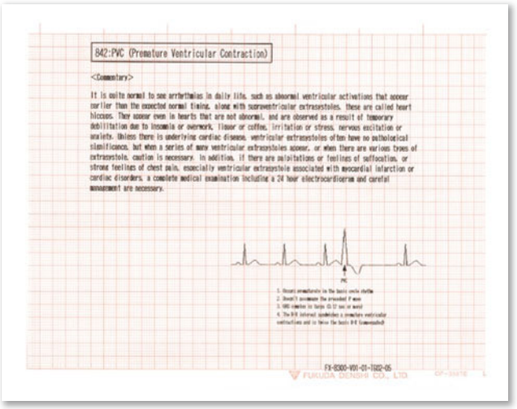
Error Prevention Function

If the right or left electrode has been misplaced, the device will notify the user to check them.

Analysis Report



Commentary Report



For the interpretation obtained during analyses, two types of reports are printed: the Analysis Report, which explains why the interpretation was given, and the Commentary Report, which provides a detailed explanation of that interpretation.

Data Transfer Network