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

Advanced Electrocardiograph
FX-8300

CardiMax
FX-8300
Advanced Electrocardiograph

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.

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.
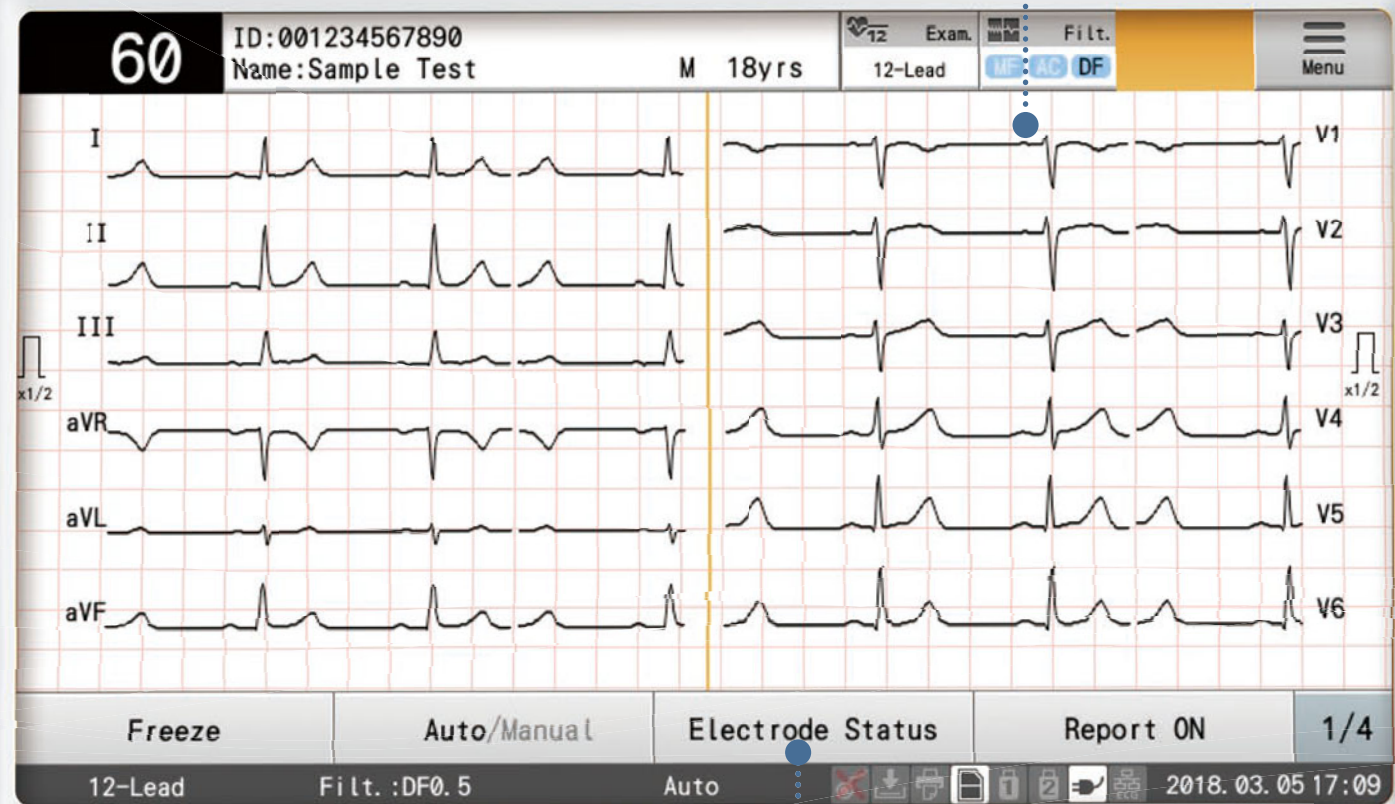
Function Key

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.
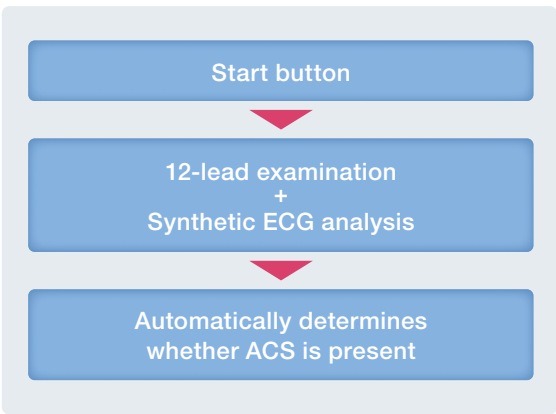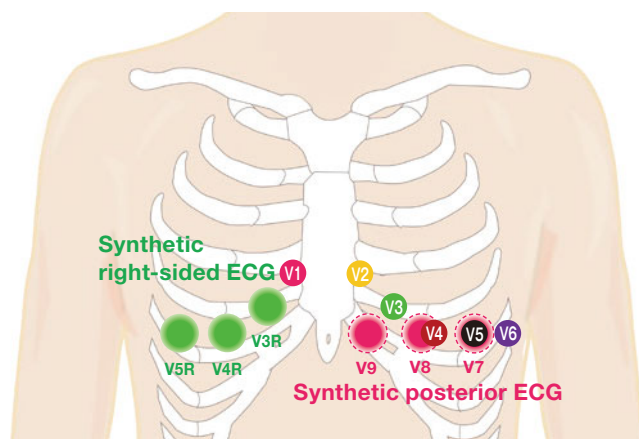

Actual size

ID:001234567890
Name:Sample Test   M 18yrs
12-Lead

I
II
III
aVR
aVL
aVF
V1
V2
V3
V4
V5
V6

Freeze   Auto/Manual   Electrode Status   Report ON   1/4
12-Lead   Filt.:DF0.5   Auto   2018.03.05 17:09

AC POWER   CHARGE

FUKUDA   CardiMax 3   FX-8300

ON/OFF
OFF: HOLD 1 sec.
LEAD   SENS.   RESET   1mV   REVIEW   START/STOP

ACS/Synthesized Lead Analysis 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

Synthetic right-sided ECG

Synthetic posterior ECG

Start button

↓

12-lead examination + Synthetic ECG analysis

↓

Automatically determines whether ACS is present

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.
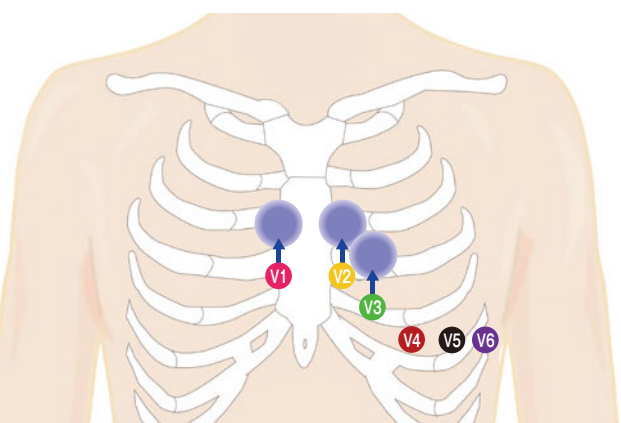
Analysis Result Screen
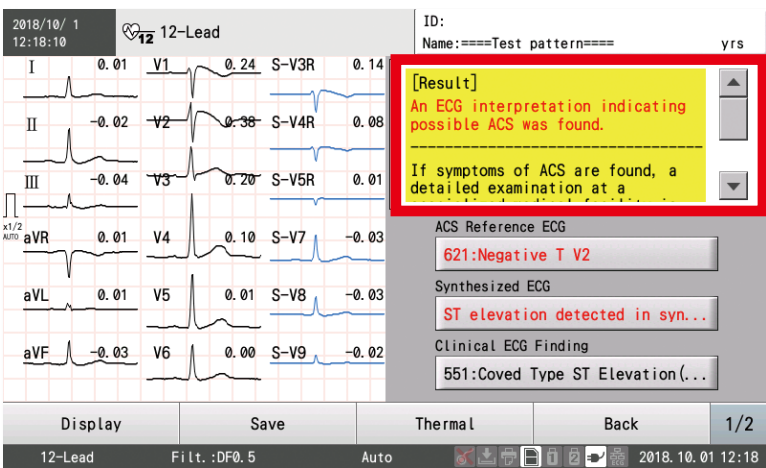
FX-8300 will display comments and findings related to suspected ACS that will provide important information of the patient condition.
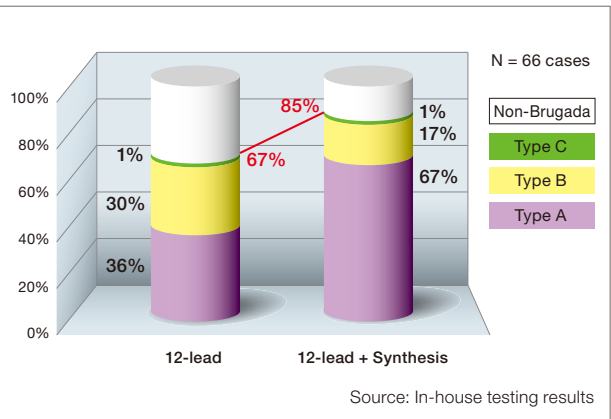
Brugada Risk Analysis

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

Sensitivity of Brugada ECG with Automated Analysis

N = 66 cases

Non-Brugada
Type C
Type B
Type A

Source: In-house testing results

The synthesized electrocardiogram provides enhanced accuracy for detecting Brugada syndrome.

TG Version

Comparison with Previous Version of Analysis Program

Decrease of false positive rate

Increased detection accuracy

N
S2
TG

Atrial flutter | Complete AV block
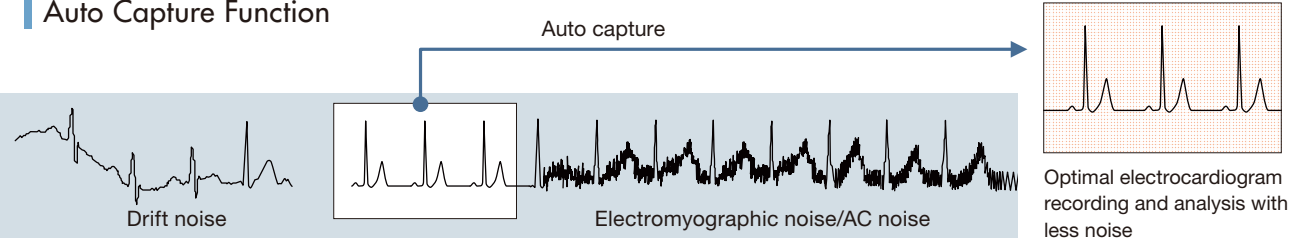
Source: In-house testing results
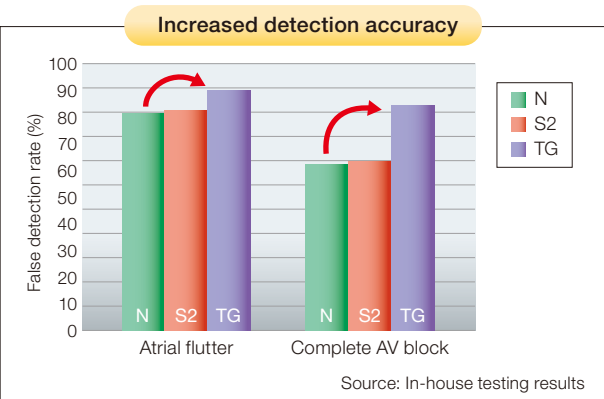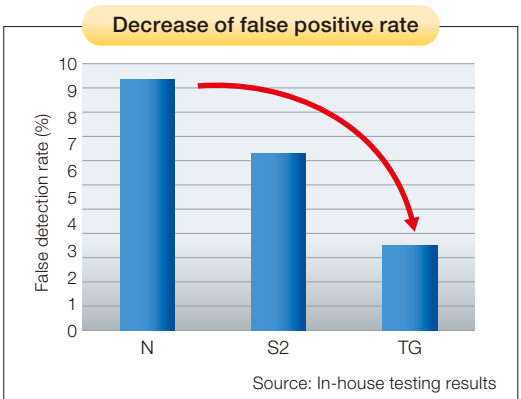
The TG version extracts P and f waves from the continuous waveforms, performs frequency analysis of extracted waveforms, and analyses the complete atrioventricular block and atrial fibrillation in addition to conventional P wave and f wave measurements.

FX-8300 Supports Anyone Who Operates an Electrocardiograph System

Auto Capture Function

Auto capture

Drift noise

Electromyographic noise/AC noise

Optimal electrocardiogram recording and analysis with less noise
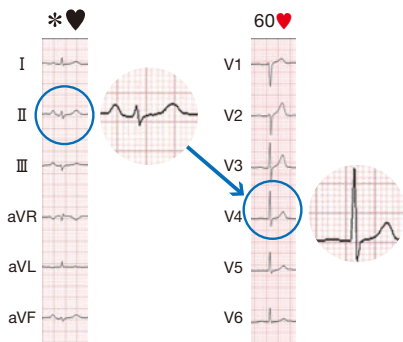
With the auto capture function, waveforms of high severity with less noise are automatically saved.

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

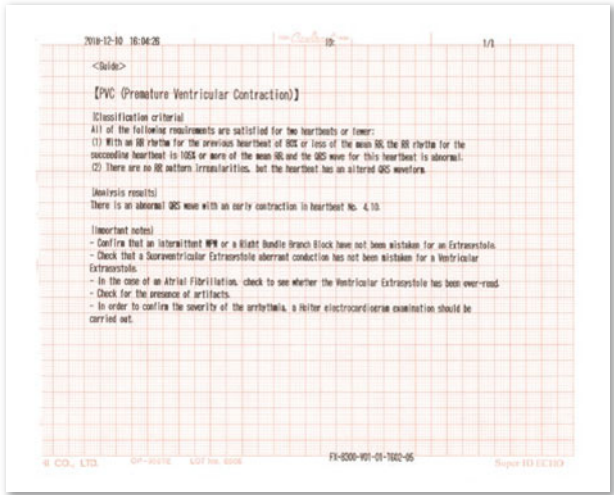The waveform is stored for up to five minutes so it can be analysed later by selecting an arbitrary place.
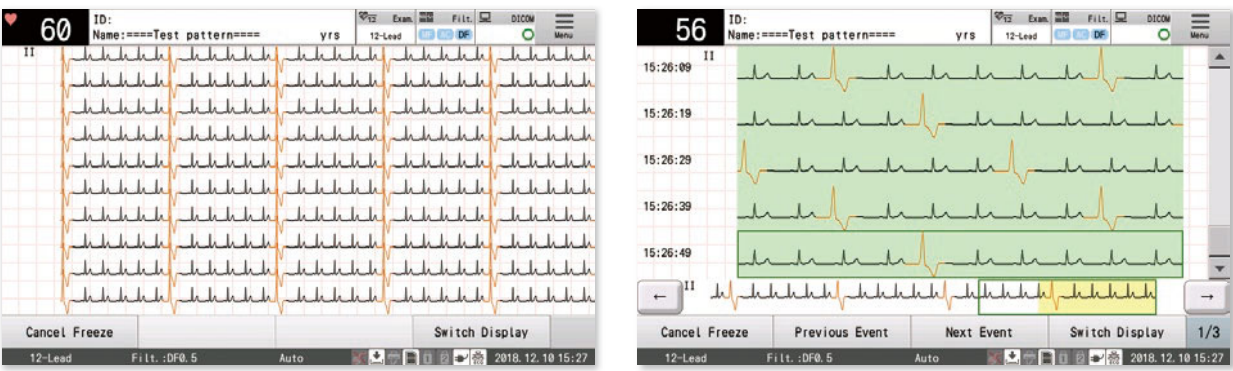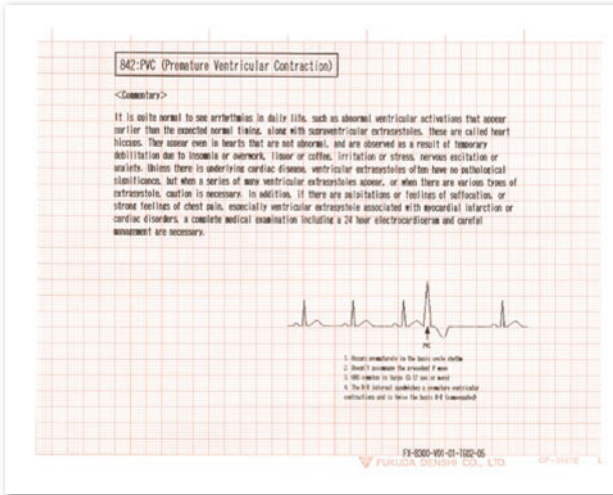
Error Prevention Function

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

Print

DICOM

XML, PDF

Share folder

Specified printer

DMS

HL7/DICOM

PC with EFS-250 (OP)

System
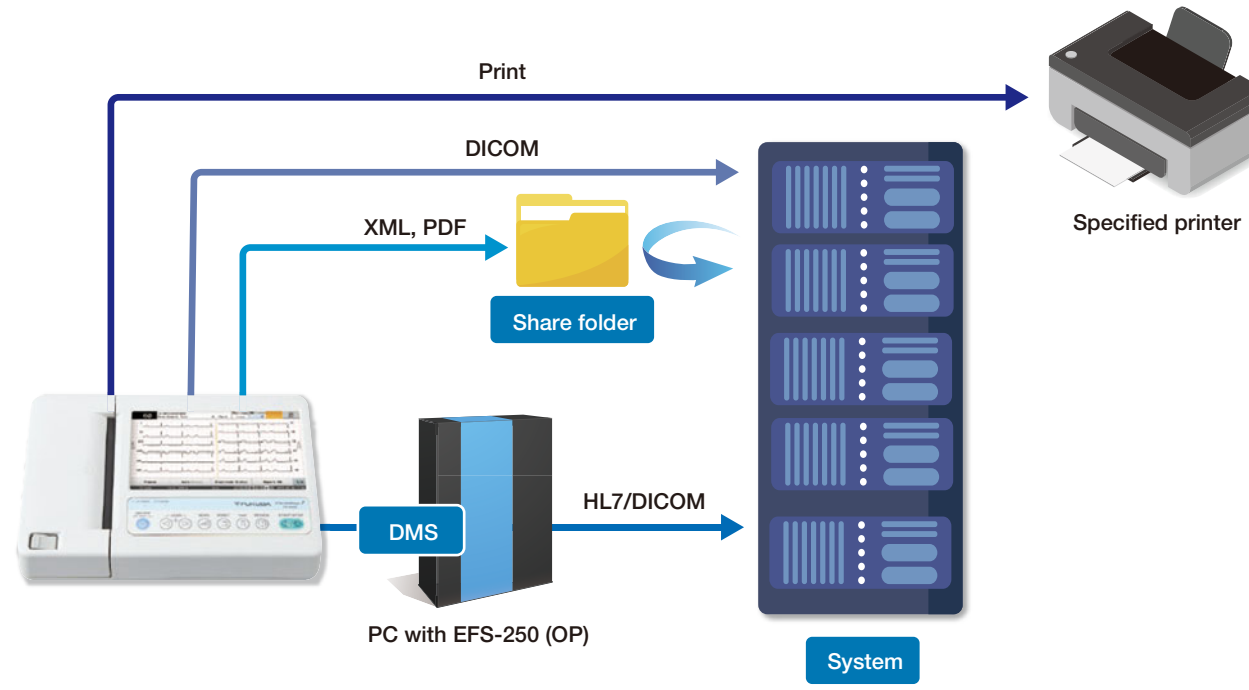
If the data management software (EFS-250, optional) is added, two way communication with EMR is possible.