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, 12 ch,		
Printing Paper	(Roll paper with grids, 210mm) OP-69TE (Z-fold paper with grids, 210mm) OP-618TE, OP-621TE		
Display	8" Color 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		
Serial Port	Compatible with RS-232C, 2 ports		

Equipment

Power Supply	AC power: AC 100-240V 50/60 Hz		
i ower ouppry	DC power :14.8V DC (Battery)		
Power Consumption	100 VA (AC)		
Dimensions (W \times D \times H)	Approx. 330 × 350 × 85 mm / 13.0 x 13.8 x 3.3 inch (not including the protrusion) Approx. 330 × 350 × 112.6 mm / 13.0 x 13.8 x 4.4 inch (including the protrusion)		
Weight	Approximately 4.0 kg / 8.8 lbs (main unit only) Approximately 4.5 kg / 9.9 lbs (including options such as battery)		
Battery operation time	240min		

System Components





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ECG INTERPRETATION SOFTWARE (FP-811)



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

FUKUDA | Accessible Healthcare for Everyone

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CardiMax FX-8400 Electrocardiograph



Electrocardiograph FX-8400





The FX-8400 has a large 8-inch widescreen LCD offering unparalleled ease of use for checking patient data, as well as clear, accurate ECG waveforms.

8-inch Widescreen Color LCD

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

60

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SENS. RESET IMV

(C)

KUDA Cal

START/STOP

DID

Convenient Paper Tray

Custom Key

The user can register up to four (4) customizable, shortcut keys for functions such as cueing the

input of patient information, toggling filter on or

off, manual recording, and auto-printing.

Both Z-fold and roll paper can be set inside the FX-8400.



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 examinations can be saved in the cardiograph's internal memory. Examination data can also be saved on the removable SD card or USB stick (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

By setting up the function keys, the user can create short-cuts to frequently used functions. This enables more efficiency and flexibility during operation.

Full QWERTY Keyboard

A full QWERTY keyboard, standardly provided, facilitates efficient input of patient information and other test information. This keyboard may be ordered in seven (7) other language formats.



Enhanced Functionality for More Electrocardiography (Included in Optional FP-811)

Superior Detection of Acute Coronary Syndrome (ACS)

ACS Diagnostic Support Function

For more effective identification of acute myocardial infarction, the FX-8400 utilizes an 18-lead ECG test (which includes some synthesized leads) and a specialized ACS diagnosis algorithm.



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 Screen



The FX-8400 will produce an interpretation and commentary relevant to ACS, as well as an analysis, shown graphically, that helps to identify the location of the occluded coronary vessel(s).

Predicting and Analyzing ECG Abnormalities Associated with Sudden Cardiac Death

Brugada Risk Analysis

Brugada syndrome is normally detected when placing the leads V1-V3 higher on the intercostal spaces than usual. The FX-8400 is able to detect Brugada syndrome without requiring moving these leads to a higher position. Rather, detection of Brugada syndrome is enhanced through the use of additional synthesized leads.

Synthesized High Intercostal Leads



Brugada syndrome.

Newest Interpretation Program

TG Version

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Comparison with Previous Version of Analysis Program



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.



Added Support for Electrocardiograph Operators

FX-8400 Will Appeal to Anyone Who Operates an **Electrocardiograph System**



The Auto-Capture function will automatically select and save waveforms that have relatively less noise in order to facilitate improved interpretation and diagnosis.

R Wave Detection Lead Auto Switch Function

If the lead being used to measure heart rate is producing an amplitude that is too small, the cardiograph will automatically select a more appropriate lead for this measurement.



Freeze Function

The waveform set obtained for an examination is stored in full for up to five minutes, giving time for the user to select the best portion to be used in the analysis.

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Error Prevention Function

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





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.

