

FX-8222 Specification

ECG Unit

Examination	Standard 12 Leads (Rest / Post exercise) Arrhythmia (3 lead) / Rhythm (R-R measurement, 1 lead )
Sensitivity Selection	1/4, 1/2, 1, 2 cm:manual or automatic
Frequency response	0.05Hz to 150Hz (within -3dB)
Common mode rejection ratio	103dB or more
Polarization Voltage	±550mV or higher
Recording speed	Less than±3% at 5, 10, 12.5, 25, 50 mm/sec
Internal noise	30 μV(p-p) or lower
Filters	AC filter: -20dB or less at 50Hz or 60Hz Muscle filter: -3dB (-6db/oct) at 35Hz or 25Hz Drift filter: -3dB or less at 0.25Hz or 0.5Hz
Recording system	Thermal array head 145mm (waveform/printing)
Display	6.5inch Colour Liquid Crystal Display(LCD), 640 x480dots, with backlighting
A/D conversion	18 bits
Sampling rate	8000 samples/sec
Skew between channels	0 second
Serial port	Conforms to RS-232C, 2 ports
LAN port	Conforms to IEEE802.3u, 10BASE-TX, 1 port
USB port	Conforms to USB2.0, 2 ports
Heart rate display	20 to 300bpm, Error: ±2 bpm or less

Analysis Software FP-804(Optional)

Patient information	ID, age, gender, height, weight, blood pressure, medication, symptoms and locations 1 to 4
Basic measurement	Heart rate, RR, PR, QRS, QT time, QTc, electric axis, SV1, RV5(6)
Interpretation and code	Approximately 120 types
Minnesota code	Approximately 130 types
Grade judgement	4 levels
Exercise test judgement	3 levels (at rest only)

Entire Equipment

Safety	Class I and internal power supply equipment, CF type equipment
Power supply	AC power 100-240 VAC, 50/60Hz, DC power 11.1VDC (Battery pack)
Power consumption	100VA(during AC operation)
Battery Operation Time	Approx. 90 minutes
Outside dimensions	W307 x D220 x H65mm
Weight	Approx. 3kg
Operation Environment	Temperature -10℃ to 40℃, Humidity 25 to 95% (No condensation allowed)
Storage Environment	Temperature 10℃ to 50℃, Humidity 10 to 95% (No condensation allowed)

Optional Items

Built-in battery	BTE-001	Lithium ion
SD card	SD-1G	capacity: 1GB
Recording paper	OP-358TE	Roll paper (145mm)
Recording paper	OP-382TE	Z-fold paper (145mm)
Trolley	OTE-03	
Cable hanger	OA-300A	
Analysis software	FP-804	





# Here comes a true leading-edge electrocardiograph.

The best-selling electrocardiograph with 145 mm wide paper has been developed from Fukuda Denshi's long history over 70 years. The FX-8222 comes with a smarter design and easier operation. For more efficiency and agreeable ECG examination, functions and performance have been enriched and also the operating environment has been outstandingly upgraded. Experience an electrocardiograph, which is different from the conventional ones.

**Colour Universal Design**

Icons are used for the operation menu, enabling further intelligible handling.

**High quality Colour Display**

The 6.5-inch colour display, largest in its class, features a high resolution screen 640 x 480 dots, allowing to present high-quality waveforms.



**Internal Memory**

Can store approximately 500 examinations of 10-second 12-lead ECG data.

**External Memory**

Data can also be saved in a USB memory or an SD card (optional).

**Versatile Network Function**

In addition to the ordinary network connection via the LAN port, wireless data communication is also possible by connecting an optional wireless LAN adapter to the USB port.

**Data Output Format**

Besides Fukuda's original format, the MFER format (ISO/TS 11073-92001) is also available for data output.

**Convenient Paper tray**

Enables either Z-fold paper or roll paper to be set inside the instrument.

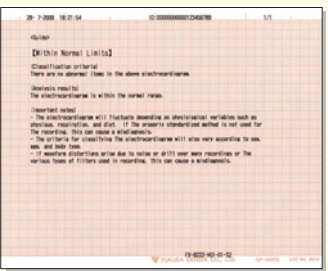
**Touch Screen**

Ensures easy operation for any staff member who is not familiar with the instrument.

## Functions that efficiently support ECG examination

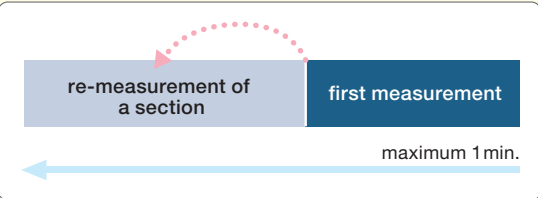
### Analysis Guide Report (Optional)

Indicates information related to prevention and the next examination, action and treatment, referring to the obtained analysis interpretation. It is also useful for understanding the interpretation of specialized cases.



### Rewind Function

Ensures safe examination through re-measurement of any selected data from the first measurement (maximum 1 minute).



### Bar Code/Card Reader-compatible

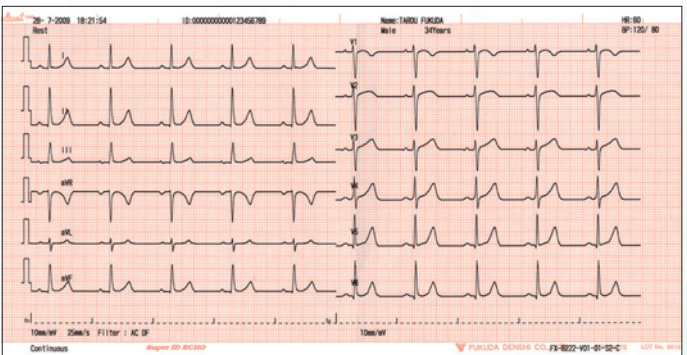
Using the bar code or ID card reader, allows a quick and error-free input, and ensures prevention of erroneous input of patient data for efficient examination.



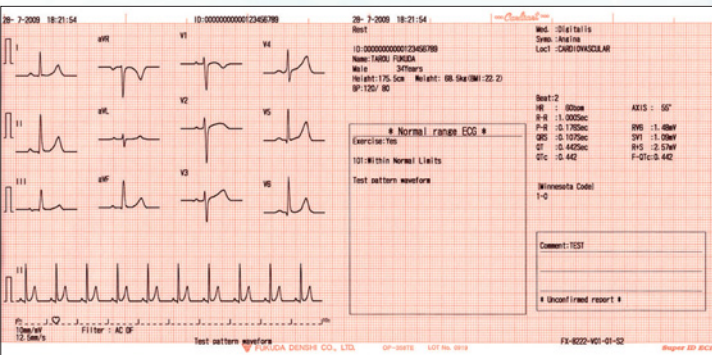
### Analysis Function Optional

The optional analysis software (from SD card) enables the FX-8222 to have the latest ECG analysis function. This additional function supports examination by providing multi-view reports and analysis reports.

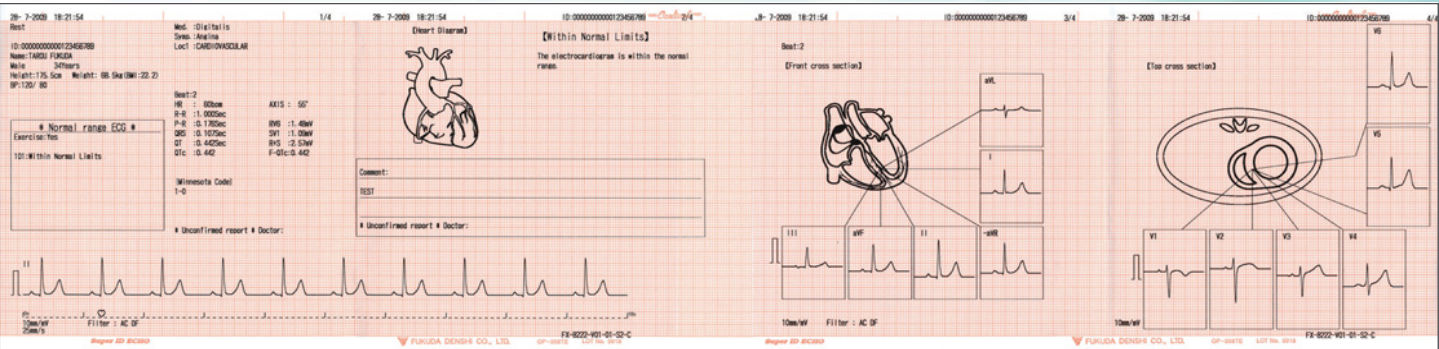
## Useful Report Output for ECG Interpretation



▲ Automatic waveform report (6chx2)



▲ Analysis result (option) report (DOM1)



**Multi-view Report (Optional)**

Displays a concrete image of the ECG analysis result (abnormality). A glance at the report enables the physician to grasp all the information. And the illustrations in the report are very useful to determine/presume any abnormal region. The report is also useful for getting informed consent from the patient.

**Surface View**

Displays an illustration of the whole heart and analysis interpretation. It is useful for explaining the ischemic or infarct region or the morphologic abnormality to the patient.

**Frontal View**

Displays the front cross section of the heart viewed from the front. It excels in indicating the Arrhythmia's origin or conduction disorder.

**Horizontal View**

Displays the top cross section of the heart viewed from the top. In addition to the merits of the surface view, it excels in indicating posterior wall infarction.