

Up-to-date performance that can handle a wide range of needs!

This electrocardiograph will surely change the future examination style.



Introducing the new flat-style electrocardiograph with 210 mm wide paper.

It comes with a smarter design, easier operability and up-to-date performance capabilities,
expecting renovation of the conventional examination style.

FX-8322/FX-8322R 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, 2cm/sec;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, 50mm/sec
Internal noise	30μ V(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 210mm(waveform/printing)
Display	6.5inch Colour Liquid Crystal Display(LCD), 640×480dots, 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 ports
USB port	Conforms to USB2.0, 2 ports
Heart rate display	20 to 300bpm, Error:±2bpm or less
VGA output(FX-8322R)	External monitor connection for Stress Test

Analysis Software

FP-805(option)

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)

Equipment

Safety	Class I and internal power supply equipment, CF type equipment
Power supply	AC power 100-240VAC, 50/60Hz, DC power 14.8VDC (Battery pack)
Power consumption	100VA (during AC operation)
Battery Operation Time	Approx. 90 minutes
Outside dimensions	W370×D320×H89mm
Weight	Approx. 5.2kg(Excluding battery pack)
Operation Environment	Temperature -10°C to 40°C, Humidity 25 to 95% (No condensation allowed)
Storage Environment	Temperature -10°C to 50°C, Humidity 10 to 95% (No condensation allowed)

Optional Items

Common accessory package	ASE-02(Included Power cable, Patient cable, Limb electrodes, Chest electrodes, Keratin cream)
Built-in battery	BET-002 Lithium ion
SD card	SD-1G capacity:1GB
Recording paper	OP-69TE Roll paper (Built-in type 30m)
Recording paper	OP-618TE Z-fold paper (Built-in type 30m)
Recording paper	OP-621TE Z-fold paper (External-mount type 100m)
Trolley	OTE-02
Cable hanger	OA-300A
Analysis software	FP-805

Optional Items for Stress Test(only for model FX-8322R)

Stress Test software	FP-805S
Input Box	CIS-03BKP
Patient cables(clips)	CMS-05FTA
Clip electrodes	TE-171 Echo Rode II
External monitor	L-561T-CB

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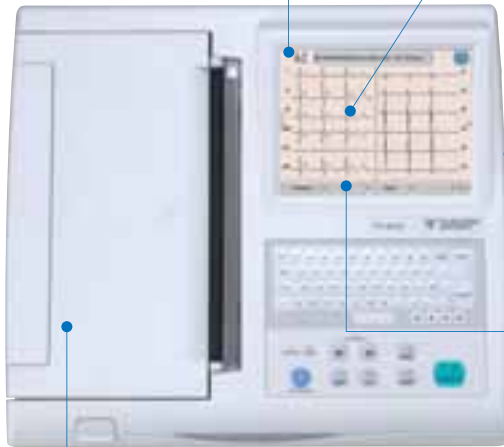
Colour Universal Design

Icons are used for the operation menu, enabling further intelligible handling. Furthermore, the Colour Universal Design is adopted to assure easy visual discrimination.



Highly-precise Colour Display

The 6.5-inch colour display, largest in its class, features a high resolution display of 640 x 480dots, ensuring the presentation of high-quality waveforms. The angled display ensures easier observation.



External Memory

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



Multi language sheet

Full Qwerty Keyboard

Full Qwerty keyboard is provided as standard. This facilitates the input of patient names, etc. (Besides English, the keyboard is available in five languages.)

Touch Screen

Ensures easy operation for any staff member who does not usually use the instrument.

Convenient Paper Tray

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



Rewind Function

Enables reanalysis of data from the section (time zone) once analyzed. (See the figure.)



Bar Code/Card Reader-compatible (Optional)

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



Internal Memory (500 data sets)

Each ECG examination result is always stored in the internal memory and if required, can be saved in a USB memory or SD card for backup.

Alarm Message against Improper Electrode Placement

Immediately alerts the staff to the possibility of improper electrode placement if the electrodes are contrarily attached to the right and left arms, eliminating a fear of finding out such a mistake after the patient leaves the hospital.



Simple Registration of Patient Information

If saved in SD card, patient information can immediately be entered by inputting the ID number only.

New Reports that support the ECG examination

Analysis Function Option

The optional analysis software enables the FX-8322/8322R to have the latest ECG analysis function. This additional function supports examination by providing multi-view reports and analysis reports.

Multi-view Report (requires optional analysis software)

Helps the physician interpret the ECG and get informed consent from the patient.

Surface View

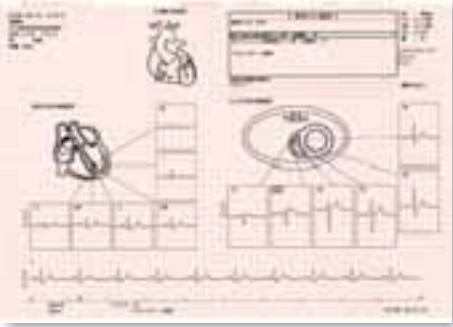
Presents an illustration of the whole heart and analysis interpretation. It is useful for explaining an ischemic or infarct region or morphologic abnormality to the patient.

Frontal View

Presents the section of the heart viewed from the front. It excels in indicating the arrhythmia generating origin or conduction disorder.

Horizontal View

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



Analysis Guide Report (requires optional analysis software)

Indicates preventive measures and advisable information on the next examination and treatment, referring to the obtained analysis interpretation. It is also useful for understanding the interpretation of highly specialized cases.

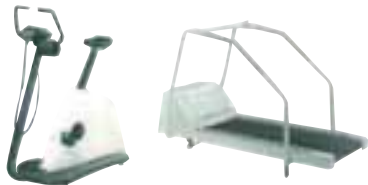


Interpretation commentary report (requires optional analysis software)

A commentary on the interpretation obtained from the automatic analysis can give more detailed clinical viewpoint. It is a summary of the interpretation and also useful for the patient's informed consent.

Stress Test Option (FX-8322R only)

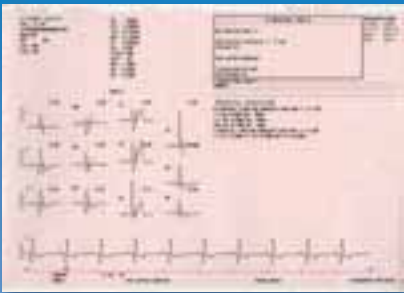
The FX-8322R can be provided with the optional stress test function. In stress tests, the optional external monitor enables the staff to monitor waveforms and measurements while checking the patient condition.



Versatile Reports with rich clinical information



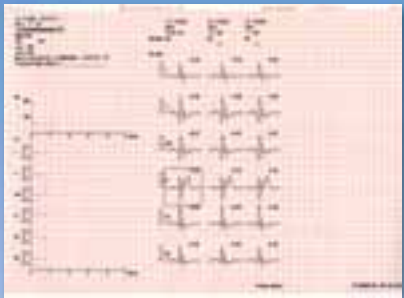
Automatic waveform report (6chx2)



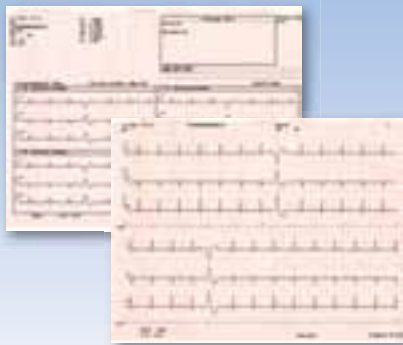
Analysis result report



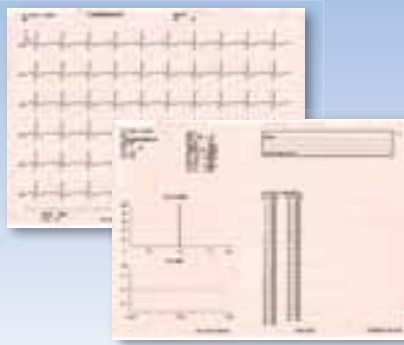
Detailed measurements report



Post-exercise summary report



Arrhythmia waveform and result report



RR rhythm measurement report