

FCP-7101/FX-7102 Specifications

ECG	
Leads	Standard 12 Leads
Sensitivity Selection	1/4, 1/2, 1, 2 cm/mV; manual or automatic
Time Constant	3.2 sec or greater
Frequency response	0.05Hz to 150Hz (Within -3dB)
Common mode rejection ratio	103dB or greater
Max. electrode potential	± 550mV or greater
A/D conversion	13 bits
Sampling frequency	1000 samples/sec/channel
Filters	AC: 50 or 60Hz, -20dB or less Muscle: 25 or 35Hz, -3dB (-6dB/oct) Drift: 0.25 or 0.5Hz, -3dB (-6dB/oct)
Interpretation Function	Yes (FCP-7101 only)
Arrhythmia Analysis	Yes (FCP-7101 only)
ECG Storage	
Internal memory	128 measurements or greater
Display	
Device	LCD
Display area	115mm (H) x 86mm (V)
Resolution	320 x 240 dots
Representation	3 / 6 / 12 channels/display
Operation	
Devices for operation	Membrane keys
Recorder	
Method	Thermal dot array
Paper speed	5, 10, 12.5, 25 or 50mm/sec
Recording paper	Roll: 63mm x 30m (OP-119TE), Z-fold: 63mm x 20m (OP-122TE)
I/O interface	
Communication port	LAN port
Safety	
Regulatory standards	IEC60601-1, IEC60601-2-25, IEC60601-2-51
Electrical shock protection	Class II, Type CF and Internally powered equipment
Conformity	CE marking per 93/42/EEC Directive
General	
Power requirements	100 to 240V AC Universal (AC Adapter Type), 50/60Hz, 70VA or 9.6V (optional rechargeable battery pack), 40W
Dimensions	225 (W) x 180 (D) x 50 (H) mm
Weight	Approx. 1.2 Kg (w/o battery)
Option	
Rechargeable battery	8PH-4/3A3700-H-J18 (Ni-MH)
50mm Adapter set	OA-458

FUKUDA DENSHI reserves the right to change specifications without notice.

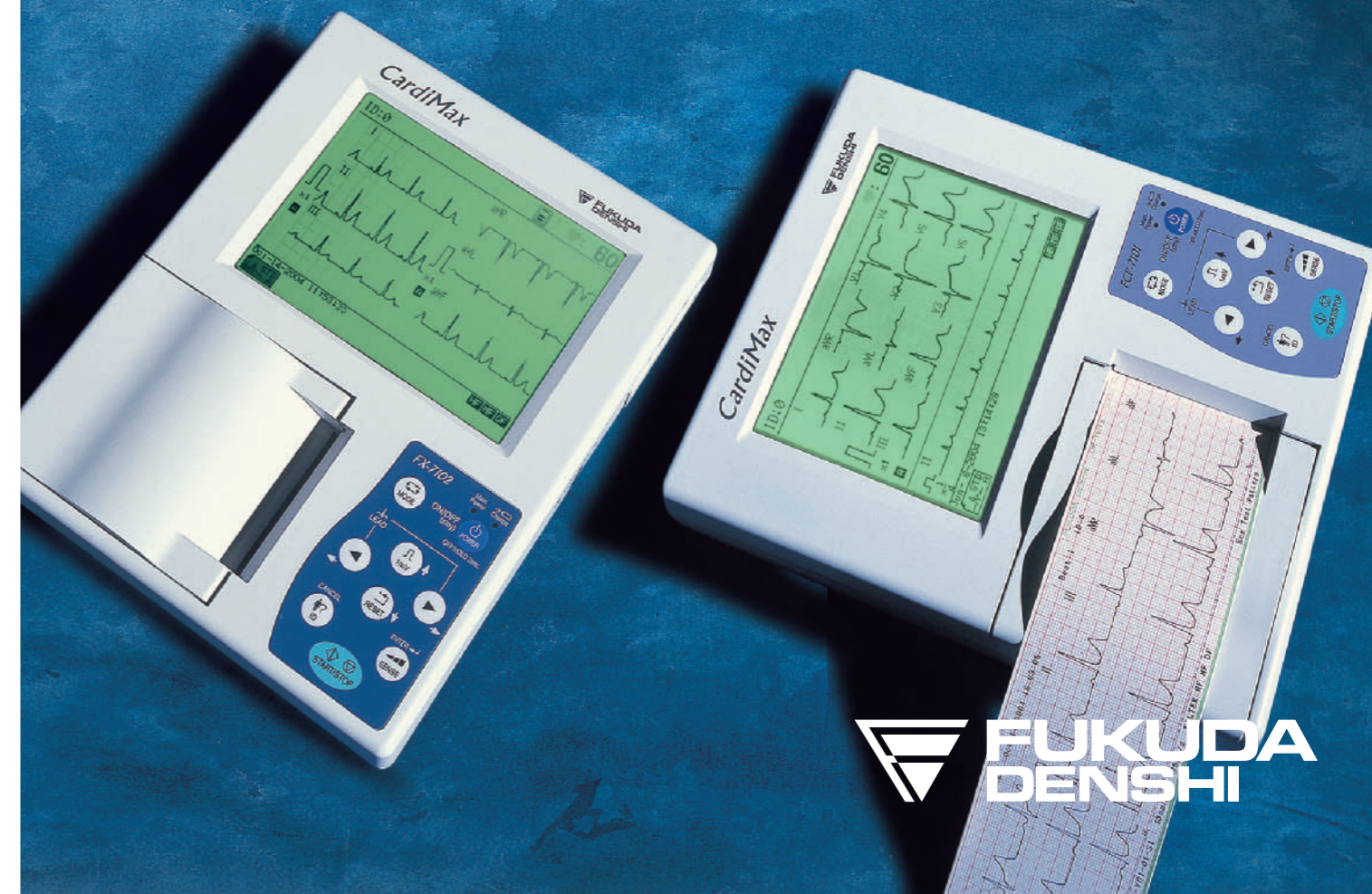
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CardiMax

**FCP-7101
FX-7102**

Advanced Electrocardiograph



**FUKUDA
DENSHI**



Compact and Portable



The FCP-7101/FX-7102 is one of the smallest and lightest weight ECG units on the market. It's large LCD display offers unparalleled ease of use for checking in patient data as well as clear, accurate viewing of ECG waveforms.

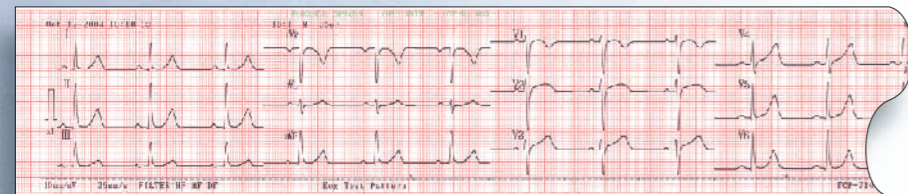
Standard 12-lead ECG Waveform

The FCP-7101/FX-7102 features the largest LCD in its class. The large LCD screen allows the user to review real-time ECG waveforms, up to 12 leads at a time. The increased viewing area provides superior viewing of critical waveforms and heart rate. In addition, the larger viewing area is much easier for reviewing patient demographics and instrument settings.



Selectable of Recording Formats

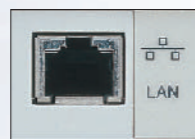
The user can select recording formats from 1 or 3-channels. The Automatic Recording Mode allows these selections as well as the selection of a 1 channel + 1 rhythm lead with a selectable continuous recording waveforms mode. Reporting format for measurement or analysis can be selected as required.



Internal Memory

A standard Internal Memory allows user to store waveforms and measurement/analysis data for up to 128 examinations. The operator can review selected ECG data from the memory on LCD screen or for recording as required. A data list can be also printed. In addition to these, FCP-7101 can print the selected Findings for operator's needs.

NO.	DATE	TIME	ID NO.	SEX	AGE	FILE
1	07-17-2004	13:24	1	M	35	ARR-V
2	07-17-2004	13:22	1	M	35	ARR-V
3	07-17-2004	13:21	1	M	35	ARR-V
4	07-17-2004	13:20	1	M	35	ARR-V
5	07-17-2004	13:19	1	M	35	ARR-V
6	07-17-2004	13:18	1	M	35	ARR-V
7	07-17-2004	13:18	1	M	35	ARR-V
8	07-17-2004	13:17	1	M	35	ARR-V
9	07-17-2004	13:06	1	M	35	ARR-V
10	07-17-2004	13:04	1	M	35	ARR-V

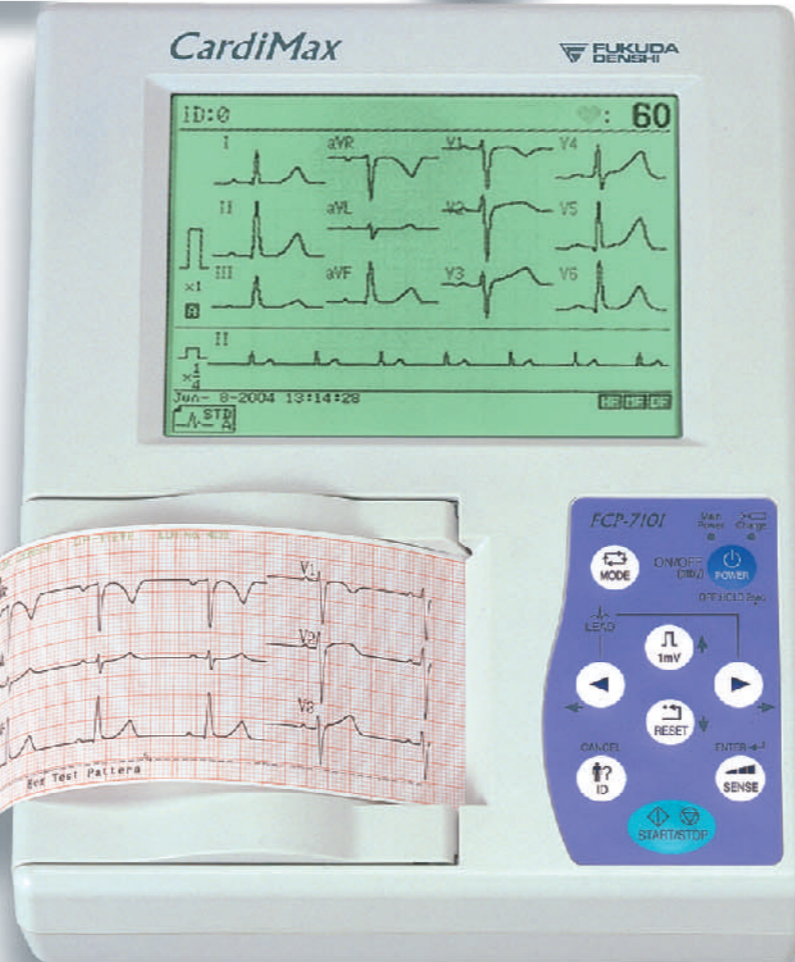


Communication Port

The LAN port is standard equipped. ECG data can be output as standard format, SCP-ECG, through LAN port. Therefore the unit can be connected with a personal computer to establish data filing system as additional data storage.

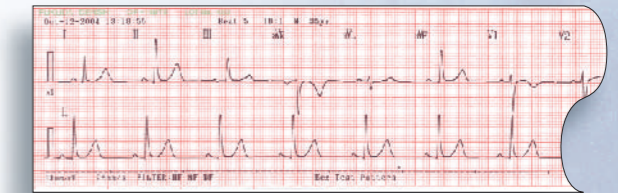
Battery Operation (Option)

An optional built-in battery allows the unit to operate up to 3 hours without being connected to the AC adapter. This convenient feature allows the user to conduct ECG examinations even when AC power may not be available.



Interpretation and Arrhythmia Function (FCP-7101 only)

Arrhythmia analysis and interpretation is a standard feature on the FCP-7101. In addition to interpretation function, FCP-7101 provides an Analysis Guide and Findings functions, to aid the physician understanding of the criteria used for analysis of waveforms.



Analysis	Criteria	Result
PR Interval	120-200ms	180ms
PRP	>250ms	260ms
QT	350-440ms	380ms
QTc	350-440ms	380ms
QTd	350-440ms	380ms
QTJ	350-440ms	380ms
QTm	350-440ms	380ms
QTn	350-440ms	380ms
QTp	350-440ms	380ms
QTq	350-440ms	380ms
QTs	350-440ms	380ms
QTt	350-440ms	380ms
QTu	350-440ms	380ms
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QTw	350-440ms	380ms
QTx	350-440ms	380ms
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▲ Analysis Guide

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QTt	350-440ms	380ms
QTu	350-440ms	380ms
QTv	350-440ms	380ms
QTw	350-440ms	380ms
QTx	350-440ms	380ms
QTy	350-440ms	380ms
QTz	350-440ms	380ms

▲ Findings

The arrhythmia analysis function is incorporated to facilitate verification of arrhythmia events that are difficult to detect through short-term ECG monitoring. FCP-7101 analyzes a selected 3 leads for a maximum of three minutes and records the result.

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