

FF Cardio **FCU-2000** Ultrasound-ECG



Features

- Integrated System for Diagnostic Ultrasound & interpretive 12-Lead ECG
- Multi-Frequency Function enables selection of 3 frequencies in each Transducer
- High Fidelity Thermal Recorder for common use ECG & US
- Flexible Image Data Filing by IC Memory Card
- Enhanced 12-lead ECG analysis report provided
- M-mode continuous recording available
- Wide 10.4 in Color-LCD adopted
- B, B/B, M, and B/M Mode display
- General Calculation Package for OB, Distance, Area, Volume, and Cardiovascular
- OB Calculation data shown on Report & Graph page
- High frame rate supports cardiac imaging
- Scroll memory with 8 page in M-mode with ECG&PCG
- Cine memory with 64 frames for B-mode
- 4 types of Color Scale Imaging facilitate identification of delicate signals
- Hybrid and compact design ensures space saving

Applications

- Cardiovascular
- Abdominal
- OB/GYN
- Musculoskeletal
- Small Parts

Specifications

Electrocardiograph

Leads	Standard 12 Leads or Cabrera
Input circuit	Floating Input method
Input impedance	More than 50MΩ
A/D Conversion	13 bits
Input circuit current	Less than 5 x 10 ⁻⁸ A
Polarization voltage	More than ± 400mV
Common mode rejection	Lower than 2mmp-p
Time constant	More than 3.2sec
Input range	More than ± 18mV
Internal noise	20μVp-p
Frequency Response	0.05 ~ 150Hz within -3dB
Sensitivity	Auto, 1/4, 1/2, 1 and 2 cm/mV
Filters	
AC	50 or 60Hz, Less than -20dB
EMG	25Hz or 35Hz, -3dB(-6dB/oct)
Drift	0.5Hz, less -3dB
High-cut	75Hz or 100Hz, less -3dB
Recording speed	10, 25, 50mm/sec
Measurement	Heart rate, R-R time, P-R time, QRS time, QT time, QTc, Electric Axis, SV1, RV5/6, R+S
Interpretation and code	Approx. 110 types
Minnesota code	Approx. 130 types

Ultrasound Scanner

Scanning methods	Convex / Micro Convex / Linear
Display mode	B, B/B, B/M, M
B-mode:	Focus method Transmit 4 steps
	Frequency 3 selectable
	Display Mag 5 steps
	Display Control Up/Down
	Right/Left
	Angle
	Color Scale Image 4 types
M-mode:	Display mode Scroll
	Sweep speed 3 steps
Imaging Control	GAIN (continuously variable)
	STC Near & Far
	AGC 5 steps
	Contrast 7 steps
	Frame correlation 3 steps
	Gamma 4 steps
	IP 7 steps, variable
Cine Memory	B-mode: 64 frames
Scroll Memory	M-mode: 8 page
Biological signal	ECG, PCG
Measurements and Calculations:	
General:	Distance, Area, Circumference, Volume
M-mode:	Velocity, Heart rate, Left ventricle function
OB/GYN:	Gestational week, Expected delivery Date, Fetal weight

Display

Monitor 10.4in TFT Color LCD, 640 x 480 dots, VGA signal display

Recorder

Recording method Thermal print head
 Paper speed 10, 25, 50mm/sec(± 3%) for ECG recording, 3 to 4 sec/ frame for Ultrasound recording
 Recording density 12 dot/mm
 Paper Rolled paper 145mmx30m (ECG & Ultrasound)

Auxiliary Input/Output Terminal

Frozen Image output One BNC for external Video Printer (NTSC)
 PC Card One PCMCIA for ECG and Image data filing

General

Safety IEC60601-1 (Class I, Type BF,)
 Power AC 100 ~ 230V ± 10%, 50/60 Hz
 Power Consumption Approx. 370VA

External dimensions 360(W) x 370(D) x 150(H)mm

Weight Approx. 12Kg

Operation Environment

Environment temperatur 10 ~ 40°C
 Humidity 30 ~ 85% (No Condensation)
 Air pressure 70 ~ 106Kpa

Optional Probes

FUT- CS602-5A	2.5 / 3.5 / 5.0MHz	60R Convex	FUT- CS152-5A	2.5 / 3.5 / 5.0MHz	15R Convex
FUT- CS505-8A	5.0 / 6.5 / 8.0MHz	50R Convex	FUT- CS105-8A	5.0 / 6.5 / 8.0MHz	10R Convex
FUT- LS386-9A	6.0 / 7.5 / 9.0MHz	38mm Linear	FUT- TV35-5	5.0 / 6.0 / 7.0MHz	12R Transvaginal

FUKUDA DENSHI reserves the right to change specifications without notice.



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