

# F2

## Fetal Monitor

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Twin Monitoring Capabilities



Central Monitoring System Supportive



Multi-display Modes

The F2 fetal monitor combines an exquisite design and advanced functionality to cater to the diverse requirements of obstetrical departments in clinics and and OBGYN offices. Remarkably lightweight and portable, the F2 is an ideal solution for outpatient services.

## Features:

- Foldable 5.6" black and white screen
- Backup memory for smooth monitoring
- Built-in fast-printing thermal printer
- Large numeric and graphic display for easy readability
- Long-life Li-ion battery for guaranteed mobility
- Convenient probe rack and compact design



**Basic Parameters:** FHR, TOCO, AFM, Fetal Movement

## Easy-to-Use:



Start



Silence



Auto Zero



Mark



Print



Channel



The selection knob and functional keys provides various shortcuts to achieve functions for clinical use. The 'start' button can be configured to integrate patient info and printing, helping the doctor simplify the workflow and operate with only one button.

### Convenient to Carry or Transport

- Compact, portable, and lightweight
- Long life Lithium-ion battery for outpatient service

### Advanced FHR Detection Technology

- Signals Overlap Verification to differentiate twins FHR
- FHR signal quality indicator helps optimize the probe position

### Flexible Printing Option

- Built-in thermoprinter
- FHR Offset -20/+20 BPM printing options
- Print on 150/152 mm width recording paper
- 1/2/3 cm/min real-time printing speed
- 15 mm/sec fast printing speed for history traces

### Powerful Data Management

- 12 hours built-up memory for seamless monitoring
- MFM-CNS network for remote monitoring
- CNS-Lite for data management to PC
- USB port to enlarge storage capacity



## Included Accessories

- TOCO Probe — **02.01.210259**
- FHR Probe, Qty 2 — **02.01.107705015**
- Event Marker — **02.01.210095**
- Rechargeable Lithium-Ion Battery (14.8V, 5000mAh)— **01.21.064143**
- Power Cord — **01.13.036638**
- Belt, Qty 3 — **933862**
- Recording Paper — **Fetal-P**
- Ethernet Cable
- Ultrasound Gel (250g)
- Fuse

# Specifications

## PHYSICAL SPECIFICATION

Dimensions:  
350 mm x 300 mm x 104 mm

## DISPLAY

5.6"  
112.9 mm(W) x 84.7 mm(H)  
640 (RGB) x 480  
Normally White, Transmissive

## POWER SUPPLY

Main Supply:  
Operating Voltage: 100V ~ 240  
V~  
Operating Frequency: 50 Hz/60  
Hz  
Input Power: 70 VA  
Battery: 14.8 VDC/5000 mAh  
Rechargeable Li-ion Battery:  
Nominal Capacity: 5000 mAh  
Continuous Working Time >7  
hours  
Nominal Voltage: 14.8V  
Necessary Charge Time <6  
hours  
Cycle Life ≥300 times

## SIGNAL INTERFACE

DB9  
RJ45 Interface

## ULTRASOUND TRANSDUCER

8-Crystal Transducer  
Cable Length: 2.5 m  
Weight: 190 g  
Dimension: 88 mm x 35 mm  
Color Pink

## TOCO

TOCO Range: 0-100  
Non-linear Error: ±10%  
Resolution: 1%  
Baseline Drift due to  
Temperature Changes:  
1 unit/min/°C (free air)  
5 units/min/°C (underwater)  
Zero Mode:  
Automatic (TOCO value  
becomes zero or below  
lasting for 30 seconds)/  
Manual

## FHR

Operating Mode:  
Ultrasound Pulse Doppler  
with autocorrelation  
Working Frequency: (1.0±10%) MHz  
Pulse Repetition Rate: 2 KHz  
Pulse Duration: 92 µs  
FHR Measurement Range:  
50 bpm ~ 240 bpm  
Resolution: 1 bpm  
Accuracy: ±2 bpm  
Alarm: FHR Alarm  
Ultrasound Output:  
sppa.3 <190 W/cm<sup>2</sup>  
spta.3 <94 mW/cm<sup>2</sup>  
sata 20 mW/cm<sup>2</sup>  
TI<1.0 MI<1.0  
Temperature Rise:  
When applied to the patient, the  
ultrasound transducer may warm  
slightly (less than 2°C ( 3.63.6°F ) above  
ambient temperature). When NOT  
applied, at the ambient temperature  
of 40 °C 104.104°F ), the ultrasound  
transducer may reach the highest  
temperature of 43 °C 109.4109.4°F  
Effective Radiating Area:  
(942±15%) mm<sup>2</sup>  
Dielectric Strength: 4000 Vrms  
ISATA@the Transducer Face:  
1.865 mW/cm<sup>2</sup>

Entrance Beam: 6.08 cm<sup>2</sup>  
Measurement Uncertainties  
for ISATA: +26.6%  
Measurement Uncertainties  
for Ultrasonic Power: +26.6%

## MFM&AFM

Display Range: 0 ~ 999  
FM Mode: Automatic/Manual  
AFM Mode: Trace (default) / Black  
Mark  
AMF Technique: Pulsed Doppler  
Ultrasound

## TOCO TRANSDUCER

Cable Length: 2.5 mm  
Weight: 180 g  
Dimension: 88 mm x 35 mm

## RECORDING

Recorder: Thermal Dot Matrix Recorder  
Paper:  
Z-fold, Thermosensitive  
(compatible with GE and  
PHILIPS recorder papers)  
Paper Width: 152 mm /150mm  
Effective Printing Width:  
110 mm (American Standard)  
120 mm (International Standard)  
FHR Printout Width:  
70 mm (American Standard)  
80 mm (International Standard)  
FHR Scaling:  
30 bpm/cm (American Standard)  
20 bpm/cm (International Standard)  
TOCO Printout Width: 40 mm  
TOCO Scaling: 25%/cm  
Printing Speed:  
Standard Speed  
(RealTime Traces) 1/2/3 cm/min  
Fast Print Speed  
(Stored Traces) Up to 15mm/sec  
Accuracy of Data:  
± 5% (X-Axis)  
± 1% (Y-Axis)  
Resolution:  
8 dots/mm

## DATA TRANSMISSION

Data Export: Ethernet/USB  
Report Format: TRC  
Data Management System:  
MFM-CNS/MFM-CNS Lite  
HIS connection: HL7/GDT