

F9 Fetal Monitor



The F9 is a high end fetal & maternal monitor. It offers the most advanced integrated monitoring for use in the delivery room, by large hospitals, by private obstetricians and by antepartum clinics. The F9 is designed for portable and fixed use.

Simple operation:

Folded up screen, probe rack and wall mounting rack, handle for easy carrying, user friendly GUI with 2 display modes and 4 colour schemes.

Powerful Functions:

24 Hours CTG storage, fast print for stored traces, Signal Overlap Verification alerts when two FHR probes process the heart rate signal from the same source.

Outstanding Performance:

12 inch colour screen, excellent algorithm, 12 crystal and 1MHz waterproof transducers for accurate detection.



CONNECTS TO WIRELESS OR ETHERNET NETWORKS



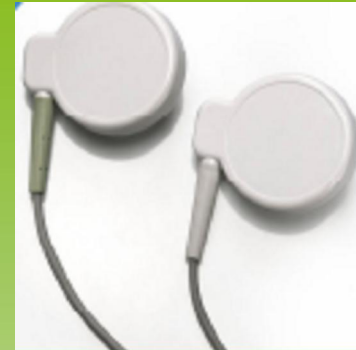
F9 Fetal Monitor Features

The F9 has many built-in functions, including: twins fetal heart rate, uterine activity, fetal movement, intrauterine pressure, fetal direct ECG, Maternal ECG, NIBP, SpO₂, ECG and temperature monitoring.

Our new 12 crystal, waterproof ultrasound transducers provide broad beam pulsed waves. This means a better signal than other transducer designs. The smooth TOCO transducer makes women feel more comfortable.

The rechargeable Lithium-ion battery can sustain 4 hours of continuous operation. This makes the F9 a true, portable unit.

Data from the F9 can also be automatically transferred to the MFM-CNS or Insight software to allow for storage or further analysis.



**12 CRYSTAL, WATERPROOF
TRANSDUCERS FOR FHR
DETECTION**



PROBE RACK

F9 Fetal Monitor Features

Communication

F9 provides abundant communication functions and interfaces.

MFM-CNS: An Ethernet interface is built into the monitor. Via Ethernet and data bus, the data collected by the monitor can be transferred to the MFM-CNS central monitoring system. The monitor can also connect to a wireless network module which will fulfil the data transfer between the monitor and the MFM-CNS.

Insight Software: Data can be transferred to a PC for display, analysis and storage.

Display

There are four options of colour for the F9 screen background; green, blue, black and orange. Details such as baseline, acceleration, deceleration, long term variability, short term variability of FHR can be shown clearly on any background.

The F9 offers the most advanced integrated monitoring for the mother and foetus. It is designed to be both portable or permanently mounted. It is incredibly versatile and can be used in any application.



Printer

Built in, long life, thermal array printer. The system will perform a self test before the system enters the monitoring screen. It is compatible with 150/152mm paper and supports US or international standard paper. For real time data, 1,2 or 3 cm/min recording speeds are selectable. In addition, it provides fast printing for stored traces with a high speed up to 25mm/sec.

Coaching function: when the recording paper runs out, the recorder stops printing. The data from this time on will be saved in the memory. It will resume printing when the paper is loaded.

External Monitoring

F9 offers non-invasive ultrasound, external TOCO facilities, measurements and automatic fetal movement.

DECG and IUP

Simultaneous monitoring of twins using two ultrasound channels or using one ultrasound channel and the DECG (during labour) channel. The range of DECG can be 30—240 bpm (American Standard) or 50—210 bpm (International Standard). Using IUP to detect the maternal intrauterine pressure, it will provide accurate data time and time again.

Vibrating Stimulator

Events can be displayed and recorded on CTG trends when connected with a fetal simulator by an audio cable.

Monitoring

With fetal external parameters (twins monitoring, external uterine contraction), fetal internal parameters (DCG, IUP), and maternal parameters (NIBP, ECG, TEMP, SpO2), the F9 can meet the needs of antepartum, intrapartum or postpartum.

Storage

24 hours waveforms storage and playback makes monitoring convenient.

SOV

Signal Overlap Verification: a smart design to reduce the risk of miss-collecting fetal heart signals and will alert when more than one heart rate signal comes from the same source.

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Technical Specifications

Dimensions & Weight

Dimensions: 347 (w) x 330 (l) x 126 mm (h)
Weight: 6 kg

Operating Environment

Temperature: 5—40°C
Humidity: 25—95 % (non condensing)
Power: 100—240 V, 50 / 60 Hz

Performance Specifications

Display: 12" Colour TFT-LCD
Resolution: 800 (H) x 600 (V)
Recorder: American standard / International standard 1/2/3 cm/min real Time printing speed. Fast print speed (stored traces) up to 25mm/sec
Paper: Z-fold, thermosensitive

Battery

Type: 14.8V rechargeable Lithium-ion
Continual Working Time: 4 hours

Ultrasound

Method: Ultrasound pulse Doppler with auto correlation
Pulse Repetition Rate: 2 KHz
Ultrasound Frequency: 1.0 MHz +/- 10%
FHR Range: 50—240 bpm
Resolution: 1 bpm
Accuracy: +/- 1 bpm

DECG Channel

Method: Peak—peak detection technique
FHR Range: 30—240 bpm (American standard)
50—210 bpm (International standard)
Resolution: 1 bpm
Accuracy: +/- 1 bpm
Input Impedance: >10M (Differential, DC 50/60Hz)
>20M (Common Mode)

TOCO

TOCO Range: 0—100%
Resolution: 1%
Zero Mode: Automatic / manual
Non-Linear: +/- 10%

IUP Channel

Pressure Range (IUP): 0—100 mmHg
Resolution: 1%
Zero Mode: Automatic / manual
Non-Linear: +/-1 mm Hg

Auto Fetal Movement (AFM)

Method: Pulsed Doppler ultrasound
Range: 0—100%
Resolution: 1%
Fetal Movement Marking: Manual

SPO2

Measuring Range: 0—100%
Resolution: 1%
Measuring Accuracy: 90—100% - +/- 2%
70—90% - 4%

PR

Measuring Range: 30—240 bpm
Accuracy: +/- 2 bpm

NIBP

Systolic Pressure: 50—240 mmHg
Mean Pressure: 25—200 mmHg
Diastolic Pressure: 15—180 mmHg
Resolution: 1 mmHg

Temperature

Range: 28—44°C
Accuracy: +/-2°C

