F9 Series Fetal & Maternal Monitor

■ Specification

Physical Characteristics

Dimensions: 347mm x 330mm x 126mm Weight: approximate 6 kg

Performance Specifications

Display: 12- inch color TFT-LCD Resolution: 800 (H) ×480 (V)

Recorder: 1/2/3/ cm/min real-time printing speed
Fast print speed (stored traces) up to 25mm/sec

Paper: 150/152 mm, Z-fold, thermosensitive American/International standard

Ultrasound

Technique: Ultrasound Pulse Doppler with autocorrelation Pulse repetition rate: 2 KHz

Ultrasound frequency: 1.0MHz±10% FHR measurement range: 50bpm – 240bpm Resolution: 1bpm

Accuracy: ±1 bpm

DECG

Technique: Peak – Peak detection technique DFHR measurement range: 30bpm – 240bpm

Resolution: 1 bpm Accuracy: ±1bpm

Input Impedance: > 10M (Differential)
Input Impedance: > 20M (Common Mode)

TOCO

TOCO measurement range: 0-100 Relative (%) Resolution: 1 count

Zero mode: Auto/Manual Non-linear error: 10%

IUP

Pressure measurement range: 0-100 mmHg

Resolution: 1%

Zero mode: Automatic / Manual Non-linear error: ±3mmHg

Auto Fetal Movement (AFM)

Technique: Pulsed Doppler ultrasound Measurement Range: 0-100 (%) Resolution: 1%

Marking

Manual fetal movement mark

ECG

ECG Waveform: Manual control ECG waveform display ECG falls off: Detect automatically

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Measurement Range: 30-240 bpm

Accuracy: ±2 bpm

SnO2

Measurement Range: 50%-100% Resolution: 1%

Accuracy: 90%-100%: ±2% 70% -90%: ±4% <70%: unspecified

PR

Measurement Range: 30-240 bpm Accuracy: ±2 bpm

NIBP (for adult)

Systolic pressure: 40mmHg-270mmHg Mean pressure: 10mmHg-215mmHg Diastolic pressure: 20mmHg-235mmHg Resolution: 1mmHg

Temperature (TEMP)

Measurement range: 0°C-50°C Accuracy: ±0.2°C

Battery

14.8 V rechargeable Lithium-ion battery Continual working time: 2-4 hours

Signal Interface

DB9 network interface, RJ45 interface

Configuration	F9	F9 Express
Dual-FHR	V	V
TOCO	√	V
FM	√	V
AFM	√	V
DECG/IUP	Opt	Opt
MECG	x	V
NIBP	x	V
MSPO ₂	x	√
TEMP	x	Opt
Fetal Stimulator	Opt	Opt
Lithium-ion Battery	Opt	Opt



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Features

Simple operation: Foldable screen, probe rack and wall mounting rack, handle for easy carrying, user-friendly GUI with 2 displaying modes and 4 color schemes

Powerful functions: 24 hours CTG storage, fast print for stored traces, Signals Overlap Verification alerts when two FHR probes process the heart rate signal from the same source

Outstanding performance: 12-inch color screen, excellent algorithm, 12-crystal and 1MHz water-proof transducer for accurate detection

F9 Series Fetal & Maternal Monitor



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12-inch high-resolution color LCD, folding up , touch-screen (optional)

F9 is a high-tech fetal & maternal monitor; it offers the most advanced integrated monitoring for the delivery room in big nospital; Private obstetrician's office; Antepartum clinic. F9 is designed for moving situation which covers the entire continuum of antepartum, intrapartum and postpartum applications.

F9 Integrates twin's fetal heart rate, uterine activity, fetal movement, intrauterine pressure, fetal direct ECG, Maternal NIBP, SpO2, and ECG, TEMP monitoring.

Our new 12-crystal waterproof ultrasound transducer provides broad beam pulsed wave, it makes signal better, and the smooth TOCO transducer makes the pregnant woman more comfortable.

Its rechargeable Lithium-ion battery can sustain 4-hour continuous working; this makes the characteristic of portable come true.

Data from F9 can be automatically transmitted to the MFM-CNS or Insight software.



Communication

F9 provides abundant communication functions and interfaces.

MFM-CNS: An Ethernet interface is built in the monitor. Via if and adia bus, the adata 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 fulfill the adia transference between the monitor and the MFM-CNS.

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



External Monitoring

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

DECG and IUP

Simultaneous monitoring of Wins using two ultrasound channels or using one ultrasound channel and the DEG-(during labor) channels: The range of DEGG can be 30bpm-240bpm (American Standard) or 50bpm-210bpm (International Standard): Using IUP to detect the material introuterine pressure, it will provide more occurried clark.

Vibrating stimulator

Event can be displayed and recorded on CTG trends when connected with a fetal stimulator by an audio



Monitoring

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

Storage

24 hours waveforms storage and playback makes monitoring convenient.

SOV

Signals Overlap Verification: a smart design to reduce the risk of miscollecting fetal heart signal and will alert when more than one heart rate stand come from the same source.

Displa

There are four options of color for FP screen background: green, blue, black and arange. Defails such as baseline, acceleration, deceleration, long-term variability, short-term variability of FHR can be shown whally on any background.

F9 offers the most advanced integrated monitoring for the mother and fetus, it is fallored to the needs of moving situation which covers the entire continuum of antepartum, intraportum and postpartum applications.

Printe

Built-in long life thermal array printer, the system will print a test baseline for ten seconds or so for self-testing before the system enters the monitary screen. It's compositible with 162/150mm paper and supports Americanlinternational standard paper. For real-time data, 11 2/3 cm/min recording speed are selectable. In addition, it provides fast printing for stored traces with a high speed up to 25mm/sec.

Caching function: when the record 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.