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Feature

- Folded 12.1inch TFT LCD high-brightness screen with a wide viewing angle and large numerics
- 12 elements / 1 MHz water proof pulse Doppler transducer for accurate detection
- Event marker for easy documentation of events and kick counts
- On-screen scrolling for viewing stored fetal traces
- Twin ultrasound monitoring capability
- Configurable audible and flashing fetal heart rate alarms
- Twin signal overlap alarm function
- Built-in high speed thermal printer, printing width can be set to 112mm,150mm and 210mm
- 24-hours memory for fetal traces
- Supporting TCP/IP or wireless connection to the central monitoring station
- Internal Li-ion battery power or AC power from external power supply

MCF-21 B

(Mars B)

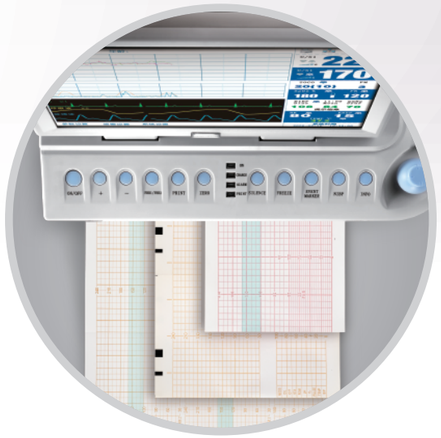
Fetal Monitor (CTG machine)

Description

MARS SERIES are high-tech fetal& maternal monitor, it offers a reliable, high-performance solution for fetal monitoring needs in doctors' practices, clinics and hospitals, from pre-natal check-ups to antepartum monitoring of high-risk pregnancies.

Built-in 210mm high speed thermal printer

(opção)



Printing width can be set to 112mm, 150mm, 210mm

Hidden handle, easy to move

Color coded transducer for easy recognition

Humanized probe frame design

MCF-21 B (Mars B)

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Physical Specifications

Dimension and Weight	Dimension	36cm (W)*30cm (D)*12cm (H)
	Weight	standard configuration: 4 kg
Operation Environment	Power requirements	AC100-240V , 50/60Hz
	Power	100VA
	Temperature	0-40°C
	Humidity	0-93% non-condensing

Fetal/Maternal Performance Specifications

Performance Specifications	Display	12.1 inch **(1024x768 pixel)color TFT-LCD**
	Indicator	Visual on-display and integrated, alarm light, audible alarm
	Battery	Internal rechargeable Li-ion battery power
	Alarm	Visual on-display and integrated, alarm light, audible alarm
	Memory	24-hours memory for fetal traces
	Printer	America standard/international standard
		Built-in thermal printer (110mm, 150mm, 210mm for option)
		1/2/3cm/min real-time printing speed, fast print speed (stored traces)
		Paper Z-fold, thermosensitive
		Record Message ID, name, age, date, time, print speed etc
	CMS	Support connecting to central monitoring station through LAN (TCP/IP) or wireless connection

Fetal/Maternal Technical Specifications

Ultrasound (FHR)	Measurement range	US	30 to 240 bpm
	Resolution	Display	1bpm
		Printer	1bpm
	jitter@200 bpm		≤3bpm
	Display update rate		0.25second
	Beat to bea change(max.) for ultrasound		28bpm
	US frequency		1MHz±5%Hz
TOCO	Measurement method		Strain gauge sensor element
	Sensitivity		1 unit =2.5g
	Resolution		1 unit
	Measurement range		500 units
	Baseline setting		0, 5,10, 15, 20 can be selective
	Update rate		0.25 second
	Auto offset correction		3 second after connecting the transducer
	Auto zero adjust		TOCO value is set to zero negative following a negative Measure value for 5 seconds
Auto Fetal Movement (AFM)	Technique		Pulsed doppler ultrasound
	Range		0-100%
	Resolution		1%
	Automatic fetal movement actograph		
	Manual fetal movement marker		
NIBP	Operation mode		Manual/automatic/ STAT
	Measurement unit		mmHg / kPa selectable
	Test interval		0-480 minutes
	Accuracy		Max.Std.deviation:8 mmHg(1.1kPa)
			Max. mean Error: ±5mmHg(±0.7kPa)
	Measurement range	Systolic	30 to 270 mmHg(4 to 36 kPa)
		Diastolic	10 to 245 mmHg(1.5 to 32kPa)
		Mean	20 to 255 mmHg(2.5 to 34kPa)
	Pulse rate range		20-250bpm
	Over-pressure protection		Yes
Maternal ECG (MECG)	Heart rate range		30~300bpm
	Resolution		1bpm
	Accuracy		±1bpm/ ±1%
	Leads		I, II, III, avL, avR, avF, V
	Sweep speed		12.5mm/s, 25mm/s, 50mm/s
	Gain selection		x 0.25, x0.5 ,x1, x2
	Operation mode		diagnostic, monitor, surgery
Maternal SpO2 (MSpO2)	Measurement range		0%-100%
	Resolution		1%
	Accuracy		±2%
	Pulse rate range accuracy		±3bpm
Temperature (TEMP)	Technique		Thermistor probe CYSI 400 series compatible
	Measurement range		0°C-50°C
	Accuracy		±0.1°C

Configuration

Feature	Fetal parameter							Maternal parameter	Printer width			Auxiliary device	
Table legend: ● Standard ○ Optional – Unavailable	Single FHR	Dual FHR	TOCO	FM	AFM	FMP	Signal Overlap Alarm	ECG, NIBP, SpO2, HR, TEMP, RESP	110 mm	150mm	210mm	Lithium battery Network (TCP/IP) VGA	Fetal Stimulator Trolley Wall mount Waterproof probe
Mars B (I)	●	–	●	●	●	●	–	–	●	○	○	●	○
Mars B (II)	●	●	●	●	●	●	●	–	○	●	○	●	○
Mars B (III)	●	–	●	●	●	●	–	●	●	○	○	●	○
Mars B (IV)	●	●	●	●	●	●	●	●	○	●	○	●	○

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ISO9001 ISO13485 SFDA CE 0482

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