

WANROOE Care For You



MCF-21K

(Mars K Series)

Fetal & Maternal Monitor (10.4 inches)



MCF-21K

(Mars K)
Fetal Monitor (CTG machine)

Products

Unicare MARS K SERIES are high-tech fetal & maternal monitor, it offers a reliable, high-performance solution for fetal monitoring needs in the clinic and hospital, from pre-natal check-ups to antepartum monitoring of high-risk pregnancies. Mars K Series is your best partner from Antepartum through Intrapartum till Delivery



12-Crystal 1 MHZ waterproof transducer

Features:

- Folded 10.4 inches TFT LCD high-brightness screen
- 12-crystal waterproof pulse Doppler transducer (optional), providing wider beam area and more homogeneous signal, thus realizing better performance for bedside monitors than conventional transducers.
- Event Marker makes it easy to annotate perceived fetal movements (FM), or other events on the strip chart.
- Fetal Movement Profile(FMP) detects and automatically records gross fetal body movements.
- Heart rate offset mode makes it easy to visually distinguish between the heart rates of twins by allowing you to offset the secondary FHR \pm 30BPM.
- Heartbeat Coincidence recognition provides visual and audible indication when it detects synchronous fetal or maternal heart-rate signals, indicating that you may be monitoring a duplicate signal.
- Fetal heart rate alarm provides both audible and visual alerts if the heart rate is outside of the user-defined high/low range.
- Easy-to-load Z-fold paper stacks itself neatly upon exiting the recorder, facilitating easy storage.
- Internal Li-on battery power or AC power from external power supply.
- Supporting TCP/IP or wireless connection to the central monitoring station
- NST Report (Fetus health report)

Fetal Acoustic Stimulator(FASt)

The optional Fetal Acoustic Stimulator uses low frequency vibro-acoustic stimuli(VAS) to "wake" the fetus, increasing the efficiency of antepartum testing and improving retest consistency. VAS indicated with a musical



MCF-21K

(Mars K)
Fetal Monitor (CTG machine)



Interface



Clinic Diagram



- Heart rate offset mode provides an easy visual distinction between two heart rates by allowing you to offset the secondary FHR \pm 30BPM.
- FHR 1
- FHR 2
- Event Marker makes it easy to annotate perceived fetal movements or other events on the strip chart.
- TOCO diagram
- Manual Fetal Movement Marker for simple annotation of maternal-perceived fetal movements.

Specification

| Physical Specifications | | | | |
|---|--|---|------------------------------|--|
| Dimension and Weight | Dimension | 32cm (W)*26cm (D)*8cm (H) | | |
| | Weight | standard configuration: 2.8 kg | | |
| Operation Environment | Power requirements | AC100-240V , 50/60Hz | | |
| | Power | 50VA | | |
| | Temperature | 0-40℃ | | |
| | Humidity | 0-93% non-condensing | | |
| Fetal/Maternal Performance Specifications | | | | |
| Performance Specifications | Display | 10.4 inches (1024×768 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 150 groups patient data | | |
| | Printer | America standard/international standard Built-in thermal printer (paper width:110mm) 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 | | | |
| Maternal NIBP(MNIBP) | 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 SpO2 (MSpO2) | Measurement range | 0%-100% | | |
| | Resolution | 1% | | |
| | Accuracy | ±2% | | |
| | Pulse rate range accuracy | ±3bpm | | |

Configuration

| Feature | Single | Dual | TOCO | FM | AFM | Signal | MSpO ₂ | MNIBP | Lithium | Network | Printer | Fetal | Trolley | Bag | Waterproof |
|---------------|--------|------|------|----|-----|---------|-------------------|-------|---------|----------|---------|----------|---------|-----|------------|
| Legend | FHR | FHR | | | | Overlap | | | Battery | (TCP/IP) | paper | Acoustic | | | Probe |
| ○ Standard | | | | | | | | | | | | | | | |
| ● Optional | | | | | | | | | | | | | | | |
| — Unavailable | | | | | | | | | | | | | | | |
| width (110mm) | | | | | | | | | | | | | | | |
| Configur.A | ● | — | ● | ● | ● | — | — | — | ● | ● | ● | ○ | ○ | ○ | ○ |
| Configur.B | ● | ● | ● | ● | ● | ● | — | — | ● | ● | ● | ○ | ○ | ○ | ○ |
| Configur.C | ● | — | ● | ● | ● | — | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ |
| Configur.D | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ |

Distributor: