

ECOtwin LCD ECOtwin LCD

Modernized user-friendly antepartum fetal monitor



Compact and portable twin fetal monitor

The ECOtwin fetal monitors of medical ECONET securely accompany women through all stages of their pregnancy.

The ECOtwin is a microprocessor-based Fetal Monitor, providing continuous monitoring, display, and recording of fetal heart rate (FHR) and uterine contraction (UC) for antepartum testing and monitoring. Both combinations indicate the well-being of the fetus.

The monitored data can be recorded continuously or intermittently on a strip chart recorder at the operator's discretion. The recorded information includes graphic trend data and text information of monitor hardware and software configuration, date and time, patient identification, changes to operational settings, clinician, and patient event marks.

This devices are for use only by trained medical personnel located in hospitals, clinics, doctor's offices, and in the patient's home.

Features and Benefits

- High resolution 7" Color LCD Display (800 x 480) rotatable by 270° (ECOtwin LCD)
- 7 segment LED display (ECOtwin LED)
- 9 crystal US-probes with 0,985 MHz frequency
- Waterproof IPX8 (US & UC)
- Integrated Li-lon battery
- Monitoring of fetal movement
- Two USB ports for data storage
- LAN port for data transmission
- Thermal array recorder
- Support dual doppler for twins
- Cardiotocography (CTG) Analysis
- Short Term Variability (STV) Analysis
- CCV (Cross-Channel Verification)
 Function
- Available with mobile cart (option)
- 450 hours patient data saving (ECOtwin LCD)
- Compact-sized and lightweight
- Including probes, event marker,
 CTG-belts, ultrasound gel and paper
- Multiple language support
- Central monitoring software
 Up to 8 fetal monitors connections available
- Networkable with PC (RS-232C or optional Bluetooth)

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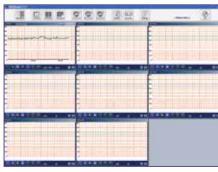


The Main Function of ECOtwin Fetal Monitor

Usually, during pregnancy women regularly counts their baby's movements to make sure it's alright and spend a lot of time and energy worrying about its well-being. The ECOtwin is a Prenatal Monitoring System for non-invasively measuring and showing graphically maternal abdominal contractions and the fetal heart rate through a display on a non-permanent graphical display and a strip chart recorder. This data is intended to aid in assessing the well being of the fetus during the final trimester of pregnancy (Non-Stress Test).







CTG Analysis

Printed paper

Central monitoring

Precise and reliable Analysis

- CTG Analysis calculates important data such as baseline, acceleration, deceleration, fetal movement.
- Cross-channel verification (CCV) prevents signal ambiguity from maternal heart rate.
- Short term variability (STV) is used to measure the cardiac autonomic control.
- Doppler probe has 9-crystal with 0,985 MHz frequency

High performance and Multi function

- ECOtwin LCD can save trend data for 450 hours.
- Recorded paper reports CTG analysis, FHR signal trend, UC trend, and Fetal movement.
- Central monitoring software allows a real-time remote viewing of CTGs with automatic archiving of up to 8 patients at the same time.
- It has IPX8 waterproof probes. It withstands 1 meter of water for over 40 minutes.

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Specifications

Dimension	
Size:	326 (W) x 276 (D) x 96 (H) mm

Weight: Approx. 5.5 kg

Display

ECOtwin LCD: 7" wide TFT color LCD **ECOtwin LED:** 7 segment LED

Indicator: Heart rhythm, Printing state,

Alarm on / off state LED

Ultrasound

Type: Multicrystal transducer with 9 elements

Mode: Pulsed doppler 0.985 MHz Frequency: < 10 mW/cm² Intensity: 30 bpm to 240 bpm FHR range: FHR accuracy: ±2% of range

Waterproof: IPX8

UC (Uterine Contraction)

Input source: External type

Control: Reference (Zero) control

0 ~ 99 Measurement range: IPX 8 Waterproof:

FM (Fetal Movement)

Ultrasound Detection method: **Dual FM** Type:

CTG Analysis

Result: Baseline, OSC. Amp., OSC Num.

Acceleration, Deceleration (early, late, variable)

Movement

Short-Term VAR (min, max, mean)

Printer

Type: Thermal array Z-fold type

Paper width: 150 mm

Record speed: 10, 20, 30 mm / min Auto record period: Off, 10, 20, 30, 40, 50, 60 min Set-up

list: Alarms upper / lower value Time & Date

> Print contrast 1, 2, 3 Print speed FHR volume level

CCV (Cross-Channel Verification)

Function

list: Mark function

UC reference

Zoom in particular response

Signal Interface

Connectors: 2 USB connector

> LAN RS-232

Power

Requirements: 100 - 240 VAC, 50 / 60 Hz

Output: DC +18 V 2.8A

Battery: Rechargeable, 14.8 V Li-lon

Environment Specifications

Temperature range: Operating: 10 °C to 45 °C

Storage: -20 °C to 60 °C Operating: 5% to 85%

Relative humidity range:

Storage: -20% to 95%

Accessory

 Standard Ultrasound probe

Toco probe CTG straps Event marker

Z-fold paper / HP paper

Ultrasound gel Rechargeable battery

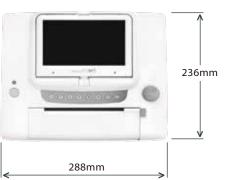
 Optional Nylon carrying bag

Mobile cart

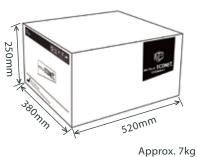
Right side



Top



Packaging



Accessory Information



Ultrasound ProbeStandard accessory



Toco Probe Standard accessory



CTG straps
3pcs / pack
Standard accessory



Event MarkerStandard accessory



Z-fold Paper
15 cm x 9 cm (scale: 30 - 240 bpm)
Standard accessory



HP Paper

15 cm x 9 cm (scale: 30 - 210 bpm)

Standard accessory



Ultrasound Gel 250 ml Standard accessory



Nylon Carrying BagOptional accessory



Rechargeable Battery
Standard accessory



Mobile CartOptional accessory

ver. 001

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