

Specification: C 22

The logo features the word "COMEN" in a large, bold, 3D-style font. The letters are white with a blue gradient and a shadow effect. Above the main text, there is a decorative graphic consisting of smaller, semi-transparent "COMEN" text arranged in a curved, cloud-like shape. The background is a solid blue color with a subtle gradient and a faint globe-like shape at the bottom.

COMEN Share with the world

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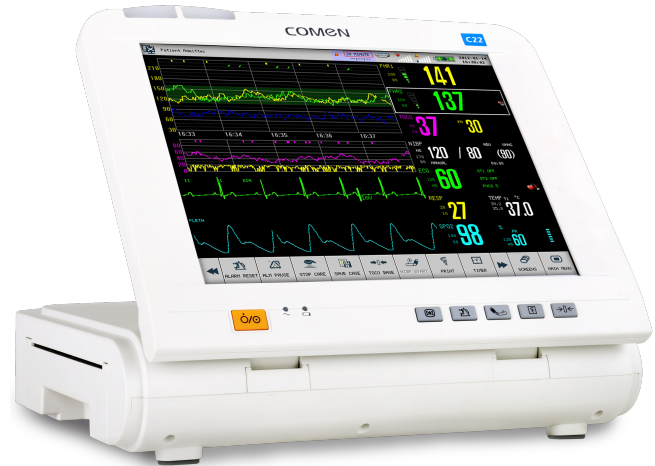
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Fetal Monitor

C 22



Standard Configuration

FHR1, TOCO, FM, Recorder, 3/5-lead ECG, NIBP, Resp, HR, Temp (Single Channel), Comen SpO2

Optional Configuration

12-lead ECG, Fetal Stimulator, FHR2, Nellcor/ Masimo SpO2, Trolley

Safety Standards

ISO 13485:2003 approved, CE marking according to MDD93/42/EEC

Physical Characteristics

Product Size: 340mm*270mm*95mm

Net Weight: 5.5kg

Operation Environment

Working

Temperature: 5-40°C

Humidity: 93%

Power Supply: 100-240V~, 50/60Hz±1Hz

Battery Type: Rechargeable & Lithium-ion battery

Battery Capacity: 4400mAh

Battery Recharging

Time: Maximum 5.5 hours for charging;

Battery backup: 5 hours for continuous working

Display: 12.1" color TFT touch screen

Resolution: 800*600

Trace: 6 Waveforms (Max)

Indicator

Two Alarm indicators

Power indicator

Battery indicator

QRS beep and alarm sound & FHR

Sound

Operating key sound

Interface

Parameter cable interface

AC power input socket

Two USB port

RJ45 port

Data storage

Alarm Event Review: 300 groups

Full Disclosure 120 mins

Waveform Review:

NIBP Review: 2000 groups

Trend Table: 120 hours

Freeze Review 240s waveform review (Maternal);
60 hours waveform review (Fetal)

Power-off storage: Yes

Alarm: User-adjustable High and Low 3-level Limits;

Prioritized audible and visual alarm

Network: Connected to Central Monitoring System by hardwire/wireless

Recorder

Type: Built-in; thermal array

Channel: 6 channel waveforms

Mode Fast, real time

Speed: 1/2/3cm/min selectable,
25mm/s(review)

Record width: 150mm

Ultrasound

Technique: Ultrasound Pulse Doppler

Pulse Repetition

Rate: 1.32KHz

Ultrasound

Frequency: 1.0MHz ±1%

FHR Measurement

Range: 30bpm ~ 250bpm

Resolution:	1bpm		isolation;
Accuracy:	±1 bpm		Against electrosurgical interference and defibrillation;
Alarm Measurement			
Range:	31bpm ~ 249bpm	Accuracy:	±1% or ±1bpm (whichever is greater)
Alarm time:	≤30s	Bandwidth:	MON Mode:0.5 Hz ~ 40 Hz
Alarm Accuracy:	±1 bpm		OPE Mode:1 Hz ~ 20 Hz
Iob:	<5mW/cm ²		
TOCO		NIBP	
TOCO Range:	0-100%	Method	Automatic Oscillometric
Resolution:	1%	Work mode:	Manual / Automatic/Continuous
Zero Mode	Auto/Manual	Measurement time:	Adjustable(1-480min)
Non-linear error:	±8%	Maximum	
Auto Fetal Movement (AFM)		measurement time	Adu/Ped: 120s; Neo: 85s
Technique:	Ultrasound Pulse Doppler	Measurement Unit:	mmHg / kPa selectable
Range:	10-80 (%)	Measurement types:	Systolic, Diastolic, Mean
Resolution:	10%	Range of systolic	
Marking		pressure:	Adult Mode:40-270mmHg
Mark Mode:	Auto/Manual fetal movement mark	Range of diastolic	Pediatric Mode:40-200mmHg
Respiration		pressure:	Adult Mode:10-215mmHg
Method:	RA-LL Impedance Method	Range of mean	Pediatric Mode:10-150mmHg
RR measurement		pressure:	Adult Mode:20-235mmHg
range:	Adult: 6-120rpm Pediatric/Neonate:6-150rpm	Over-pressure	Pediatric Mode:20-165mmHg
Accuracy:	7~150rpm, ±1rpm or 1%, whichever is greater; 0-6rpm unspecified	protection:	Both hardware and software over pressure protection
Resolution:	±1 rpm	Accuracy:	±3mmHg
RESP Apnea	10s-60s	Resolution:	1mmHg
Alarm:	Audible and visual alarm; alarm events reviewable	Alarm:	Systolic, Diastolic, Mean
Sweep Speed:	6.25,12.5,25mm/s	Nellcor SpO₂	
Gain Selection:	X0.25, X0.5, X1, X2,	Measurement range	0-100%
ECG		Resolution:	1%
Lead Type:	CardioTec™3-leads ECG Analysis, 5-Lead and 12-leads selectable	Accuracy:	±2% (70-100%, Adu/Ped, non-motion) ±3% (70-100%, Neo, non-motion)
Lead selection	12-Lead I; II; III; aVR; aVL; aVF; V1-V6. 5-lead: I; II; III; aVR; aVL; aVF; V 3-lead: I; II; III	Alarm range:	1-69% unspecified
Gain Selection	X0.25, X0.5, X1, X2, Auto	PR Measurement	
Sweep Speed:	6.25,12.5, 25, 50mm/s	Range:	20-300bpm
Heart Rate Range:	Adult: 15-300bpm Pediatric/Neonate:15-350bpm	Resolution:	1bpm
Resolution:	1 bpm	Accuracy:	±3bpm (20-250bpm); Unspecified (251-300bpm)
Protection:	Withstand 4000VAC/50Hz voltage in	Alarm Range:	20-300bpm
		Masimo SpO₂	

Measurement &
alarm range 1~100%
Resolution: 1%
Accuracy: ±2% (70-100%, Adu/Ped,
non-motion)
±3% (70-100%, Neo, non-motion)
1-69% unspecified

PR Measurement
Range: 25~240bpm
Resolution 1bpm
Accuracy: ±3bpm(non-motion)
±5bpm(motion)
Alarm Range: 20-300bpm
PI value: 0.02~20%
Resolution: 0.01% (0.02%~9.99%)
0.1% (10.0%~20.0%)
Accuracy: unspecified

Comen SpO₂
Measurement
& alarm range 0~100%
Resolution: 1%
Accuracy: ±2% (70~100%, Adu/Ped,

non-motion)
±3% (70-100%, Neo, non-motion)
Unspecified (0-69%)

PR measure
Range: 20-254bpm
Resolution: 1bpm
Accuracy: ±1bpm
Alarm Range: 20-300bpm

Temperature

Measurement &
alarm range: 0-50°C
Sensor: Skin/rectal TEMP sensor
Resolution: 0.1°C
Accuracy: ±0.1°C (exclusive of error of sensor)

***Notice: Specifications subject to changes without prior notice. All rights reserved by Comen**