



[www.epsimed.com](http://www.epsimed.com)

EPSIMED LLC  
 12930 SW 128TH ST #102, Miami, FL 33186 USA  
 isales@epsimed.com  
 Phone +1 786 429 1827  
 Mobile +1 786 238 5965



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# MONITOR MN - 150

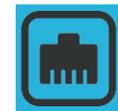
Multiparameter patient monitor





## MN-150 Patient Monitor

The EPSIMED MN-150 patient monitor has abundant functions that can be used for clinical monitoring of: adult, pediatric, and neonatal patients. Users can select different parameter settings according to different requirements. The monitor can be power supplied by voltages of 100-240V~, 50/60Hz. It has a 15-inch color TFT high-resolution screen (touch option is available) that shows the date and waveforms in real time. It can synchronously display from nine to thirteen waveforms and monitor full parameters. The MN-150 patient monitor is equipped with an optional three-channel thermal printer.



The monitor can be connected with a centralized monitoring system via network cable and exchange information under HL7 communication protocol.



The EPSIMED MN-150 patient monitor allows user to view parameters such as ECG, RESP, NIBP, SpO2 and dual-channel TEMP. With options available for 2-IBP, EtCO2, Nellcor SpO2, SunTech NIBP, 12-lead ECG, Cardiac Output, CSM (Cerebral State Monitoring). Touch screen, Multi-Gas Monitoring.

*Lightweight, compact and portable*

High resolution  
15" TFT display

# Functions

Standard parameters : ECG, RESP, SpO2, PR, NIBP, TEMP double channel

## ECG HEART RATE (HR)

- ECG waveform
- Arrhythmia and ST-segment analysis

## NIBP SYSTOLIC PRESSURE(SYS), DIASTOLIC, PRESSURE(DIA), MEAN PRESSURE(MEAN)

TEMP TI, T2, TD

## RESP RESPIRATION RATE (RR)

- Respiration waveform

## IBP (OPTIONAL) CHI:SYS, DIA, MAP

- CHI:SYS, DIA, MAP
- CH2:SYS, DIA, MAP

## SPO2 OXYGEN SATURATION (SPO2)

- Plethysmogram(PLETH) waveform
- Pulse rate (PR)
- Bar graph

## CO2(OPTIONAL) ETCO2

- InsCO2: Inspired Minimum CO2
- AwRR: : Air Way Respiration

It has abundant functions, such as audible and visual alarm, trend data storage and output, NIBP measurement, alarm event marking and drug concentration calculation, etc.



## Optional

- 2-IBP, EtCO2,
- Nellcor SpO2,
- SunTech NIBP,
- 12-lead ECG,
- Touch Screen
- Cardiac Output
- CSI (Cerebral State Monitoring )
- Multi-Gas Monitoring

User may select different parameter configuration according to different requirements

## Standard Configuration



# Technical Specifications

## ECG

Input dynamic range:	±(0.5mVp~5mVp)
Differential input impedance:	≥10MΩ
Band width:	0.05~150Hz (Diagnostic) 0.5~40Hz (Monitoring) 1~20Hz (Operation)
CMRR:	≥90dB (Diagnostic) ≥105dB (Monitoring & Operation)
Sensitivity selection:	x1/4, x1/2, x1, x2, x4 y Auto
Sweeping speed:	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
HR measuring range:	15~350bpm
HR accuracy:	±1% or ±2bpm, whichever is greater
Pacemaker pulse detection and rejection function	

## RESP

Measuring range:	0~120rpm
Measuring accuracy:	±5% or ±2 rpm, whichever is greater

## NIBP

Technique:	Oscillometric method	
Typical measuring time:	<30 seconds (Adult cuff)	
NIBP measuring range:	SYS: 40~275 mmHg (Adult) 40~200 mmHg (Pediatric) 40~135 mmHg (Neonate)	
NIBP measuring range:	DIA: 10~210 mmHg (Adult) 10~150 mmHg (Pediatric) 10~95 mmHg (Neonate)	
NIBP measuring range:	MAP: 20~230 mmHg (Adult) 10~165 mmHg (Pediatric) 10~110 mmHg (Neonate)	
NIBP Measurement accuracy:	Mean Difference:	±5mmHg
	Standard Deviation:	8mmHg
NIBP measuring NIBP:	Manual, Auto, STAT, Multi-cycle mode	
Auto measuring intervals:	1-480 min	

## SPO2

Technique:	Dual-wavelength optical method
Measuring Range:	0%-100%
Accuracy Measuring:	Arm is not greater 2% for SpO2 range 70~100%
PR measuring range:	30~250bpm
PR measuring accuracy:	±2bpm or ±2%, whichever greater
Low perfusion performance:	As low as 0.3%

## CO2

Technique:	Infrared optical method
Sampling mode:	Sidestream or Mainstream
Measuring range :	0~150mmHg
Measuring accuracy:	0~40mmHg ±2mmHg 41~70mmHg ±5% of reading 71~100mmHg ±8% of reading 101~150mmHg ±10% of reading
Tasa de flujo:	50ml/min ±10 ml/min (Sidestream)

## IBP

Technique:	Strain gauge transducer
Input sensitivity:	5µV/V/mmHg
Measuring range:	0~150mmHg
Measuring Accuracy:	±2% or ±4mmHg, whichever is greater
Measuring positions:	ART, RAP, PA, LAP, CVP, ICP, AUXP1, AUXP2
Calibration:	Zero Calibrating

## TEMP

Measuring Range :	21.0~50.0 °C
Measuring accuracy:	±0.2°C desde 25~45°C

## Cerebral State Monitoring (CSM)

EEG Sensitivity:	±400µV
Noise level:	µVp-p, <0.4µV rms (1~250Hz)
CMRR:	>140dB
Input impedance :	>50Mohm
CSI and update:	0~100. filtro: 6~42Hz, 1 sec. update
EMG%:	0~100 (logarithmic) filter: 75~85 Hz, 1 sec. update.
BS%:	0~100. filter: 2~42 Hz, 1 sec. update

## Cardiac Output (C.O.)

Blood temperature measuring range:	23~43°C, accuracy: ±0.5°C
Injecta temperature Measuring Range:	0~20°C, accuracy: ±0.5°C
Measuring range :	0.2~20 L/min
Measuring accuracy :	±0.2 L/min or ±10%, whichever is greater

## OTHER SPECIFICATIONS

Power supply:	AC 100V~240V, 50/60Hz, 60VA
Built-in lithium battery:	11.1V/4400mAh
Display:	15 inch TFT display
Alarming method:	3 levels audible-visible alarm
Networking:	Ethernet

## Standard Configuration

ECG, Respiration, SpO2, PR, NIBP, Temperature

## Options

Touch Screen, 2-IBP, EtCO2, Nellcor SpO2, SunTech NIBP, 12-lead ECG, Cerebral State Monitoring, (CSM), Cardiac Output, Central Monitoring Station, Multi-Gas Monitoring



# Standard Accessories



A

\*One pack of five leads ECG cable



B

One pack of ten piece of electrodes



C

\*One adult SPO2 finger clip sensor with cable



D

One extension Cuff cable



E

One adult Cuff



F

\*One temperature probe



G

One power cable



H

User Manual



Used for adults, pediatrics and neonates

## PHYSICAL CHARACTERISTICS

Dimensions:  
357 mm(L) × 178 mm(W)  
× 334 mm(H)  
Weight 5.7 Kg

\*Referencial Picture