



CO+LINN

Patient Monitor Magnolia 12 Monitor Everyone

NIBP, ECG, NellCor SpO₂ Sensor, IBP, CO₂,
Draeger Multi-Gas, Phasein Multi-Gas, Thermal Record, CMS
284mm(H)X316mm(L)X145mm(W)

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MAGNOLIA 12



Model	Magnolia 12	
Display Size	12.1-inch	
Touch Screen	✓	
ECG(3,5)	✓	
ECG(12)	Optional	
RESP	✓	
SpO2(COLIN)	✓	
NBP(COLIN)	✓	
TEMP(2)	✓	
CO ₂	Optional	
Recorder	Optional	
Battery/2500mA	✓	
Battery/5000mA	Optional	
IBP(4-Channel)	Optional	
C.O.	Optional	
AG	Optional	
Interface	1&2 Multi-function	✓
	Network	✓
	USB(2)	✓
	Video	✓
	SD Card	✓

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MAGNOLIA 12



ECG

- Lead Type :
3 Leads : I, II, III
5 Leads : I, II, III, aVR, aVL, aVF, V
12 Leads : I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
- Gain : 2.5mm/mV, 5mm/mV, 10mm/mV, 20mm/mV, Auto
- HR Range : 15bpm ~ 300bpm (ADU)
15bpm ~ 350bpm (PED, NEO)
- HR Accuracy : $\pm 1\%$ or ± 1 bpm (whichever is greater)
- Resolution : 1 bpm
- Bandwidth (-3dB) : Diagnosis : 0.05Hz to 150Hz
Monitor : 0.5Hz to 40Hz
Surgery : 1Hz to 20Hz
- Waveform Speed : 12.5mm/s, 25mm/s, 50mm/s
- ST Range : -2.0 mV ~ +2.0 mV
- ST Accuracy : -0.8 mV ~ +0.8 mV : ± 0.02 mV or 10% (whichever is greater)

SPO₂

- SPO₂ Range : 0 ~ 100 %
- SPO₂ Resolution : 1 %
- SPO₂ Accuracy :
Adult (including Pediatric) : 2 % (70%~100% SpO₂)
Undefined (0~69% SpO₂)
Neonate : 3 % (70%~100% SpO₂)
Undefined (0~69% SpO₂)
- PR Range : 25bpm ~ 300bpm
- PR Resolution : 1bpm
- PR Accuracy : 2bpm

NBP

- Work Mode : Manual, Auto, Continuous
- Measurement Range :
Adult mode : SYS : 40 mmHg ~ 270 mmHg
DIA : 10 mmHg ~ 215 mmHg
MAP : 20 mmHg ~ 235 mmHg
Pediatric mode : SYS : 40 mmHg ~ 200 mmHg
DIA : 10 mmHg ~ 150 mmHg
MAP : 20 mmHg ~ 165 mmHg
Neonatal mode : SYS : 40 mmHg ~ 135 mmHg
DIA : 10 mmHg ~ 100 mmHg
MAP : 20 mmHg ~ 110 mmHg
- Pressure Resolution : 1mmHg
- Maximum Mean Error : ± 5 mmHg
- Maximum Standard Deviation : 8mmHg

IBP

- Measurement Range :
Art : 0 to 300 mmHg
PA : -6 to +120mmHg
CVP/RAP/LAP/ICP : -10 to +40 mmHg
P1/P2 : -50 to +300 mmHg
- Resolution : 1 mmHg
- Accuracy (without sensor) : ± 2 % or 1 mmHg, whichever is greater

CO₂

- Measuring Range :
EtCO₂ : 0 mmHg ~ 150 mmHg
FICO₂ : 3 mmHg ~ 50 mmHg
AwRR : 2 rpm ~ 150 rpm(sidestream)
0 rpm ~ 150 rpm(mainstream)
- Resolution :
EtCO₂ : 1 mmHg
FICO₂ : 1 mmHg
AwRR : 1 rpm(sidestream)
- EtCO₂ Accuracy : ± 2 mmHg, 0 to 40 mmHg
 ± 5 % of reading, 41 to 70 mmHg
 ± 8 % of reading, 71 to 100 mmHg
 ± 10 % of reading, 101 to 150 mmHg
 ± 12 % of reading, RESP measurement
value exceeds 80rpm(sidestream)
- AwRR Accuracy : ± 1 rpm

AG

- O₂ :
Range : (0 to 100) Vol% Accuracy : $\pm(2.5$ Vol% + 2.5 % rel.)
- CO₂ :
Range : (0 to 13.6) Vol% Accuracy : $\pm(0.43$ Vol% + 8% rel.)
- N₂O :
Range : (0 to 100) Vol% Accuracy : $\pm(2$ Vol% + 8% rel.)
- Anesthetic Gases Range :
Halothane : (0 to 8.5) Vol% Isoflurane : (0 to 8.5) Vol%
Enflurane : (0 to 10) Vol% Sevoflurane : (0 to 10) Vol%
Desflurane : (0 to 20) Vol% Accuracy : $\pm(0.2$ Vol% + 15 % rel.)

RESP

- RR Measuring Range :
Adult : 0 to 120 rpm
Neo/Ped : 0 to 150 rpm
- Resolution : 1 rpm
- Accuracy : 2 rpm

TEMP

- Channel: 2
- Measuring Range: 0°C ~ 50°C
- Resolution: 0.1°C
- Accuracy (Without sensor): 0.1°C

C.O.

- Measurement Range :
C.O. : 0.1 L/min ~ 20L/min
TB : 23°C ~ 43°C TI : -1°C ~ 27°C
- Resolution :
C.O. : 0.1L/min
TB, TI : ± 0.1 °C
- Accuracy :
C.O. : $\pm 5\%$ or 0.2 L/min, whichever is greater
TB : ± 0.1 °C(without sensor) TI : ± 0.1 °C(without sensor)