MEDIANA

M30

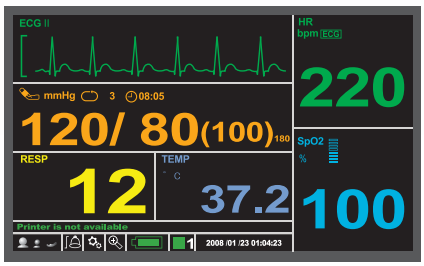
MULTI-PARAMETER PATIENT MONITOR

Compact, Portable & Multi functional purpose

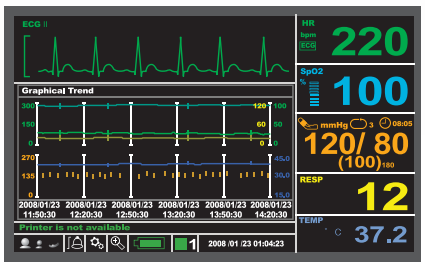
Compact &

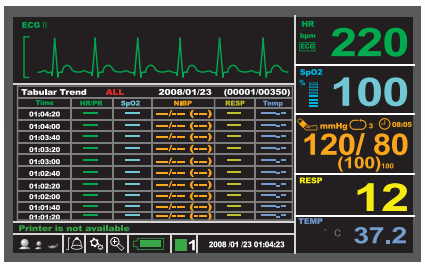
M30

Various display modes and powerful trend function



Big number display enables you to see the vital signs clearly under any circumstances





96 hours of graphical and tabular trend enables you to review comprehensive stored data (Saved at 20 seconds intervals)

M30 MULTI-PARAMETER PATIENT MONITOR

- Compact and Major parameter monitor for portable environment with ECG/Resp, NIBP, SpO_2, 1ch Temp, Main or Side stream $EtCO_2$ (Option)
- 8.5" TFT LCD display with 3 traces
- ECG : Arrhythmia, S-T segment detection
- 96 hours of graphical and tabular trend with 20 sec recording time interval
- Large number display available for all parameters
- Various rechargeable battery options of Li-ion Battery
- External 12V DC input available
- Ergonomic handle design for portable grip & patient bedrail installation
- MEDIANA or Nellcor OXIMAX SpO_2 technology
- USB port for S/W update and Trend download

Multi-functional purpose

Easy-to-use hardware & design

Easy detachable battery options enable you to select 3 different capacities of Li-ion battery of up to 2, 4, or 6 hours of operation

2, 4, or 6 hours of rechargeable Li-ion battery options

M30 TECHNICAL SPECIFICATIONS

Physical Characteristics and Printer

Dimension & Weight	250 x 210 x 170mm (W x H x D), Approx. 3.2kg 3kg with standard included
Printer (Optional)	50mm thermal printer with 2channels
Paper speed	25.0 mm/s and 50.0 mm/s
Display	8.5" TFT LCD / resolution 800 X 480 pixel 3 with waveforms

Electrical

Power Requirements	AC Mains - 100 to 240V~, 50/60 Hz, 110 VA DC Mains -14Vdc, 3.5A with DC/DC adapter specified as a part of the monitor
Battery	Li-ion battery 1 hour (23.76 Wh), 3 hours (47.52 Wh), 5 hours (71.28 Wh)

ECG

Measurement Range	0, 20 to 300 BPM
Accuracy	±1 BPM or ±1% whichever is greate
Average Response Time	3 seconds (from 80 to120 BPM) 4 seconds (from 80 to 40 BPM)
Leads	3 / 5 Lead Lead I, II, III, aVR, aVL, aVF, V (Chest Lead)
Lead Off Detection	Detected and displayed
Display Sweep Speeds	12.5 mm/sec, 25.0 mm/sec, and 50.0 mm/sec

Respiration rate

Method	RA to LA Impedance
Range	0, 3 to 120 breaths/min
Accuracy	±3 breaths/min
Display Sweep Speeds	6.25mm/s, 12.5mm/s, 25.0mm/s

SpO2

Pulse RateRange	Nellcor module: 20 to 300 BPM Mediana module : 30 to 300 BPM
Pulse RateAccuracy	Nellcor module: 20 to 250 beats per minute (bpm) ±3 digits Mediana module: ±2% or 2BPM, whichever is greater
Range	Nellcor module: 1 to 100 % Mediana module: 0 to 99 %
Low Perfusion (Nellcor module only)	0.03 to 20 %
Accuracy	Nellcor module: Without Interference-Adult/Pediatric 70 to 100 % ±2 digits 1 to 69 % unspecified Without Interference-Neonatal 70 to 100 % ±3 digits 1 to 69 % unspecified Low Perfusion 70 to 100 % ±2 digits 1 to 69 % unspecified Mediana module: Adult/Pediatric/Neonatal 70 to 99 % ±2 digits
Display Sweep Speeds	12.5 mm/sec, 25.0 mm/sec and 50.0 mm/sec
Defibrillator Protection	Protected

Temperature

Probe Type	Skin or Rectal probes are optional
No. of Channel	1 channel
Range	0°C to 50°C / 32°F to 122°F selectable

Trends

Types	Graphical and Tabular
Memory	up to 96 hours (Interval 20 second)
Display interval	20sec, 1min, 2min, 3min, 5min, 10min
Standard Configuration	ECG/Resp, Spo2(MEDIANA), NIBP, Temp (only parameter)
Trend store data	EtCO2, InCO2

NIBP

Pulse Rate Range	Omron module : Adult/Pediatric 40 to 200 BPM Neonatal 40 to 240 BPM AND module: Adult/Pediatric/Neonatal 30 to 240 BPM
Pulse Rate Accuracy	Omron module : ±2 BPM or ±2%, whichever is greater AND module : ±5%
Technique	Oscillometric Measurement
Measurement Modes	
NIBP AUTO Mode Intervals	Off, 1, 2.5, 3, 5, 10, 15, 30, 60, 90 minutes
Measurement Range	Omron module: Adult/Pediatric SYS 60 to 250 mmHg MAP 45 to 235 mmHg DIA 40 to 200 mmHg Neonatal SYS 40 to 120 mmHg MAP 30 to 100 mmHg DIA 20 to 90 mmHg AND module: Adult/Pediatric SYS 40 to 270 mmHg DIA 20 to 200 mmHg Neonatal SYS 40 to 120 mmHg DIA 20 to 90 mmHg
NIBP Accuracy	Mean error and standard deviation per ISO 81060-2:2013
Pressure Display Range	Adult/Pediatric 0 to 300 mmHg Neonatal 0 to 150 mmHg
Pressure Display Accuracy	Within ±3mmHg
Initial Cuff Inflation	Adult/Pediatric Smart, 120, 140, 160, 180, 200, 220, 240, 260, 280 mmHg (16.0, 18.7, 21.3, 24.0, 26.7, 29.3, 32.0, 34.7, 37.3 kPa) Neonatal 80, 90, 100, 110, 120, 130, 140 mmHg (10.7, 12.0, 13.3, 14.7, 16.0, 17.3, 18.7 kPa)
Automatic Cuff Deflation	Measurement time exceeding 180s in adult/pediatric (90s in neonatal) or maximum pressure value exceeding 300 mmHg in adult (150 mmHg in neonatal)
Overpressure Protector	300mmHg for Adult / 150mmHg for Neonatal
Defibrillator Protection	Protected
Measurement Speed	Omron module:About 20 seconds At the following condition: Adult SYS 120 mmHg MAP 95 mmHg DIA 80 mmHg/ PR 80 BPM Manual Measurements (180 mmHg)

Option

Thermal printer, LAN card, Battery (3 types), Nellcor OXIMAX Spo2, Temperature probe

EtCO2 Option (Mainstream and sidestream)

Display	$EtCO_2$, $InCO_2$
Range	0 - 150mmHg
Accuracy	0-40mmHg ±2mmHg of 41-70mmHg ±5% of reading 71-100mmHg ±8% reading 101-150mmHg ±10% reading
Display accuracy	±2mmHg
Response time	Mainstream : less than 60ms Sidestream : less than 3sec
Gas Compensation	User selective at O_2 > 60% and N_2O > 50%
Warm Up Time	2 minutes maximum
Sound Noise Level	less than 41dB when ambient sound pressure level is 22dB
Sweep Speeds	6.25mm/sec, 12.5 mm/sec and 25.0 mm/sec

FDA UL CE 0434

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