



Flexible Patient Monitor

PRIZM 3 This advanced pulse oximeter offers fast and reliable SpO2, Pulse Rate and ECG with waveform and trend display.

The alarm system for NIBP, Temp and ECG makes it easy to monitor a patient. Its built-in battery lasts for more than 3 hours and makes the PRIZM ES the first choice for hospital and patient transport by ambulance.

There are 9 types of optional composition available according to User choice, such as ECG + NIBP + SpO2, ECG + NIBP + SpO2 + Temp, ECG + SpO2, NIBP + SpO2 + TEMP, SpO2 + ECG and so on

Mono graphic LCD Display

240 x 64 pixels resolution

*Display data : SpO2, HR(PR),
 SYS, DIA, MEAN, TEMP,
 Battery status, PI, ECG
 channel, alarm status*

Trend memory: 15 days

*Audible and visual alarms:
 (SpO2, PR, HR, SYS, DIA,
 MEAN, TEMP) Low battery,
 ECG lead off, SpO2 finger off,
 system error*

SPECIFICATIONS

PRIZM 3

The Flexible Patient Monitor

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DISPLAY

Type : Mono Graphic LCD
 Resolution : 240 x 64 pixels
 Waveform Type : ECG leads I , II , III
 Indicator : AC power or battery operated indicators
 Display data : SpO₂, HR(PR), SYS, DIA, MEAN, TEMP,
 Battery status, PI, ECG channel, alarm status

TRENDS

Memory : 15 days at 10 second interval
 Display : Tabular

INTERFACE

S/W Upgrade : RS-232

PERFORMANCE

ECG

Leads : 3-lead(I , II , III)
 Display Sensitivity : 1.0 cm/mV ±10%
 Gain Selection : x0.25, x0.5, x1, x2
 Frequency Response : 0.5 to 40Hz
 Sweep Speed : 25mm/sec, 50mm/sec
 Pacemaker Detection : yes
 Heart Rate Range : 0 to 300bpm
 Heart Rate Accuracy : ± 3% or ± 3bpm whichever is greater

Pulse Oximetry(SpO₂)

Measurement Range
 SpO₂: 0 to 100%
 Pulse Rate: 15 to 300bpm
 Accuracy
 SpO₂: 70 to 100% ±2%, 0 to 69% - unspecified
 Pulse Rate: 15 to 300bpm±3bpm

Temperature

Measurement Range : 15 to 45 °C (59 to 113F)
 Accuracy : ± 0.1°C (25 to 45°C) ± 0.2°C (15 to 24°C)
 Probe type : Compatible with YSI 400 series

NIBP

Technique : Oscillometric
 Measurement Range :
 Adult; SYS 30 to 270mmHg - DIA 10 to 220mmHg - MEAN 20 to 235mmHg
 Pediatric; SYS 30 to 235mmHg - DIA 10 to 220mmHg - MEAN 20 to 225mmHg
 Neonate; SYS 30 to 135mmHg - DIA 10 to 110mmHg - MEAN 20 to 125mmHg
 Cuff Pressure Range : 0 to 280mmHg
 Pressure Accuracy : ±2% or ±3 mmHg, whichever is greater
 Static : ±5 mmHg average error
 Clinical : 8 mmHg standard deviation
 Pulse rate measuring range : 40~240bpm
 Inflation time for cuff : Less than 40 sec. (standard adult cuff)
 Total cycle time : 20 to 45 seconds typical (depend on heart rate and motion artifact)
 Intervals for AUTO measurement time :
 5, 10, 15, 30, 60, 90, 120, 240, 480, 960 minutes
 Overpressure Protection : Hardware and software double protections
 Adult : 315±10 mmHg
 Pediatric : 265±10 mmHg
 Neonate : 155±10 mmHg

ELECTRICAL RATINGS

Main Machine
 Input Voltage : 100-240VAC, 50/60Hz
 Power Consumption: 24 VA
 Fuse Rating: 1 Amp, 250 V
 Power supply: Output DC12V
 Battery Type : NI-MH
 Battery Run Time : 2 hours

ENVIRONMENTAL CONDITIONS

Temperature
 Operating : 5 to 40 °C (41 to 104F)
 Storage : -20 to 60 °C (-4 to 140F)
 Humidity
 Operating : 15 to 95% , non-condensing
 Storage : 10 to 95% , non-condensing

PHYSICAL DIMENSIONS

Weight : 1,200g
 Size : 85(H) x 245(W) x 84(D)mm

ALARMS

Audible and visual
 alarms(SpO₂, PR, HR, SYS, DIA, MEAN, TEMP)
 Low battery, ECG lead off, SpO₂ finger off, system error
 Silence : 2 minutes
 Volume : 0(off)~7