



PaceTech

VITALMAX 4000/4100

STANDARD FUNCTIONS

- 3 , 5 Lead ECG
- SPO2 , NIBP, Impedence Respiration, Temperature
- ST Segment and Arrhythmia Analysis
- Priority Alarms (Visual & Audible)
- Tabular / Graphical Trending 168 Hrs
- Touch Screen
- Thermal Recorder
- Drug Calculations
- OXY CRG
- Ethernet / WLAN / RS-232


OPTIONAL FUNCTIONS

- Central Station Monitoring
- ETCO2 & AG Module
- Invasive Blood Pressure
- Cardiac Output
- 10-Lead ECG

STANDARD FEATURES

- Large 12.1"/15" LCD TFT High Definition Touch Screen Display
- Selectable Waveforms
- Programmable NIBP Cycles
- Real time and Freeze Waveforms
- Alarm Triggered printout
- Adult, Pediatric & Neonatal usage
- AC/DC Operation



FDA 510(k) Clearance
 Made in USA

SPECIFICATIONS ***SAFETY**

Meet the requirement of FDA 510K & Equipment Protection Class I

Type of Protection:	Class I (on AC power) Internally Powered (on Battery power)
Degree of Protection:	Type BF, defibrillation-proof CF Applied parts
Sterilization or Disinfection methods:	70% isopropyl alcohol solution or a non-staining disinfectant.
Operation Mode:	Continuous Operation
Protection Against Ingress of Liquid's:	IPX1
ECG:	ESU and defibrillation protected

APPLICATION

Neonatal, pediatric and adult patients

PHYSICAL DIMENSIONS & WEIGHT

Base Unit:	345 x 336 x 165mm (13.5x13.25x6.5")
Weight:	15 lbs / 7.0kg

PERFORMANCE SPECIFICATIONS

Display:	12.1 / 15" inch Color TFT Touchscreen
Trace:	More than 10 waveforms
Waveforms:	ECG (I, II, III, aVR, aVL, aVF, V1-V6), PLETH, RESP, IBP1, IBP2, EtCO ₂
Indicators:	Alarm indicator Power indicator QRS beep and alarm sound
Trend time:	From 30 minutes to 168 hours
Recorder:	Built-in, thermal array, 2 channels Record width: 48mm Recorder paper: 50mm Record speed: 25mm/s, 50mm/s

ECG

Input:	3 / 5 / 10-lead ECG cable, AAMI standard
Lead Selections:	I, II, III, aVR, aVL, aVF, V
Gain Selections:	x0.25 x0.5 x1.0 x2.0
Frequency Characteristics:	0.5-40Hz ±3dB Monitor, 0.05-130Hz Diag.
ECG Waveforms:	3 / 5 / 10 Leads
Sweep Speeds:	12.5, 25 and 50mm/s
HR Display Range:	15-350bpm
Accuracy:	±1bpm or ±1%, whichever is greater
Alarm Limit Range:	Upper limit: 80-400bpm Lower limit: 20-150bpm

RESPIRATION

Measurement Method:	RA-LL impedance (Lead II)
Range:	0-150rpm
Accuracy:	±3rpm
Alarm Upper-lower Limit:	Upper limit: 6-120rpm, Lower limit: 3-120rpm
Sweep Speed:	6.25, 12.5, and 25mm/s

NIBP

Measurement Technology:	Automatic Oscillometric Measurement
Cuff Inflation:	<30s-0-300mmHg standard adult cuff
Measurement Period:	Average <40s
Operating Modes:	Manual, Auto, STAT
Measurement Interval in AUTO Mode:	1 minutes to 480 min
Pulse Rate Range:	30 bpm-250bpm
Measuring Range:	Adult/Pediatric Mode SYS 40-250mmHg DIA 15-200mmHg Neonatal Mode SYS 40-135mmHg DIA 15-100mmHg
Resolution:	+/- 3mmHg
Pressure Accuracy:	Maximum Mean error: ±5mmHg Maximum Standard deviation: 8mmHg
Overpressure Protection:	Adult Mode 297mmHg Neonatal Mode 147mmHg
Alarm Limit:	SYS 30-240mmHg DIA 15-180mmHg

TEMPERATURE

Range:	0-50 C
Accuracy:	± 0.2° @ 25.0-34.9 C ± 0.1° @ 35.0-39.9 C ± 0.2° @ 40.0-44.9 C ± 0.3° @ 45.0-50.0 C
Display Resolution:	0.1 C
Units:	Selectable, C or F
Alarm Upper-lower Limit:	Upper limit 0-50, Lower limit 0-50 C
Channels:	2 channels plus ΔTemperature
Alarm Limit:	10-50 C

SPO2

ASpO ₂ :	Anti-motion SpO ₂
SpO ₂ % Range:	0-100%, with proportional pitch beep
SpO ₂ Accuracy:	± 2% 70-100%, non-motion ± 3% 70-100%, motion
Pulse Rate Range:	0-250bpm
Pulse Rate Accuracy:	±2bpm (non-motion), ±3bpm (motion)
Alarm Upper-lower Limit:	Upper limit 50-100% Lower limit 50-100%
SpO ₂ Probe:	Red LED wavelength 660nm±5nm Infrared LED wavelength 940nm±10nm

IBP (OPTION)

Measurement Range:	-10 to 300mmHg
Channels:	2 channels
Pressure transducer:	Sensitivity, 5μV/mmHg
Impedance range:	300-3000Ω
Transducer sites:	ART, PA, CVP, RAP, LAP, ICP
Resolution:	1mmHg
Accuracy:	±1mmHg or ±2%, whichever is greater
Alarm Range:	-10 to 300mmHg

EtCO₂ (OPTION)

Mode of Sampling:	Sidestream or Mainstream
Principle of Operation:	Nondispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.
CO ₂ measurement Range:	0 to 150mmHg (0 to 19.7%, 0 to 20kPa)
CO ₂ Calculation Method:	BTPS (Body Temperature Pressure Saturated)
CO ₂ Resolution:	0.1mmHg (0-49mmHg), 0.25mmHg (50-150mmHg)
CO ₂ Accuracy:	0~40 ± 2mmHg 41~70mmHg ±5% of reading 71~100mmHg ±8% of reading 101~150mmHg ±10% of reading > 80 breath per minute ±12% of reading
Sampling rate:	100Hz
Respiration Rate:	2-150bpm
Respiration Rate Accuracy:	±1 breath
Response Time:	<3 seconds, includes transport and rise time
Inspired CO ₂ Measurement Range:	3-50mmHg

NETWORKING

:	Industry standard Ethernet wired network Connected bedside number: Up to 64 bedside monitors Industry standard LAN / WLAN Supports TCP/IP Protocol
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POWER

Source:	External AC power and internal battery
AC Power:	100-240VAC, 50/60Hz, 150VA
Battery:	Built-in and rechargeable
Charge Time:	5 hours
Operating Time:	4 hours
Fuse:	F2.0A250V

ENVIRONMENTAL SPECIFICATIONS

Temperature:	Operating: 0-40°C Storage: -20-60°C
Humidity Range:	Operating: 15-95% Storage: 10-95%

BATTERY

Type:	Lithium 7.4V-2200mAh
Operating Time On Battery:	4 hours
Operating Time After Low Battery Alarm:	15 minutes

RECORDER (OPTION)

Record Width:	48mm
Paper Speeds:	25mm/s, 50mm/s
Traces:	2

LCD SPECIFICATIONS

Display Type:	TFT color LCD
Size (diagonal):	31cm / 38 cm (12.1"/15")
Active Area:	Touch
Pixel Format	800 H x 600 V (1 pixel=R + G + B dots)
Pixel Pitch (W x H) :	0.3075 x 0.3075mm
Number of Colors (resolution):	262,144 colors (6 bits/color)
Display Mode:	Normally white
Surface Treatment:	Anti-glare and hard-coating 3H

TOUCHSCREEN SPECIFICATIONS

Type:	Four-Wire Analog Resistive Touch Panel
Input Modes:	Stylus Pen or Finger
Active Area:	245.00±0.20x183.00±0.20mm
Total Thickness:	2.25±0.20mm
Transparency:	78±3% (Measured by BYK-Gardner)
Haze:	Antiglare Finish 10±3%

Note: ±1Arms represents about 68% of measurements.

* Specifications are subject to change without notice.

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