Multi-Parameter Patient Monitor

CE 0123

VitaPia 7000K

- 12.1” High brightness TFT LCD display
- Portable & streamline handle design
- Big figure display
- ECG waveforms of 7-lead display in one screen
- 72 hours review trend
- 480 hours review trend with external memory
- Compatible and self-identify 3/5-lead ECG cable
- NIBP dual over pressure protection
- Isolated floating, anti-defibrillation protected and anti-high frequency interference
- Networking capacity with standard parameter and configuration
- Optional parameter & configuration : 2-IBP, 2-TEMP, Recorder,
  12-lead ECG, EtCO2, Central Network S/W, Wireless Network, VGA, Touch LCD

Standard Screen

OxyCRG Screen

Alarm Recall Screen

TRISMED Cardiac Diagnosis Systems

Satisfaction Superiority Specialization

Multi-Parameter Patient Monitor VITAPIA7000K Technical Specifications

Classification		
Anti-electroshock type		Class I equipment and internal powered equipment
EMC type		Class A
Anti-electroshock degree		ECG(RESP), SPO_2, NIBP, IBP, TEMP, CO_2 CF
Specifications		
Size Monitor		310 X 140 X 263 mm
Weight Monitor		3.8 kg
Temperature	Working	5 ~ 40℃
	Transport/ Storage	-40 ~ +55℃
Humidity	Working	30% ~ 75%
	Transport/ Storage	≤95% (no coagulate)
Altitude	Working	700hPa ~ 1060hPa
	Transport/ Storage	-500hPa ~ 1060hPa
Power Supply		100~240 VAC, 50 / 60 Hz, Pmax = 150 VA, FUSE T1.6A
Display	Device	12.1 in. color TFT, 3 LED / 800 X 600 dots
	Touch LCD(Option)	viewing angle (up :70° down:70° left:50° right:60° and the best angle is 60°)
	Messages	·8 Waveforms Maximum ·1 Alarm LED (Yellow/Red) ·1 Power LED (Green) ·1 Battery Charge LED (Yellow) ·3 Sound Mode corresponding Alarm Mode
Signal Interface	ECG Output	BNC
	Amplitude	1 mV
	Accuracy	<5%
	Impedance	50 Ω
	Signal Delay	<20 ms
Battery		· Rechargeable 3.7 A/Hr 7.4 V Li battery · Operating time under the normal use and full charge greater than 120 min. · Operating time after the first alarm of low battery will be about 5 min.
Recorder (Option)	Record Width	48 mm
	Paper Speed	25 mm/s or 50 mm/s
	Trace	2
Recall	Trend Recall	· Short : 1 hrs, 1 second Resolution · Long : 72 hrs, 1 min Resolution
	Alarm Event Recall	71 alarm events of all parameters and 8/16/32 seconds of corresponding waveform.
	NIBP Measurement Recall	At least 400 NIBP measurement data
	SD card	· 72hrs ECG waveform · 480hrs TREND review
ECG	Lead mode	5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)
	Lead selection	I, II, III, avR, avL, avF, V
	Waveform	2CH
	Lead mode	3 Leads (R, L, F, or RA, LA, LL)
	Lead selection	I, II, III
	Waveform	1ch
	Gain	x2.5 mm/mV, x5.0 mm/mV, x10 mm/mV, x20 mm/mV
	HR	· Measuring Range : 15~300 bpm · Alarm Range(ADU) : 15~300 bpm · Alarm Range(PED/NEO) : 15~350 bpm · Accuracy : ±1% or ±1 bpm , which great · Resolution : 1 bpm · Sensitivity :>200 uV P-P
	Differential input impedance	>5 MΩ
	CMRR	· Monitor : ≥ 100 dB · Operation : ≥ 100 dB · Diagnosis : ≥ 60 dB
	Electrode offset potential	±300 mV
	Leakage Current	<10 uA
	Baseline Recovery	<5s After Defi.
	ECG Signal Range	±8 mV (Vp-p)
	Bandwidth	· Surgery : 1 ~ 20 Hz (+0.4 dB, -3 dB) · Monitor : 0.5 Hz ~ 40 Hz (+0.4 dB, -3 dB) · Diagnostic : 0.05 Hz ~ 75 Hz (+0.4 dB, -3 dB), 76 Hz ~ 150 Hz (+0.4 dB, -4.5 dB)
	Calibration Signal	1 mV (Vp-p), ±5% Accuracy
	ST Segment	Measure Range : -0.6 ~ +0.8 mV
	Monitoring Range	Alarm Range : -2.0 ~ +2.0 mV
	ARR Detecting	Type :ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC
		Alarm : Available
		Review : Available
RESPIRATION	Method	Impedance between R-F (RA-LL)
	Differential Input Impedance	> 2.5 MΩ
	Measuring Impedance Range	0.3 ~ 5.0Ω
	Base line Impedance Range	0.1 ~ 2.5 KΩ
	Bandwidth	0.3 ~ 2.5 Hz
	Resp. Rate	·Measuring Range : 0 ~ 120 rpm ·Alarm Range(ADU) : 0~120rpm ·Alarm Range(PED/NEO) : 0~150rpm ·Resolution : 1 rpm ·Accuracy : ±2 rpm
	Apnea Alarm	10 ~ 40 S

NIBP	Method	Oscillometric
	Mode	Manual, Auto, STAT
	Measuring Interval in AUTO Mode	1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480, 960 min
	Measuring period in STAT Mode	5 min
	Alarm Type	SYS, DIA, MEAN
	Measuring and alarm Range	
	Adult mode	· SYS : 40 ~ 270 mmHg · DIA : 10 ~ 215 mmHg · MEAN : 20 ~ 235 mmHg
	Pediatric mode	· SYS : 40 ~ 200 mmHg · DIA : 10 ~ 150 mmHg · MEAN : 20 ~ 165 mmHg
	Neonatal mode	· SYS : 40 ~ 135 mmHg · DIA : 10 ~ 100 mmHg · MEAN : 20 ~ 110 mmHg
	Resolution	Pressure : 1 mmHg
	Accuracy	· Pressure(Maximum Mean error) : ±5 mmHg · Pressure(Maximum Standard deviation) : ±8 mmHg
	Overpressure protection	· Adult mode : 297±3 mmHg · Pediatric mode : 240±3 mmHg · Neonatal mode : 147±3 mmHg
SpO_2	Measuring Range	0 ~ 100%
	Alarm Range	0 ~ 100%
	Resolution	1%
	Accuracy	· 70 ~ 100% ±2% · 0% ~ 69% unspecified
	Actualization interval	about 1 sec
	Alarm Delay	10 sec
	Pulse Rate	· Measuring and Alarm Range : 0 ~ 250 bpm · Resolution : 1 bpm · Accuracy : ±2 bpm
TEMPERATURE	Channel	2
	Measuring and Alarm Range	0 ~ 50℃
	Resolution	0.1℃
	Accuracy	±0.2℃
	Actualization interval	about 1 sec
	Average Time Constant	<10 sec
IBP (Option)	Channel	2
	Label	ART, PA, CVP, RAP, LAP, ICP, P1, P2
	Measuring range	-10 ~ +300mmHg
	Alarm range	-50 ~ +350mmHg
	Press Sensor	Sensitivity : 5 uV/V/mmHg
		Impedance : 300 ~ 3000 Ω
	Resolution	1 mmHg
	Accuracy	±2% or 1 mmHg which great
	Actualization Interval	about 1 sec
CO_2(Option)	Method	Infra-red Absorption Technique
	Measuring mode	Mainstream and Sidestream
	Side-stream mode sampling gas flow rate	50 ml/Min. ± 10 ml/Min.
	Measuring range	CO_2: 0 ~ 150 mmHg $INSCO_2$: 0 ~ 150 mmHg AwRR : 2 ~ 150 rpm
	Resolution	CO_2 : 0.1 mmHg (0 ~ 69 mmHg), 0.25 mmHg (70 ~ 150 mmHg) $INSCO_2$: 0.1 mmHg (0 ~ 69 mmHg), 0.25 mmHg (70 ~ 150 mmHg)
	Accuracy	CO_2: ±2 mmHg, 0 ~ 40 mmHg ±5% of reading, 41 ~ 70 mmHg ±8% of reading, 71 ~ 100 mmHg ±10% of reading, 101 ~ 150 mmHg AwRR : ±1 rpm
	Pace maker(Option)	Available
	Initialization Time	Mainstream : Capnogram displayed in less than 15 sec at an ambient temp. of 25℃, full specifications within 2 min Sidestream : Capnogram displayed in less than 20 sec at an ambient Temp. of 25℃, full specifications within 2 min Mainstream Rise Time : Less then 60ms-Adult Reusable or Single-Patient-Use Airway Adapter Less then 60ms-Infant Reusable or Single-Patient-Use Airway Adapter
	Actualization interval	about 1 sec
	Sidestream Delay Time	2 ~ 3 sec
	Alarm range	CO_2: 0 ~ 150 mmHg $InsCO_2$: 0 ~ 150 mmHg AwRR : 2 ~ 150 rpm
	Suffocation Alarm Delay	AwRR : 10 ~ 60 sec

❊ Contents and specification subjects change without notice

TRISMED CO., LTD 409 SMECA, 65 Techno 3-ro, Yuseong-gu, Daejeon 34016, Republic of Korea
E-mail, Sales: trismed@trismed.com, Service: info@trismed.com **Web:** www.trismed.com
Tel, +82-42-936-7201 **Fax.** +82-42-936-7202

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