

Multi Parameter Patient Monitor

VITAPIA7200T

- Semi-Modular and integrated design
- Multi-parameter : ECG, NIBP, SpO₂, Resp, Temp
- Optional parameter : 12-ch ECG, 2-IBP, 4-IBP, EtCO₂, Anesthetic gas
- Easy Operation with touch and button navigation
- Low power consumption : 6 hour battery operation
- Short System booting time
- Low perfusion and accurate measurement (SpO₂)
- High qualified connector for long lasting use and reliable measurement
- Internal large memory for over 60 days data saving
- HDMI video output
- External micro SD card slot
- Optional central network system (wire/wireless)



Type	VITAPIA7210	VITAPIA7212	VITAPIA7215
LCD Size	10.4"	12.1"	15"
Touch Screen	Standard	Standard	Standard

Multi Parameter Patient Monitor VITAPIA7200T Technical Specifications

Classification

Anti-electroshock type EMC Type Anti-electroshock degree Ingress Protection Disinfection/sterilization method Working System	Class I equipment and Internal powered equipment Group 1, Class A ECG(RESPI), TEMP, IBP, C.O.CF, SpO2, NIBP, CO2, BF IPX1 Refer to Chapter Care and Cleaning for details Continuous operation equipment
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Specifications

Size & Weight Monitor	Type 7210 Size : 285mm (L) X 145mm (W) X 253 mm(H) Weight : < 3.6kg Type 7212 Size : 316mm (L) X 145mm (W) X 284 mm(H) Weight : < 3.8kg Type 7215 Size : 368mm (L) X 145mm (W) X 342 mm(H) Weight : < 6kg
Temperature Humidity Altitude Power Supply Display	Working : +0 ~ +40 °C / Transport and Storage : -20 ~ +50 °C Working : 15%~95% / Transport and Storage : 15~95% (non-condensing) Working : 86kPa ~ 106kPa / Transport and Storage : 70kPa ~ 106kPa 100V-240V~, 50Hz/60Hz, 0.3A-0.7A, FUSE/T 1.6AL, 250VP Type 7210 10.4" Colour TFT, Touch Screen, Resolution : 800 X 600 Type 7212 12" Colour TFT, Touch Screen, Resolution : 800 X 600 Type 7215 15" Colour TFT, Touch Screen, Resolution : 1024 X 768 Messages
Battery	A Maximum of 10waveforms / Onepower LED / Twoalarm LED / Onecharge LED Type 7210 Rechargeable 2.5Ah / Operating Time : More than 3.5 hours Type 7212 Rechargeable 2.5Ah / Operating Time : More than 2.5 hours Type 7215 Rechargeable 2.5Ah / Operating Time : More than 2 hours Record width : 48mm Paper Speed : 25mm/s, 50mm/s Trace : 3 Trend graph/trend table review : 1hour, at 1second Resolution by default 120hour, at 1min, Resolution by default
Recorder Data Storage	Alarm Measurement Review : up to 60 sets NIBP Measurement Review : 1200 sets Arrhythmia events : Up to 60 sets 12-lead Dignosis Review : Up to 50 sets

ECG

Lead Mode	3-Lead : I, II, III / 5-Lead : I, II, III, aVR, aVL, aVF, V 12-Lead : I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
Waveform	3-Lead : 1-channel waveform / 5-Lead : 2-channel waveform, max. seven waveform 12-Lead : 2-channel waveform, a maximum of 13 wave forms
Lead naming style Display Sensitivity Waveform Speed Bandwidth [-3dB] CMRR	AHA, IEC 2.5mm/mV (x0.25), 5mm/mV (x0.5), 10mm/mV (x1), 20mm/mV (x2), AUTO gain 12.5mm/s, 25mm/s, 50mm/s Diagnosis: 0.05Hz to 150Hz / Monitor: 0.5Hz to 41Hz / Surgery: 1Hz to 20Hz Diagnosis: > 95dB (the Notch filter is off) Monitor: > 105dB (the Notch filter is on) Surgery: > 110dB (the Notch filter is on)
Notch Differential input impedance input Signal Range Accuracy of Input Secnal Reconstruction Electrode Offset Potential Tolerance Auxiliary Current (Lead off detection) Recovery time after Defibrillation Leakage current of patient Scale Signal System noise ESU Protection Heart Rate	In diagnosis, monitoring, surgery mode: 50Hz/60Hz > 5MΩ ±10mV (peak-to-peak value) ANSI/AAMI EC13:2002, Sect. 4.2.9.8. ±600mV Active electrode: < 100nA / Reference electrode: < 900nA < 5s < 10μA 1mV(peak-to-peak value), accuracy is ±5% < 30μVPP Recovery time: ≤ 10s Measurement Range : ADU: 15 bpm ~ 300bpm / PED/NEO: 15 bpm ~ 350bpm Accuracy : ±1% or ±1 bpm, whichever is greater Resolution : 1bpm
PVC	Measurement Range : ADU: 0~300 PVCs/ min / PED/NEO: 0~350 PVCs/ min Resolution : 1 PVCs/min
ST Value (only applicable to adult)	Measurement Range : -2.0 mV ~ +2.0mV Accuracy : -0.8mV ~ +0.8mV: ±0.02mV or 10% (I), whichever is greater. Resolution : 0.01mV
16different arrhythmia analysis Classification (applicable to adult and pediatric)	Non-Paced Patient : ASYSTOLE, R on T, VFIB/VTAC, PVC, COUPLET, TACHY VT > 2, BRADY, BIGEMINY, MISSED BEATS, TRIGEMINY, IRR, VENT, VBRADY Paced Patient : ASYSTOLE, TACHY, BRADY, PNC, PNP

RESPIRATION

Measurement method Measurement lead Waveform amplitude Waveform speed Respiration excitation waveform Measuring sensitivity Baseimpedance range Maximum dynamic range Waveform bandwidth Differential input impedance *RRmeasuring range Resolution *Accuracy Apnea Alarm dealy	Trans-thoracic impedance Lead Options are lead I and II. (Default : II) x0.25, x0.5, x1, x2, x3, x4, x5 6.25mm/s, 12.5mm/s, 25.0mm/s, 50mm/s < 300 μA, sinusoid, 62.8 kHz (± 10%) 0.3 Ω (base impedance 200 to 4500 Ω) 200to 2500 Ω(cable resistance = 0 K) / 2200 to 4500 Ω (leads cables 1KΩ resistance) 500 Ω base impedance, 3 Ω variable impedance 0.2 to 2.5Hz [-3dB] > 5 MΩ Adult : 0 to 120 rpm, Neo/Ped : 0 to 120 rpm 1rpm. ± 2 rpm 10s, 15s, 20s(Default), 25s, 30s, 35s, 40s.
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NIBP

Measurement method Mode Measuring interval in AUTO Mode Continuous Measuring Type *Measuring Range	Oscillometric Manual, Auto, Continuous 1/2/3/4/5/10/15/30/60/90/120/240/480 min 5min, interval is 5s SYS, DIA, MAP, PR Adult Mode : SYS: 40 mmHg ~ 270 mmHg DIA: 10 mmHg ~ 215 mmHg MAP: 20 mmHg ~ 235 mmHg Pediatric Mode : SYS: 40 mmHg ~ 230 mmHg DIA: 10 mmHg ~ 180mmHg MAP: 20 mmHg ~ 195 mmHg Neonatal Mode : SYS: 40 mmHg ~ 135 mmHg DIA: 10 mmHg ~ 100mmHg MAP: 20 mmHg ~ 110 mmHg
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Resolution *Accuracy Overpressure Protection	1mmHg Maximum mean error : ±5mmHg Maximum standard deviation : 8mmHg Adult : 297±3mmHg, Pediatric : 245±3mmHg Neonatal : 147±3mmHg * Measurement range :40 bpm ~240bpm * Accuracy : ±3bpm or 3.5%, whichever is greater
PR	

SpO2

Measuring Range Resolution Accuracy	0 ~ 100 % 1% Adult (including Pediatric) : ±2 % (69%~100% SpO2) Undefined (0~68% SpO2) Adult (including Pediatric) : ±3 % (69%~100% SpO2) Undefined (0~68% SpO2)
Pulse Rate	* Measuring Range : 25bpm~ 300bpm Resolution : 1bpm * Accuracy : ±2 bpm
Data Update period Sensor	1s Wave length : Red light : 660 ± nm; Infrared light : 905 ± 10 nm
PI	Emitted light energy : < mW Measuring Range : 0-10, invalid PI value is0. Resolution : 1

TEMPERATURE

Measurement method Channel Sensor type * Measuring Range Resolution * Accuracy Unit Refresh Time	Thermal resistance 2 YSI-10K 0°C - 50 °C 0.1°C ±0.1°C °C, °F 1s-2s
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IBP

Measurement method Pressure Sensor	Direct invasive measurement Sensitivity : 5(μV/V/mmHg) Impedance range : 300 to3000 Ω
Measuring range	Art : 0 to 300 mmHg PA : - 6 to +120mmHg CVP/RAP/LAP/ICP : -10 to +40 mmHg P1/P2 : -50 to +300 mmHg 1mmHg
Resolution * Accuracy	± 2 % or 1 mmHg, whichever is greater

CO2

Intended patient Measurement method Unit * Measuring Range	Adult, pediatric, neonatal Infra-red Absorption Technique mmHg, %, Kpa EtCO2 : 0 mmHg ~ 150 mmHg FiCO2 : 3 mmHg ~ 50 mmHg AwRRR : 2 rpm~150 rpm(sidestream) 0 rpm~150 rpm(mainstream)
Resolution	EtCO2 : 1mmHg FiCO2 : 1mmHg AwRRR : 1 rpm
EtCO2 Accuracy	± 2mmHg, 0 to 40 mmHg ± 8 % of reading, 71 to 100 mmHg ± 10 % of reading, 101 to 150 mmHg ± 12 % of reading, RESP measurement value exceeds 80rpm(sidestream)
* AwRRR Accuracy Sample Gas Flowrate Stability	± 1 rpm 50 ± 10ml/min Short Term Drift : Less than 0.8 mmHg over 4Hours Long Term Drift : Accuracy specification will be maintained over a 120hour period.
O2 Compensation CAS Compensation	Range : 0~100%, Resolution : 1% Default : 16% Range : 0~20%, Resolution : 0.1%, Default : 0.0% Balance gas compensation : Including Helium, N2O, Room air Apnea Alarm Delay : 10s, 15s, 20s, 25s, 30s, 35s, 40s (Default value is 20s)

※ Contents and specification subjects change without notice



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