



- ECG (3CH)
- SpO₂
- NIBP
- RESP
- 2TEMP
- 2IBP
- HR/PR
- APG
- HRV
- EKG (12CH)
- 4TEMP
- 4IBP
- ICO
- EtCO₂
- Touch Screen
- Multi-gas
PhaseIn AB; AX+, OR+

VP-1200

Multi Parameter Patient Monitor for high-end specialist.

- 12.1" high resolution(800x600) with maximum 10 waveforms
- Standard Configuration : ECG, SpO₂, NIBP, Resp, 2Temp, 2IBP
- 6 kinds of Virtual Screen
- 3CH ECG : Full 7 ECG & ST Segment analysis
- 12CH ECG : Full 12 ECG & ST segment analysis
- 13 Arrhythmia analysis & Pacemaker detection
- 7days tabular and graphic trend data save
- Drug Dose Calculation, ECG Recall, MiniTrend, ICO, Color change, NIBP STAT, NIBP VENOUS STAT, OXY-CRG, Patient information, Temp TD
- Easy S/W upgrade using SD Card(Max 2Gbyte)
- Durable, and light Long Li-ion battery operation (Std 1Pack : 2hr, 2Pack : 4hr)
- LAN and Wireless LAN
- PhaseIn's Multi-gas Mainstream(IRMA AX+), Sidestream(ISA AX+, OR+)
- Respronics's EtCO₂ Mainstream (C5), Sidestream (LiFlo)
- HRV, APG Detection, Touch Screen(Optional)



General

Display

- 12.1 inch (800 X 600)
- Up to 10 wave trace On/Off
(3ch ECG, SpO2, 4 IBP, Resp, EtCO2)
- Full ECG 7 wave Display. (I, II, III, aVR, aVL, aVF, V)

Parameters

- ECG, SpO2, NIBP, 4 IBP, Resp, 4 Temp, EtCO2, ICO
- HRV, APG detect analysis.



Interface

- RS-232 port, VGA Port, LAN, ECG output(opt.) Port.
- SD Memory Card Port.

Power

- AC 100~240V, 50/60Hz, 80VA (MAX)
- BATTERY : Li-ion (2 hours) (opt : 2 Pack [4hours])

Thermal Printer (Option)

- 3 channel
- Speed : 12.5, 25, 50 mm/sec
- Paper size : 58 mm

Trend

- Memory Storage : 7 days (Standard)
- Tabular and Graphic Data Interval :
1, 5, 15, 30 min...and 1 hours
- Save up to 20 Event data

Language

ENGLISH, FRENCH, SPANISH, GERMAN, ITALIAN, RUSSIAN,
TURKISH, CZECH, RUMANIA, PORTUGAL(BRA), POLISH

Physical Dimension

280mm X 290mm X 175mm
Weight : 7.0Kg (include battery)

ICO (Option)

- CI, SV, SI, LVSW, LVSWI, RVSW, RVSWI, SVR, SVRI, PVR, PVRI
- Catheter : Swan-Ganz standard Thermo dilution pulmonary Artery Catheter (131HF7, 744HF75)
- Edward Lifesciences

Multi-gas (Option)

- PhaseIn's Mainstream (IRMA AX+)
- PhaseIn's Sidestream (ISA AX+, OR+)

Performance

ECG

- LEAD 3 leads (Standard), 5 leads (Option)
- Channel 3 Channel : 3 leads / 7 leads (Full Display)
12 Channel : 12 leads (Option)
- HR Range 0 ~ 300 bpm (± 2 bpm)
- GAIN 2.5, 5, 10, 20, 30, 40, Auto mm/mV
- Sweep Speed 6.25, 12.5, 25, 50 mm/sec
- Pacemaker Mode Pacemaker Arrhythmia Detection (PNF, PNC)
- Arrhythmia Detect TAC, BRD, PVC, VTAC, ASY, BGM, TGM,
VENT, VFIB, CPT, TPT, MIB, RonT
- ST Analysis Range : $-9.9\text{mm} \sim +9.9\text{mm}$
Resolution : 0.1 mm
- HR Calculation 4~16 wave

SpO2

- Range 0 ~ 100 %
- Accuracy 100 ~ 70% $\pm 2\%$
69 ~ 50% $\pm 3\%$
49 ~ 0% unspecified
- Pulse range 0 ~ 300 bpm
- Accuracy 0 ~ 240 bpm ± 2 bpm,
241 ~ 300 bpm ± 3 bpm
- Low Perfusion 0, 1% up to
- Setting Time Wave out Time : Max 2 sec.,
SpO2 Percentage Display : Max 10 sec.
- GAIN 0.25, 0.5, 1, 2, 3, 4, Auto mm/mV
- Sweep Speed 6.25, 12.5, 25, 50 mm/sec

Respiration

- Range 0 ~ 200 rpm ($\pm 2\%$ or $\pm 2\text{bpm}$)
- Apnea OFF, 10 ~ 40 sec
- Waveform 0.25, 0.5, 1, 2, 3, 4, Auto ohm display

NIBP

- Technique Oscillometric
- Measurement Adult : 0 ~ 300 mmHg
Neonate : 0 ~ 150 mmHg
- Range 5~15 min
- NIBP STAT 50~200mmHg

IBP

- Channel 2 (Standard), 4 (Option)
- Range $-50 \sim 350$ mmHg
- Accuracy $\pm 1\%$
- Catheter Yuta, Biosensors International

TEMP

- Channel 2 (Standard), 4 (Option)
- Range 0 ~ 50.0 $^{\circ}\text{C}$
- Accuracy 25.0 ~ 50.0 $^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$,
0 ~ 24.9 $^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$

EtCO2 (Option)

- Measurement Mode Oridion's Microstream[®]
Respironics Mainstream/Sidestream
- Range 0 ~ 99 mmHg (0 ~ 9.9kPa / 0 ~ 9.9%)
- Resp Rate 0 ~ 150 bpm

VOTEM CO., LTD

2F, 856-5, Taegye-Dong, Chuncheon-si, Gangwon-Do, Korea 200-944

Tel +82-33-910-0701 Fax +82-33-911-0701

E-Mail votem@votem.kr Homepage www.votem.kr

VOT-1011(v.1.2) The information contained in this document is subject to change without notice

VO+EM
Network Patient Monitor System



Printed in Korea Nov.2010