



- ECG (3CH)
- SpO<sub>2</sub>
- NIBP
- RESP
- 2TEMP
- 2IBP
- HR/PR
- APG
- HRV
- EKG (12CH)
- 4TEMP
- 4IBP
- ICO
- EtCO<sub>2</sub>
- Touch Screen
- EtCO<sub>2</sub>
- 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, SpO<sub>2</sub>, NIBP, Resp, 2Temp, 2IBP
- 6 kinds of Virtual Screen
- 3CH ECG : Full 7 ECG & ST Segment analysis(Lead I , II ,III,aVR,aVL,aVF,V)
- 12CH ECG : Full 12 ECG & ST segment analysis(Lead I , II ,III,aVR,aVL,aVF,V1~V6)
- 13 Arrhythmia analysis & Pacemaker detection
- 7days tabular and graphic trend data storage
- 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 8Gbyte)
- Durable, and light Long Li-ion battery operation (Std 1Pack : 2hr, 2Pack : 4hr)
- LAN and Wireless LAN
- Respronic's EtCO<sub>2</sub> Mainstream (C5), Sidestream (LoFlo)
- HRV, APG Detection, Touch Screen(Optional)
- PhaseIn's Multi-gas Mainstream(IRMA AX+), Sidestream(ISA AX+, OR+)



## 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(opt.) 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 : 57 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, RUMANIAN, PORTUGUESE(BRAZIL),  
POLISH

### Physical Dimension

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

### ICO (Option)

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

## 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 ( $\pm 2$  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)  
TAC, BRD, PVC, VTAC, ASY, BGM, TGM,  
VENT, VFIB, CPT, TPT, MIB, RonT
- Arrhythmia Detect Range : -9.9mm ~ +9.9mm  
Resolution : 0.1 mm
- ST Analysis 4~16 wave
- HR Calculation

### 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  $\pm 2$  bpm,  
241 ~ 300 bpm  $\pm 3$  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 bpm ( $\pm 2\%$  or  $\pm 2$ 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
- NIBP STAT 5~15 min
- NIBP VENOUS STAT 50~200mmHg

### IBP

- Channel 2 (Standard), 4(Option)
- Range -50 ~ 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)

- Range Respiration Mainstream/Sidestream
- Resp Rate 0 ~ 99 mmHg ( 0 ~ 9.9kPa / 0 ~ 9.9%)  
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

