



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

SpO2

- Range
– Accuracy
– Pulse range
– Accuracy
– Low Perfusion
– Setting Time
– GAIN
– Sweep Speed
- 0 ~ 100 %
100 ~ 70% $\pm 2\%$
69 ~ 50% $\pm 3\%$
49 ~ 0% unspecified
0 ~ 300 bpm
0 ~ 240 bpm ± 2 bpm,
241 ~ 300 bpm ± 3 bpm
0.1% up to
Wave out Time : Max 2 sec.,
SpO2 Percentage Display : Max 10 sec.
0.25, 0.5, 1, 2, 3, 4, Auto mm/mV
6.25, 12.5, 25, 50 mm/sec

Respiration

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

NIBP

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

IBP

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

TEMP

- Channel
– Range
– Accuracy
- 2 (Standard), 4 (Option)
0 ~ 50.0 $^{\circ}\text{C}$
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
– Range
– Resp Rate
- Oridion's Microstream®
Respironics Mainstream/Sidestream
0 ~ 99 mmHg (0 ~ 9.9kPa / 0 ~ 9.9%)
0 ~ 150 bpm

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VO+EM
Network Patient Monitor System



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