

VP-1200



*Multi Parameter Patient Monitor
For high-end specialist.*



VP-1000



VP-1200, VP-1000 Multi-Parameter Patient Monitor for high-end specialist

- 12.1" (10.4") high resolution (800x600) with maximum 9 waveforms
- Standard Configuration : ECG, SpO2, 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, V2, V3, V4, V5, V6)
- 13 Arrhythmia analysis & Pacemaker detection
- 7days tabular and graphic trend data save
- Multi high-end Functions
Drug Dose Calculation, ECG Recall, Mini Trend, ICO, Color change, NIBP STAT, NIBP VENOUS STAT, OXY-CRG, Patient information, Temp TD
- Touch Screen (Option)
- 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
- Variable, and world best EtCO2 module
- Oridion's Microstream EtCO2
- Respronic's Mainstream (C5), Sidestream (LiFlo)
- HRV, APG Detection

VP-1200 & VP-1000

Multi Parameter Patient Monitor



• 12.1"(10.4") high resolution(800x600)

- provides clear visibility from long distance and any angle
- Maximum 9 waveforms

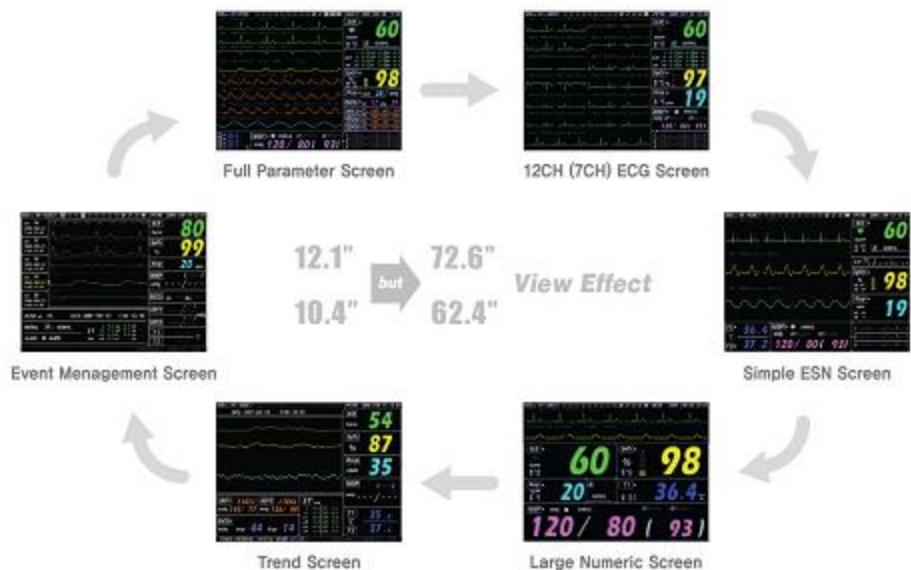


• Supreme Standard configuration and extensionability

- Standard : ECG, SpO2, NIBP, Respiration, 2Temp, 2IBP
- Optional : **Standard** + 4Temp, 4IBP, ICO, EtCO2, 12CH EKG, Touch Screen, 3CH Printer

• Small size but large virtual screen

- 12.1" Monitor provides 72.6"(12.1" x 6) view effect by using 6 Virtual Screens.
- 10.4" Monitor provides 62.4"(10.4" x 6) view effect by using 6 Virtual Screens.



• Perfect 3CH ECG(Std.) and 12CH EKG(Opt.) will make you ECG analysis specialist.

- Livegraphy waveform by VOTEM's digital Filter Technology
- 3CH ECG(Std.) displays full 7 ECG waves & ST Segment analysis (Lead I, II, III, aVR, aVL, aVF, V)
- 12CH EKG(Opt.) displays full 12 ECG waves & ST Segment analysis (Lead I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6)
- 13 Arrhythmia analysis & Pacemaker detection (TAC, BRD, PVC, VTAC, ASY, BGM, TGM, VENT, VFIB, CPT, TPT, MIB, RonT)
- ST Segment analysis permits simultaneous viewing, adjustment, and monitoring 12 ECG leads. Adjustable ISO and J points, plus the ability to view both learned and averaged ST complexes provide exceptional flexibility.



7CH ECG Screen



12CH EKG Screen

• Multi high-end functions

Drug Dose calculation



helps you to manage total quantity of drug to be delivered to the patient over time.

ECG Recall and Analysis



Recall 20-seconds event data with graphic, and 2 seconds data can be zoomed to observe and analyze.

Mini-Trend



You can see 2hrs mini-trend data on the main screen.

ICO



You can measure Cardiac Output (CI, SV, SI, LVSW, LVSWI, RVSW, RVSWI, SVR, SVRI, PVR, PVRI)

Color Change



Selectable color configuration of waveform and numeral for all parameters up to 18 colors.

NIBP STAT



NIBP can be measured from 5 to 15 minutes automatically.

DXY-CRG



You can analyze patient's HR, SpO2, Resp., for each 0.3 second during 2 minutes.

Patient Information



You can store patient's admission date, ID, name, gender, date of birth, weight, and height.

Event Management



Saving and management of individual EVENT up to 20 cases in case of Arrhythmia.

"Experience the superiority of high-performance monitor"
 "You can get more and better than anything you have ever choiced before"

7days Graphic & tabular trend data save

- all parameters
- 10,080 sets(1set per minute) of virtual signs list data can be stored, reviewed, and printed out.



Trend Screen



Touch Screen

Touch Screen (Opt)

- Easy operating by using touch screen with reasonable price.



S/W upgrade Screen

Easy S/W upgrade by using SD Card (Max. 2Gbyte)

- You can upgrade s/w continuously without disassembling the product by using SD card.

Durable, and light Li-ion battery operation



- Std (1Pack) : 2hrs or more
- Opt (2Packs) : 4hrs or more
- 7.0 kg weight

ECG output (Opt)

- You can download and capture ECG analog signal for more analysis.



Valiable, and world best EtCO₂ module choice

<p>Orion.</p> <p>SMART Capnography™</p> <p>Micro Stream™ solution provides best measuring Technology. Easy to use, most effective interface. SMART Capnography and comprehensive Education support.</p>	<p>RESPIRONICS</p> <p>CAPNOSTAT S Mainstream CO₂ Sensor</p> <p>21st Century CO₂ Technology for main stream CO₂ measuring in critically ill, intubated patients.</p>	<p>RESPIRONICS</p> <p>LOFLO Side stream CO₂ Sensor</p> <p>21st Century CO₂ Technology for side stream CO₂ measuring in both intubated and non-intubated patients.</p>
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SPECIFICATION

VP-1200

General

Display

- 12.1 Inch (800 X 600)
- Up to 9 wave trace On/Off
- (3ch ECG, SpO₂, 4 IBP, Resp or EtCO₂)
- Full ECG 7 wave Display, (I, II, III, aVR, aVL, aVF, V)

Parameters

- ECG, SpO₂, NIBP, 4 IBP, Resp, 4 Temp, EtCO₂
- 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, ROMANIA, PORTUGAL,

Physical Dimension

- 290mm X 290mm X 175mm
- Weight : 7.0kg (include battery)

ICO (Option)

- CI, SV, SL, LVSW, LVSM, RVSW, RVSM, SVR, SVRI, PVR, PVRI
- Catheter : Swan-Ganz standard Thrombolition 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 (± 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 (PMF, PNC)
- Arrhythmia Detect : TAC, BRD, PVC, VTAC, ASY, BGM, TGM, VENT, VFIB, CPT, TPT, MB, RpnT
- ST Analysis : Range : -9.9mm ~ +9.9mm
- HR Calculation : Resolution : 0.1 mm
- 4~16 wave

SpO₂

- Range : 0 ~ 100 %
- Accuracy : 100 ~ 70% ± 2%
- 69 ~ 50% ± 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 : 4 ~ 150 rpm (± 2% or ± 2bpm)
- 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 : ± 1 %
- Catheter : Yuta, Biosensors International

TEMP

- Channel : 2 (Standard), 4(Option)
- Range : 0 ~ 50.0 °C
- Accuracy : 25.0 ~ 50.0°C ± 0.1°C
- 0 ~ 24.9 °C ± 0.2°C

EtCO₂ (Option)

- Measurement Mode : Orion's Microstream®
- RespiroNics Mainstream/Sidestream
- Range : 0 ~ 99 mmHg (0 ~ 9.9kPa / 0 ~ 9.9%)
- Resp Rate : 0 ~ 150 bpm

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Distributor ;

VO+TEM
 Network Patient Monitor System



The first story of "i-Prime" series VP-1200

- 12.1 inch (800x600) TFT Color LCD screen (max 9 trace)
- Full ECG 7 leads ST level Display, (Lead I, II, III, aVR, aVL, aVF, V)
- ECG 12 leads monitoring redefined and ST level display. (Option)
- Drug Dose, ECG Recall, Mini Trend, ICO, Color change, NIBP STAT, OXY-CRG, Patient Information
- Touch screen (Option), Li-Ion battery (2hrs., 4hrs. : Option)
- 7 days tabular and graphic trend data save
- ECG(3CH), SpO₂, NIBP, RESP, 4TEMP, 4IBP, EtCO₂, ICO



The Third story of "i-Prime" series VP-700

i-Tem series

VO-100

The Second story of "i-Prime" series VP-1000



- 7 inch (800x480) TFT Color wide LCD screen (max 7 trace)
- Full ECG 7 leads ST Level Display. (Lead I, II, III, aVR, aVL, aVF, V)
- Patient Information
- Touch screen (Option)
- 7 days tabular and graphic trend data save
- Li-Ion battery (3hrs.)



- Plethographic waveform display and up to 72 hours of patient trends.
- Using SD Card, you are able to easy upgrade your VO-100 firmware and save trend data (SpO₂, Pulse Rate)
- Menu icons for easy operation.
- Long battery life 12 hours. (Li-Ion battery)
- Trend View and print in PC.

Central Monitoring System VC-2000



- Simultaneous monitoring of up to 14 patients
- 7 days of graphical and numerical trend & event information.
- LAN and the wireless LAN connection.



- 10.4 inch (800x600) TFT Color LCD screen (max 9 trace)
- Full ECG 7 leads ST Level Display. (Lead I, II, III, aVR, aVL, aVF, V)
- ECG 12 leads monitoring redefined and ST level display. (Option)
- Drug Dose, ECG Recall, Mini Trend, ICO, Color Change, NIBP STAT, OXY-CRG, Patient Info.
- Touch screen (Option)
- 7 days tabular and graphic trend data save

SPECIFICATION

VP-1000

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- Range : 0 ~ 50.0 °C
- Accuracy : 25.0 ~ 50.0°C ± 0.1°C,
0 ~ 24.9 °C ± 0.2°C

EtCO₂ (Option)

- Measurement Mode : Drilon's Microstream®
- Respiration Mainstream/Sidestream
- Range : 0 ~ 99 mmHg (0 ~ 9.9kPa / 0 ~ 9.9%)
- Resp Rate : 0 ~ 150 bpm

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