

SPECIFICATIONS

General

Display

- 10.4"/12" (800 x 600)
- Up to 7, 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 (10EA)

- ECG, SpO₂, NIBP, 4 IBP, Resp, 4 Temp, EtCO₂, ICO
- HRV, APG detect analysis
- 2 IBP, 2 Temp, EtCO₂

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 (1 pack - 2 hours) (opt: 2 Pack - 4 hours)
- DC 12V (optional)

Thermal Printer (optional)

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

Trend

- Memory storage: 7 days (standard)
- Tabular & Graphic Data Interval: 1, 5, 15, 30 min and 1 hour
- Save up to 20 Event data

Language

- ENGLISH, FRENCH, SPANISH, GERMAN, ITALIAN, RUSSIAN, TURKISH, CZECH, ROMANIAN, PORTUGUESE (BRA), POLISH

Physical Dimension

- 280mm X 290mm X 175mm (11" x 11.5" x 63/4")
- Weight: 4.0Kg (9 lbs.) (without battery)

ICO (Optional)

- CI, SV, SI, LVSW, LVSWI, RVSW, RVSWI, SVR, SVRI, PVR, PVRI
- Catheter: Swan-Ganz standard Thermodilution pulmonary Artery Catheter (131HF7, 744hf75)
- Edward Lifesciences

Performance

ECG

- LEAD
 - 3 leads (Standard), 5 leads (Optional)
- Channel
 - 3 Channel: 3 leads / 7 leads (Full Display)
 - 12 Channel: 12 leads (Optional)
- 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: -9.9mm ~ +9.9 mm
 - Resolution: 0.1mm
- 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
 - 0.1% up to
 - Wave out Time: Max 2 sec,
- GAIN
 - 0.25, 0.5, 1, 2, 3, 4, Auto mm/mV
- Sweep Speed
 - 6.25, 12.5, 25, 50 mm/sec
 - Optional Massimo SpO₂ (external)

Respiration

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

NIBP

- Technique
 - Oscillometric
- Measurement Range
 - 0~300 mmHg
- NIBP STAT
 - 5~15 min
- NIBP VENOUS STAT
 - 50~200mmHg

IBP

- Channel
 - 2 (standard), 4 (optional)
- Range
 - 50~350 mmHg
- Accuracy
 - $\pm 1\%$
- Catheter
 - Yuta, Edward, Medex (Total 6 types)

TEMP

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

EtCO₂ (Optional)

- Measurement Mode
 - Range
 - Respironics Mainstream/Sidestream
 - Resp Rate
 - 0~99 mmHg (0~9.9kPa / 0~9.9%)
 - 0~150 bpm



Veterinary Monitor



- AAHA compliant data importability to any practice management software
- Print trends, reports or waves via internal printer or network printer
- Remote viewing possible anywhere in the world via Smart Care System

Multi Parameter Patient Monitor
for Veterinary Critical Care

Tel: 1-502-671-1014
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Veterinary Monitor

V 1410
V 1412



V 1410



V 1412



ACCESSORIES: SpO₂ Tongue Probe (1 ea), NIBP Hose (1 ea), Blood Pressure Cuff Type #2, #3, #4 (total 3 pieces), ECG Cable 3 Lead Type (1 ea), ECG Clips (3 ea), Temperature Sensor (Rectal Type-Pediatric) (1 ea), User's Manual (1 ea), Power Cord (1 ea)



Event Management Screen



Trend Data Screen



Simple ESN Screen



Large Numeric Screen



7Ch ECG Screen



Full Parameter Screen



iPad Options



*3G Wifi for Android & IOS Network or Internet connections

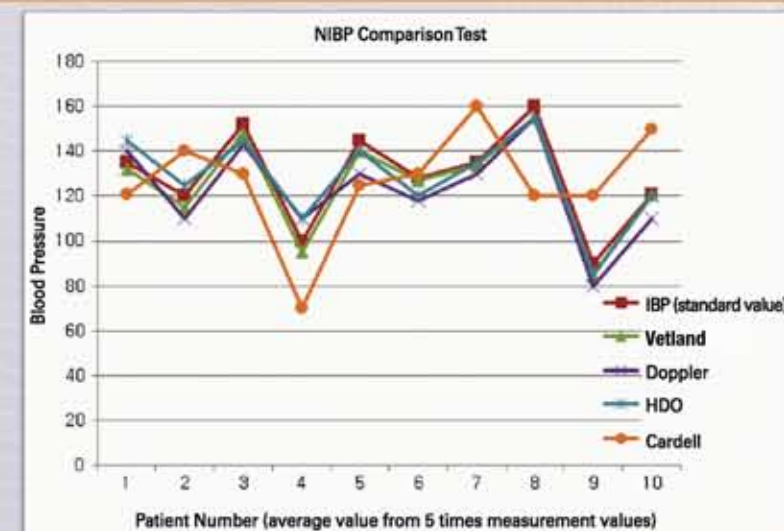
Multi Parameter Patient Monitor for Veterinary Critical Care

V 1410 V 1412

Standard: ECG (3CH) ■ SpO₂ ■ NIBP ■ RESP ■ 2TEMP ■ 2IBP ■ HR/PR ■ APG ■ HRV

Optional: EKG (12CH) ■ 4TEMP ■ 4IBP ■ ICO ■ EtCO₂ ■ Touch Screen ■ DC 12V
Multi-Gas PhaseIn AB; AX+, OR+ ■ VGA OUTPUT ■ MASSIMO SPO₂ TECHNOLOGY

- Versatile, portable-compact design
- Intuitive color display
- Validated Industries Best NIBP Technology with automatic & STAT modes
- Veterinary specific algorithms
- 12.1" (10.4") High resolution display (800x600) with maximum 10 waveforms
- Standard configurations: ECG, SpO₂, NIBP, Resp, 2Temp, 2IBP
- ECG- 3 lead with 5 filtering modes/ 4 sweep rates 6.5/12.5/25/50mm sec
- 6 Virtual screen display modes
- 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
- 7 days tabular & graphic trend data storage 10,080 data point/ 168 hours graphical trend of each parameter
- Patient information, NIBP VENOUS STAT, APG, HRV
- Touch Screen (Option)
- Easy software upgradability
- AC or Long Li-ion battery operation (1 Pack = 2 hours)
(2 Pack = 4 hours)
- LAN & wireless LAN connection to central station
- PhaseIn's Multi-gas mainstream (IRMA AX+), Sidestream (ISA AX+, OR+)
- Respronic's EtCO₂ module (optional) -Mainstream (C5), Sidestream (LoFlo)
- Remote viewing possible anywhere in the world via Smart Care System
- Designed & distributed by Vetland Medical Sales & Services, LLC - An American company



NIBP Comparison Test

- Blood Pressure was measured with 10 dogs under anesthesia weighing 5 to 25 Kgs
- After measuring 5 times, without using the highest & the lowest values into calculation, the intermediate 3 values were chosen into calculation
- When the blood pressure measured by IBP was set as a standard value, Vetland's V1410 & V1412 monitor shows the closest value.

(Source: A master thesis at the veterinary faculty of Kangwon National University)