



**Value** for your **Investment** in Medical **Electronics** & Healthcare **Solutions**

**VOITRON**  
VALUE TO HEALTHCARE SOLUTIONS

## About us

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Introducing VOITRON- **"VALUE ADDED PRODUCTS", adding value to health care solutions.**

VOITRON offers value for your Investment, by introducing products to you with:

- # Competitive prices
- # Value added features
- # High quality assurance
- # Strong service back-up
- # **Highest Warranty**

### **Our Flagship Brand:**

Voitron carries forward the strong legacy of over two decades of experience in winning over the trust and confidence of the healthcare fraternity, with the presence of its flagship company "M/S SILVERLINE MEDITECH PVT LTD" in 21 states in the country, and has received the patronage of valuable customers for its quality and service catering to

- # More than 2000 Dealers Network
- # More than 25,000 Healthcare Setups
- # More than 10 Major Govt. organizations

### **VISION: Value addition to your investments in Medical Electronics**

Voitron offers: VALUE for your investment in medical electronics & healthcare solutions

- # Quality assurance on each equipment with in accordance with international standard
- # Strong substantiation of its quality with **2 to 5 years warranty** on each equipment *\*Conditions apply*
- # Customer convenience & service with its "standby unit" supply during the service period *\*Conditions apply*
- # Competitive pricing as compared to the other **Major brands**

Voitron brings to your doorstep an effective product range :

1. Medical Equipment
  2. Hospital Furniture
- and more in near future...

**All our products are CE Certified**

## MODEL : V-20 | Patient Monitor ( Two Para )



### INTRODUCTION

V-20 is a patient monitor which can continuously monitor patient's NIBP (Non-invasive Blood Pressure) and SpO<sub>2</sub> (Oxygen Saturation in blood) under any clinical environment. V-20 monitor not only provides realtime data of NIBP (measured at regular intervals) & SpO<sub>2</sub> of patients but it can store these data which can be retrieved and reviewed at later stage for analysis purpose. A durable battery life makes V-20 monitor independent from external power source during mobility of patient OR during power outage.

### TECHNICAL FEATURES

2.8" high resolution TFT LCD display for plethysmograph, trend review & system menu.

3-digit 7-segment LEDs to display Numeric values of NIBP (Systolic, Diastolic & Mean Arterial Pressure), SpO<sub>2</sub> & Pulse Rate (PR).

#### SpO<sub>2</sub> :

Measurement Range : 0-100%

Accuracy :  $\pm 2\%$  for 70-100%;

Unspecified for 0-69%

Alarm Range : 0-100%

#### Pitch tone variation

#### PR :

Measurement Range : 30-250

bpm

Accuracy :  $\pm 2\%$  or  $\pm 2$  bpm

whichever is larger

#### NIBP :

Method : Oscillometric

#### Operating Modes :

Manual, Automatic & Continuous/Stat

#### Measurement Range :

10-270 mmHg (Adult)

10-200 mmHg (Pediatric)

10-135 mmHg (Neonate)

#### Accuracy :

$\pm 3$  mmHg

#### Auto mode interval :

1 ~ 255 min adjustable

### GENERAL FEATURES

- Compact & Portable Design
- Suitable for Adult, Pediatrics & Neonatal applications
- Separate displays for numeric values of parameters makes readings more noticeable from distance
- Up to 2000 storage entries for NIBP & 78000 SpO<sub>2</sub> readings
- Trend Review for 24 hours to trace patient's recovery
- Audio Visual alarms for High & Low NIBP (Systolic, Diastolic & Mean Arterial Pressure), SpO<sub>2</sub> & PR, Low battery, Probe off, etc
- Option to transfer Patient's data to Computer via USB Port.

#### Power Supply :

AC-DC Adaptor: Input: 220-240V AC;

Output: 9V – 4A

Battery: 7.4 V, 3700 mAh rechargeable

lithium battery

Battery Backup: Approx. 4 Hours

#### Physical Characteristics :

Machine Size: 240 (L) x 190 (W) x 162

(H) mm

Machine Net Weight: ~ 1.6 Kg

#### Optional :

- **NELLCOR** SpO<sub>2</sub>
- Temperature

## MODEL : V-70 | Patient Monitor ( Five Para )



### INTRODUCTION

V-70 is a multipara monitor designed for intensive care monitoring of patient. Basic configuration of V-70 monitor can monitor five vital parameters – ECG, NIBP (Non-invasive Blood Pressure), SpO2 (Oxygen Saturation in blood), Resp (Respiration Rate) & Temperature. In addition to the five paras, capability of V-70 monitor can be further enhanced by external plug-n-play modules which can monitor IBP (Invasive Blood Pressure) & EtCO2 (End-tidal Carbon Dioxide) separately.

### TECHNICAL FEATURES

#### ECG:

Lead modes : 3 lead OR 5 lead  
Lead Selection : I, II, III, aVR, aVL, aVF and V

#### Heart Rate Range :

Adult : 35-300 bpm  
Pediatric/Neonatal : 15-300 bpm

Accuracy :  $\pm 1$  bpm or  $\pm 1\%$

ECG Waveforms : 2- channel

ST Segment Detection –

Measurement Range :  
0.2 mV – 2.0 mV

#### SpO2 :

Measurement Range : 0-100%  
Accuracy :  $\pm 2\%$  for 70-100%;  
Unspecified for 0-69%  
Alarm Range : 0-100%

#### Pitch tone variation

#### PR :

Measurement Range: 20-254bpm, Accuracy:  $\pm 3$  bpm

#### NIBP :

Method : Oscillometric  
Operating Modes : Manual,  
Automatic & Continuous/Stat

### GENERAL FEATURES

- 12.1" color TFT display
- Comprehensive Alarm package with adjustable limits and Audio & Visual alerts
- Built-in rechargeable battery for un-interrupted monitoring of approx. 2 hours
- Full screen ECG waveforms to display 7 leads simultaneously
- 72 hours of trend storage with graphical & tabular form
- User configurable waveforms' & parameters' colors & positions
- User selectable screen layouts – Standard, OxyCRG, Trend, Big Char Screens
- Arrhythmia and ST Segment analysis
- Suitable for Adult, Pediatrics & Neonatal applications
- Option of networking to connect with Central Monitoring System

Automatic & Continuous/Stat  
Measurement Range : 10-270 mmHg

#### Respiration :

Adult : 0~ 120 breath/min  
Pediatric/Neonatal : 0~ 150 breath/min

**Temperature :** Range : 0 – 50 °C,  
Accuracy :  $\pm 0.1$  °C

#### Power Supply :

100-240V AC, 50/60 Hz

Battery : 7.4 V, 3700 mAh rechargeable lithium battery  
Battery Backup : Approx. 2 Hours

#### Physical Characteristics :

Machine Size : 319 (L) x 161 (W) x 269 (H) mm  
Machine Net Weight : ~ 3.6 Kg

#### Optional :

- IBP Module
- EtCO2 Module
- Printer
- Central Monitoring Software (wire / Wire less)
- **NELLCOR** SpO2
- VGA Output

## MODEL : Ventrion-3 | ECG Machine - 3 Channel



### INTRODUCTION

Ventrion-3 is a three channel ECG machine which can simultaneously record 12 leads of ECG and can print ECG report on a thermal printer. A built-in highly accurate interpretation algorithm can generate interpretation reports by analyzing recorded ECG waveforms which not only ease out the diagnostic procedure for general practitioners but also provides detailed analysis to cardiologist for further diagnosis and treatment.

### TECHNICAL FEATURES

3.5" color LCD slanted display for easy and comfort viewing

Leads: 12- leads : I, II, III, aVL, aVR, aVF & V1 – V6

Recording Speed :

Auto Record : 25 mm/s, 50 mm/s

Manual Record : 5, 10, 25, 50 mm/s

Rhythm Record : 25 mm/s, 50 mm/s  
Sensitivity : 5, 10, 20 mm/mV  
(Accuracy:  $\pm 5\%$ )

Recording Paper :

Thermal Paper roll {Size: 80 mm (w) x 20 m (L)}

Supported Printing Modes :

4\*3, 3\*4, 3\*4 + 1, 2\*6, 2\*6 + 1, 3-2, 3-2 + 1, Rhythm 2, Rhythm 3, Rhythm 4, manual mode

### GENERAL FEATURES

- Portable, Light weight and Ergonomic Design
- Built-in 3-channel thermal printer
- Simultaneous Acquisition & Display of 12 lead ECG
- Automatic, Manual & Rhythm modes
- Auto Interpretation
- Built-in Storage capacity of atleast 1000 ECGs (with patient's info) for data review and analysis purpose
- **With ECG Sync Software for Data Transfer and Print**

Measurement Parameters :

HR, P-R interval, P Duration, QRS Duration, Q Interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5) + S(V1)

Digital Filters : AC (50/60 Hz),

EMG (25/35 Hz) & DFT Filters

Frequency Response : 0.05 Hz – 150 Hz (-3 dB – 0.4 dB)

Time Constant : Time  $\geq 3.2$  s

CMRR :  $\geq 60$  dB,  $\geq 100$  dB (with all filters enabled)

Sampling Rate : 1000 Hz

Patient Leakage Current :  $\leq 10 \mu\text{A}$

Classification :

Class I. Type CF applied part

Input way :

Floating and defibrillation protection

Power Supply :

AC: 100 – 240 V AC, 50/60 Hz;

DC: 7.4 V, 3700 mAh rechargeable

lithium battery

Battery Backup:

Approx. 1.5 Hours (continuous printing)

Physical Characteristics:

Machine Size:

315 (L) x 215 (W) x 77 (H) mm

Machine Net Weight: ~ 1.7 Kg

## MODEL : VFlow 560 | Syringe Pump



### INTRODUCTION

Vflow 560 is a Syringe Infusion Pump intended for administration of intravenous drugs & medicine at pre-determined rate with high precision. VFlow 560 pump can support variety of syringe sizes from 10 ml to 50/60 ml with automatic syringe size detection.

### TECHNICAL FEATURES

Infusion Rate :

50/60 ml syringe:

0.1 to 999.9 ml/h (0.1 ml/h step) & 1000 to 1500 ml/h (1ml/h step)

30 ml syringe:

0.1 to 900.0 ml/h (0.1 ml/h step)

20 ml syringe:

0.1 to 600.0 ml/h (0.1 ml/h step)

10 ml syringe:

0.1 to 300.0 ml/h (0.1 ml/h step)

Flow rate accuracy : within  $\pm 3\%$  (after correct calibration)

Total Injection Volume : 0.1 to 9999.9ml (0.1 ml step)

Bolus Rate:

50/60 ml syringe: 1200 ml/h

30 ml syringe: 720 ml/h

20 ml syringe: 480 ml/h

10 ml syringe: 240 ml/h

Purge Rate:

50/60 ml syringe: 1500 ml/h

30 ml syringe: 900 ml/h

20 ml syringe: 600 ml/h

10 ml syringe: 300 ml/h

KVO Rate: 0.1 to 5 ml/h (0.1 ml/h step)

### GENERAL FEATURES

- Backlight LCD display
- Compatible with Syringe sizes from 10ml, 20ml, 30ml, 50/60ml
- Purge & Bolus functions to remove the air bubbles and quick dose
- Three levels of occlusion: High, Medium & Low
- KVO (Keep Vein Open) function to keep vein open for subsequent dose
- Audio & Visual alarms for occlusion, near empty syringe, empty syringe, low battery, AC power fail, etc
- Option to mount & stack multiple syringe pumps on IV poles

#### Occlusion :

High : 800 mmHg  $\pm$  200 mmHg (106.7 kPa  $\pm$  26.7 kPa)

Medium : 500 mmHg  $\pm$  100 mmHg (66.7 kPa  $\pm$  13.3 kPa)

Low : 300 mmHg  $\pm$  100 mmHg (40.7 kPa  $\pm$  13.3 kPa)

#### Power Supply :

AC : 100 ~ 240 V AC, 50/60 Hz;

DC : 11.1 V, 1600 mAh rechargeable lithium battery

Battery Backup : Approx. 4 Hours at rate of 5 ml/h for 50 ml syringe

#### Physical Characteristics:

Machine Size : 306mm (W)  $\times$  135mm (H)  $\times$  127mm (D)

Machine Net Weight : ~ 2.2 Kg

#### Optional :

- **Compatible with 5 ml syringe**
- Drug Library
- Dosage weight mode

## Coming Products...



**Biphasic Defibrillator**



**12 Channel ECG Machine**



**Fetal Monitor**



**Infusion Pump**



**Turbine Ventilator**



**Range of Hospital Furniture...**



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