Patient Monitor Range

A comprehensive range of patient monitors that combine high levels of sophistication with ease of use

- Powerful monitoring tools for every clinical department
- Low life costs
- Adult, paediatric and neonate monitoring on all models
- Affordable, multi-department, Central Monitoring System
- Battery backup
- Optional Masimo SET™ or Nellcor OxiMax™ SpO₂
- All models share the same intuitive user interface
- Full Penlon Service Support
SP M8 and M5 Patient Monitors

Power, Sensitivity and Flexibility

The SP Range is Penlon’s next generation of monitor for the most advanced applications

SP M8 Patient Monitor

- 17" TFT colour display with up to 12 waveforms
- Up to three additional displays
- Parameters: ECG, Respiration, NIBP, SpO₂, Temperature, IBP, CO, EICO₂, Multi-Gas/O₂, BIS, ICG, and RM
- Rechargeable Li-ion battery
- Up to 13 module slots available when used with the Satellite Module Rack
- Networkable as standard
- Optional wireless networking also available
- Prompt knob or optional touchscreen control
- Intelligent cooling system keeps the unit running quietly during use
- Separate indicator lights for technical and physiological alarms
- Optional memory card for increased data storage
- Rolling stand or wall mounted units available

SP M5 Patient Monitor

- 12.1" TFT colour display with up to 12 waveforms
- Lighter, more compact, with the same features

ECG

3/5-lead selectable or optional 12-lead ECG with eight hour data storage, ST Segment and Arrhythmia Analysis

IBP

Up to eight channels of Invasive Blood Pressure measurement

ICG

Impedance Cardiography for the management of patients with congestive heart failure, hypertension and pacemakers

Alarm Indicators
Separate indicator lights for technical and physiological alarms

Prompt Knob
Convenient interface control via prompt knob or optional touchscreen control
SP M8 and M5 Patient Monitors
Power, Sensitivity and Flexibility
The SP Range is Penlon’s next generation of monitor for the most advanced applications

Choose the parameters and modules to match your patient monitoring requirements
1. Select the MPM option from the table below
2. Select the Multi-Gas/O2 Module option from the table below (if required)
3. Select individual plug-in modules* (if required)
4. Calculate the number of slots required to mount your modules

NOTE Specify a Satellite Module Rack if the number of slots required is greater than five
*IBP can be incorporated into a MPM Module

* BIS can be incorporated into a Multi-Gas/O2 Module

Configuration and Options

| Main Unit | Integrated 17” (SP M8) or 12.1” (SP M5) colour TFT display and prompt knob with optional touchscreen control |
| MPM Module | See table opposite |
| Multi-Gas/O2 Module | See table opposite |
| Parameter Modules | See below |
| Satellite Module Rack | Eight slots |
| Navigation | USB compatible mouse, keyboard, Bluetooth presenter |
| Printing | Three channel thermal recorder module, printer |
| Mounting | Rolling stand, wall mount |
| Calculations | Drug, haemodynamic, oxygen, ventilation, nephritic |
| Other Options | External displays, wireless LAN, power-off storage and Compact Flash memory card |

1 MPM Module Options

<table>
<thead>
<tr>
<th>Parameter Modules</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
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</table>

2 Multi-Gas/O2/BIS Module Options

<table>
<thead>
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3 Parameter Modules

- Multi-Gas/O2
- Sidestream CO2
- BIS
- Microstream CO2
- Mainstream CO2
- Dual Channel IBP
- Multi-Gas/O2/BIS
- MPM
- CO
- RM
- ICG
- Satellite Module Rack
**PM-8000 Express**

**Portable Patient Monitor**

High specification, lightweight monitor with TFT colour display

- 8.4” TFT colour display with five waveforms
- Standard Parameters:
  - ECG (3 or 5 lead)
  - Respiration
  - Dual Temperature
  - NIBP
  - Standard SpO₂
- Optional Parameters:
  - Masimo SET™ or Nellcor OxiMax™ SpO₂
  - IBP
  - EtCO₂
- OxyCRG
- Arrhythmia and ST Segment analysis
- Haemodynamic calculations
- Up to two hours battery use
- Optional two channel strip chart recorder
- Optional wireless networking
- Optional trolley

**Colour Display**

8.4” TFT display with five waveforms and clear, easy to read numeric values

**OxyCRG**

Displays the relationship between heart rate, respiration and oxygen parameter for neonates and paediatrics

**User-friendly Menu**

Simple and clear, easy to learn and use

**Carry Handle**

Convenient handle for moving the unit around

**Rotary Knob**

Ensures accurate and prompt selection
PM-9000 Express
Portable Patient Monitor
State of the art, compact, portable monitor with a large TFT colour display

- 12.1" TFT colour display with eight waveforms
- Up to 96 hour graphic and tabular trends of all parameters
- Large font display
- SpO₂ pulse-tone modulation
- 12-lead ECG analysis
- Multi-Gas/O₂ with agent identification
- Optional Masimo SET™ or Nellcor OxiMax™ SpO₂
- Optional Li-ion rechargeable battery available
- Fixed compact flash for memory card or wireless LAN card
- Standard Configuration:
  - ECG, NIBP, Respiration, SpO₂, Dual Temperature, Lead Acid Battery
- Options:
  - 12-lead ECG, Dual IBP, Cardiac Output, EtCO₂, Multi-Gas/O₂, Thermal Recorder, Li-ion Battery, CF Card (for Wireless LAN or Power Off Storage)

12-lead ECG
Conventional 12-lead ECG technique to analyse I, II, III, aVR, aVF, V1-V6 and display these waveforms on the same screen

Multi-Gas/O₂ Waveforms
Adopting infrared absorption techniques to measure the concentration of EtCO₂, N₂O, O₂ and five anaesthetic gases (Des, Iso, Enf, Sevo, Hal)

EtCO₂ Waveform
Adopting infrared absorption technique to measure the concentration of EtCO₂, InsCO₂ and AWRR

Strip Chart Recorder
Provides high resolution hard copy print-out of waveforms, trends and other patient data. Two channel output, real time, alarm and review recording

Rotary Knob
Ensures accurate and prompt selection
**VS-800**

**Vital Signs Patient Monitor**

The VS-800 Vital Signs Monitor is suitable for adult, paediatric and neonatal patients

- Large colour display
- Integrated handle
- Up to 10 hours battery use
- High resolution LCD display
- Optional Masimo SET™ or Nellcor OxiMax™ SpO₂
- Adjustable alarms
- Storage and review of up to 1200 measured data parameters
- Data export facility for PC storage and printing
- Networkable via central monitoring station

**Hypervisor VI**

**Central Monitoring System**

Operates as a centralised viewing station for a single or multiple departments

- Network to Telemetry, VS-800, PM-8000 Express, PM-9000 Express, SP M8 and SP M5
- Dual-screen display as standard
- Three types of real-time reports:
  - Four user-selectable waveforms and all parameters
  - Multi-lead ECG waveforms and parameters
  - 12-lead ECG waveforms and parameters
- Up to 64 bedside monitors are connectable
- Display up to four waveforms and automatically save two waveforms for each patient
- Review the previous 720 alarm events for each bedside monitor
- Review a four hour dynamic short trend and 240 hours trend for each bedside monitor
- Multi-lead ECG waveforms and ST segment display
- 72-hour full-disclosure waveform store and review
- Patient database information can be viewed on screen or printed out
- Optional thermal recorder and A4 printer
Technical Specification

**SP M8 Patient Monitor**

### Technical Specifications

#### General Features
- **Display**: Large 12.1" colour VGA, upward facing
- **Power**: 200 W, 220 VAC
- **Dimensions**: 550 x 670 x 460 mm
- **Weight**: 20 kg

#### Monitoring Parameters
- **Systolic, Diastolic, Mean**: 0 – 300 mmHg
- **CO2**: 0 – 30%
- **CO**: 0.1 L/min
- **Blood Pressure**: Up to 8 channels, 12-lead display
- **Respiration**: Up to 5 waveforms displayed
- **EKG**: 3-leadwire cable: RA; LA; LL
- **EEG**: 6.25/12.5/25/50/100 μV

#### Performance Specifications
- **Humidity**: < 10 ml
- **Ambient Temperature**: 0 – 50°C
- **Rechargeable Li-ion battery**: ±1 bpm or ±1%, whichever is greater

#### Technical Details
- **Input Impedance**: > 50 MΩ
- **A/D Conversion**: Noise shaped
- **Differential Mode**: ±0.1°C

#### Battery Backup
- **Battery Type**: Rechargeable Li-ion
- **Battery Life**: 4 hours

#### Alarm System
- **Alarm/Tone**: 48 waveforms with additional displays
- **Alarm Range**: 0 – 99 mmHg
- **Alarm Accuracy**: ±1 bpm or ±1%, whichever is greater

#### Other Features
- **Software**: Patient Monitor
- **Protocol**: Double safety protection
- **Interface**: Ethernet, USB, RS-232

#### Dimensions and Weight
- **Height**: 200 cm
- **Width**: 55 cm
- **Depth**: 45 cm
- **Weight**: 20 kg

#### Technical Details (cont.)
- **Sample Rate**: 256 samples/second
- **Display**: 12.1" colour SXGA, supports up to three
- **Patient Monitor Range**: Power consumption (200 W, 220 VAC)

#### Compliance
- **EN**: 0 – 100%
- **NOM**: 0 – 100%
- **ISO**: 60601-1:2010
- **FDA**: 510(k)
- **CE**: 0 – 100%
Technical Specification

**SP M5 Patient Monitor**

**DIMENSION AND WEIGHT**
- Dimensions: 12.2 x 11.2 x 22.1 in (310 x 287 x 564 mm)
- Weight: 20 lb (9 kg)

**OPERATING ENVIRONMENT**
- Power: Universal (100-240 VAC, 50/60 Hz)
- Frequency: 2.5 – 1.4 A
- Temperature: -10°C to 43°C
- Humidity: 5 – 95% non-condensing
- Altitude: Up to 2,000 meters

**MONOMYOELECTRIC BLOOD PRESSURE (NIBP)**
- Modes: Manual/ Automatic/ Continuous
- Automatic Mode: Auto-adjust
- Pressure Measurement Range:
  - Systolic: 0 – 250 mmHg
  - Diastolic: 0 – 150 mmHg
  - Mean: 0 – 150 mmHg
- Accuracy: ±3% of reading

**INVASIVE BLOOD PRESSURE (IBP)**
- Channels: 2 Channels
- Pressure Measurement Range:
  - Systolic: 70 – 270 mmHg
  - Diastolic: 0 – 200 mmHg
  - Mean: 0 – 200 mmHg
- Accuracy: ±2% of reading

**NONINVASIVE BLOOD PRESSURE (NBP)**
- Modes: Manual/ Automatic/ Continuous
- Automatic Mode: Auto-adjust
- Pressure Measurement Range:
  - Systolic: 0 – 380 mmHg ±2 mmHg
  - Diastolic: 0 – 200 mmHg ±2 mmHg
  - Mean: 0 – 200 mmHg ±2 mmHg
- Accuracy: ±3% of reading

**HAEMODYNAMICS**
- Methods: Cardiac Output, Stroke Volume, Cardiac Output and Stroke Volume
- Range: 50 – 300 L/min
- Accuracy: ±3% of reading

**MEASUREMENTS**
- **Temperature**
  - Resolution: 0.1°C
- **Respiration Rate**
  - Resolution: 0.1 bpm

**MONITORING SENSORS**
- **ECG**
  - Waveform: Moe
  - Channel: 2 Channels
- **Respiration**
  - Filters: Sigma-Delta
  - Resolution: 0.1 mmHg
- **SpO2**
  - Resolution: 0.1% or 0.2% (whichever is greater)

**DISPLAY**
- Display: 12.1" Colour VGA, supports multi-platform, dual display
- Multifunction displays available
- Number of waveforms displayed: 2
- Screen resolution: 640 x 480

**SUPPORTS**
- **NIBP**
  - Systolic, Diastolic, Mean
- **SpO2**
  - 2.7 seconds (typical value), reaches ±5%
- **Respiration**
  - 1 – 100%
- **EEG**
  - BIS Smooth
  - Resolution: 0.1 mmHg

**SPECIFICATIONS**
- **RESPIRATION**
  - Accuracy: ±3% of reading
- **Cardiac Output**
  - Accuracy: ±3% of reading
- **Stroke Volume**
  - Accuracy: ±3% of reading

**APPLICATIONS**
- Neonatal: 0 – 120 BrPM
- Adult: 0 – 120 BrPM
- Paediatric: 0 – 120 BrPM

**APPLICATIONS - NIBP**
- Neonate: 0 – 150 BrPM
- Adult: 0 – 150 BrPM
- Paediatric: 0 – 150 BrPM

**APPLICATIONS - IBP**
- Neonate: 20 – 160 mmHg
- Adult: 20 – 210 mmHg
- Paediatric: 40 – 200 mmHg

**APPLICATIONS - SpO2**
- Neonate: 0 – 69 mmHg
- Adult: 0 – 69 mmHg
- Paediatric: 0 – 69 mmHg

**APPLICATIONS - Respiration**
- Neonate: 0 – 6 BrPM
- Adult: 0 – 6 BrPM

**APPLICATIONS - EEG**
- Neonate: 15 – 95% non-condensing
- Adult: 15 – 95% non-condensing

**APPLICATIONS - Display**
- Up to 5 waveforms displayed
- 6.25, 12.5, 25, 50 mm/s

**APPLICATIONS - Printer**
- External printer supported
- 297 x 336 x 187 mm (H x W x D)

**APPLICATIONS - Dimensions**
- 595 x 842 mm (Width x Height)
- 20 lb (9 kg)

**APPLICATIONS - Power**
- Universal (100-240 VAC, 50/60 Hz)
- Frequency: 2.5 – 1.4 A
- Temperature: -10°C to 43°C
- Humidity: 5 – 95% non-condensing
- Altitude: Up to 2,000 meters
### Technical Specification

**PM-8000 Express Patient Monitor**

#### Dimension and Weight
- **Dimensions:** 310 x 261 x 171 mm (H x W x D)
- **Weight:** ± 5 kg (including battery)

#### Operation Environment
- **AC:** 220 – 240 VAC (±10%), 50 / 60 Hz
- **DC-Power:** 12 VDC (Rated), 70 – 110 VDC, 70W
- **Temperature:** 0 – 40°C
- **Humidity:** 10 – 90%, non-condensing
- **Input isolation:** 4000 VAC, 50 Hz
- **DC-Battery Life:**
  - Neonate/Child: 0 – 150 BrPM (Default: lead II)
  - Adult/Paediatric: 70 – 100% ±2%

#### Specifications
- **Heart Rate Accuracy:**
  - Adult/Paediatric: 70 – 100% ± 2%
  - Neonate: 70 – 100% ± 3%
  - Accuracy: ±3 bpm (static)
- **Blood Pressure Accuracy:**
  - Neonate Mode: 20 – 230 mmHg
  - Neonate Mode: 10 – 95 mmHg
  - Adult Mode: 0 – 210 mmHg
  - Paediatric Mode: 40 – 270 mmHg

#### Microstream CO₂
- **Accuracy:**
  - 0 – 55 mmHg: ±5 mmHg
  - > 55 mmHg: ±10 mmHg
- **Response Time:**
  - < 2 seconds
- **Oximetry:**
  - **Sensor Accuracy:**
    - NELLCOR OXIMAX™ SPO₂:
      - (Motion) ±5 bpm
      - (Static) ±5 bpm
    - MASIMO SET™ SPO₂:
      - (Motion) ±5 bpm
      - (Static) ±5 bpm
- **Temperature:**
  - 30 – 40°C
- **Humidity:**
  - 20 – 80% RH
- **Input:**
  - DC Power: 12 VDC
- **Display:**
  - 8.4" colour TFT

#### Networking
- **Connectivity:**
  - 2-channel network
- **Network:**
  - 100 Base-TX
- **Printer:**
  - Printer Speeds: 25, 50 mm/s
- **Record Mode:**
  - Manual, On alarm, Rolling and refreshing waveform display
- **Record Width:**
  - 50 mm
- **Alarm Limit:**
  - 0 – 100%

#### Monitoring Parameters
- **SPO₂:**
  - Adult/Paediatric 70 – 100% ±3%
  - Neonate 70 – 100% ±3%
  - Accuracy: ±3 bpm (static)
- **Heart Rate:**
  - Adult/Paediatric: 70 – 100% ±3%
  - Neonate: 70 – 100% ±3%
  - Accuracy: ±3 bpm (static)
- **Blood Pressure:**
  - Neonate Mode: 20 – 230 mmHg
  - Neonate Mode: 10 – 95 mmHg
  - Adult Mode: 0 – 210 mmHg
  - Paediatric Mode: 40 – 270 mmHg
  - Accuracy: ±3 bpm (static)
- **Respiration:**
  - Adult/Paediatric: 70 – 100% ±3%
  - Neonate: 70 – 100% ±3%
  - Accuracy: ±3 bpm (static)

#### Optional Configurations
- **Oxygen Saturation:**
  - Nellcor Oxycliq P
  - Sensor Accuracy:
    - (Motion) ±5 bpm
    - (Static) ±5 bpm
- **Cuff Pressure:**
  - Systolic, Diastolic, Mean
  - Rate: 0 – 120 BrPM
  - Accuracy: ±3 bpm
- **Blood Pressure:**
  - ARM: 0 – 210 mmHg
  - Accuracy: ±3 bpm
- **Temperature:**
  - Range: 30 – 40°C
  - Accuracy: ±0.1°C

#### Rechargeable Lead Acid Battery
- **Rechargeable Lead Acid Battery:**
  - Working Time: 75 minutes (continuous)
  - Charging Time: 6.5 hours (maximum)
  - Work Time: 3 hours (continuous)
  - Charging Time: 6 hours (maximum)
- **Spiritual Range:**
  - 3 channels

#### Optional ECG Recorder
- **Network:**
  - 2-channel network
- **Display:**
  - 8.4" colour TFT
- **Alarm Limit:**
  - 0 – 100%
- **Input:**
  - DC Power: 12 VDC
- **Display:**
  - 8.4" colour TFT
**Technical Specification**

**PM-9000 Express Patient Monitor**

### DIMENSION AND WEIGHT
- **Dimensions:** 255 x 398 x 180 mm (W x D x H)
- **Weight:** 5.5 kg

### OPERATION ENVIRONMENT
- **Supply Voltage:** 100-240 V (50 Hz, 60 Hz)
- **Temperature:** 0°C to 50°C
- **Humidity:** 15% to 95% non-condensing
- **Patient Range:** Adult, Pediatric, Neonate

### RESPIRATION
- **Display:** 12.1” Colour TFT
- **Ramp and Resolution:** 0.1 mV, 0.05 mV
- **Sampling Line Length:** 7 inches
- **Gain Selection:** 6.25, 12.5, 25, 50 mm/s
- **Auto Measure:** Yes
- **Auto Measure:** Yes (static)
- **Resolution:** 1 bpm
- **Accuracy:** ±5 bpm (motion)
- **Accuracy:** ±5 bpm (motion)
- **Accuracy:** ±5 bpm (motion)
- **Accuracy:** ±5 bpm (motion)
- **Alarm Range:** 50/60 Hz (±3Hz), 140 VA
- **Response Time:** < 7.5 ms (rising from 10% to 90%)
- **Resolution:** ±5%

### THERMAL IMAGES
- **Alarm Range:** 41 – 76 mmHg ±5% of reading
- **Alarm Range:** 0 – 150 bpm
- **Alarm Range:** 41 – 76 mmHg ±5% of reading
- **Alarm Range:** 0 – 150 bpm
- **Alarm Range:** 41 – 76 mmHg ±5% of reading

### RESPIRATORY
- **Alarm Range:** 25 – 240 bpm
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### RESPIRATION THERMAL IMAGES
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### RESPIRATION THERMAL IMAGES
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### Technical Specification

**VS-800 Vital Signs Monitor**

**Dimension and Weight**
- Dimensions: 240 x 170 x 170 mm (H x W x D)
- Weight: 3.3 kg (including battery)

**Operation Environment**
- Power: 90 – 240 VAC (±10%), 50/60 Hz
- Temperature: 0 – 40°C
- Humidity: 0 – 100%, non-condensing

**Patient Range**
- Adult, Paediatric and Neonate

**Display**
- 7-segment LCDs for Sysolic, Diastolic, Mean pressures, SpO2 and Pulse Rate
- 80 mm (14") PFT LCD
- Resolution: 320 x 190
- Pitch: 0.24 x 0.24 mm
- Trace: Single channel waveform
- Swee Speed: 25 mm/s

**Indicator**
- Alarm indicator
- Battery indicator
- Pulse tone modulation

**Interface**
- Network port, Nurse Call interface

**Network**
- LAN, Ethernet, USB Ports
- 1 x RJ-45 Network Interface
- 1 x Mouse Interface
- 1 x Sound Output Interface
- 1 x Mic Input Interface
- 1 x Alarm Interface

**Operational Environment**
- Temperature: -10°C to 50°C
- Humidity: 0% to 80% non-condensing

**Power**
- Input: 90 – 240 VAC (±10%), 50/60 Hz
- Output: DC 12 V

**Specifications**
- PR Accuracy: ±3 bpm
- SpO2 Accuracy: ±2%
- Light Transmissivity: > 95%
- Resolution: 1280 / 2560 x 1024
- No. of Displays: 1 or 2
- Colours: 65536
- Print Speed: 25 mm/s
- Swee Speed: 25 mm/s
- Record Width: 48 mm
- Paper Width: 50 mm
- Record Mode: Single waveform
- Trace: Multi-leads ECG waveform display

**Technical Features**
- Real-time alarm
- Alarm strip
- Freeze waveform
- 16 second real-time
- Waveform freeze
- OxyCRG display
- Multi-lead ECG waveform display
- ECG (I, II, III, aVR, aVL, aVF, V1-V6), NIBP, IBP, SpO2, PR, Temperature, Multi-Gas, O2, N2O
- Colours: 65536
- Resolution: 1280 / 2560 x 1024
- No. of Displays: 1 or 2
- Colours: 65536
- Print Speed: 25 mm/s
- Swee Speed: 25 mm/s
- Record Width: 48 mm
- Paper Width: 50 mm
- Record Mode: Single waveform
- Trace: Multi-leads ECG waveform display

**Patient Monitor Range**
- Temperature: 0 – 100%
- Humidity: 0 – 100%
- Adult Mode: 10 – 270 mmHg
- Range: 40 – 240 bpm
- Built-in, Thermal Array
- 0 – 100%
- Network port, Nurse Call interface
- 0 – 100%
- Adult, Paediatric and Neonate
- 720 Measurements for each bedside monitor
- 0 – 40°C
- External Thermal Array
- Flexible database lists trend for review
- Direct sequence spread spectrum
- 12.5, 25, 50 mm/s (User Adjustable)
- 72 hours of 64 channels full-disclosure
- mmHg / kPa selectable
- ECG (I, II, III, aVR, aVL, aVF, V1-V6), NIBP, IBP, SpO2, PR, Temperature, Multi-Gas, O2, N2O
- Colours: 65536
- Resolution: 1280 / 2560 x 1024
- No. of Displays: 1 or 2
- Colours: 65536
- Print Speed: 25 mm/s
- Swee Speed: 25 mm/s
- Record Width: 48 mm
- Paper Width: 50 mm
- Record Mode: Single waveform
- Trace: Multi-leads ECG waveform display

**Hypervisor VI**

**Dimension and Weight**
- Dimensions: 28 x 44 x 44 cm (W x D x H)
- Weight: 13.9 kg

**Operation Environment**
- Power: 100 – 240 VAC, 50/60 Hz
- Configuration:
  - 17" Colour TFT Display
  - Intel Pentium IV – 2.8 GHz CPU
  - 256 MB RAM – 4 GB Hard Drive
  - USC-18 Network Interface
  - 1 x Serial Port
  - 2 x Parallel Port
  - 2 x USB Ports
  - 1 x Keyboard Interface
  - 1 x Mouse Interface
  - 1 x Sound Output Interface
  - 1 x Mic Input Interface

**Performance Specifiers**
- Display: 17" Colour TFT
- Resolution: 1280 x 1024
- colours: 65536
- Waveform: ECG (I, II, III, aVR, aVL, aVF, V1-V6), IBP, SpO2, PR, Temperature, Multi-Gas, O2, N2O
- Parameter: HRR, ST, I, II, III, aVR, aVL, aVF, V1-V6, HR, PPG, NIBP, SPiO2, PR, TEMPi, TB, EtCO2, Multi-Gas, O2, N2O

**Technical Features**
- Trace: 50 waveforms
- Sweep Speeds: 12.5, 25, 50 mm/s (User Adjustable)
- Alarm: 3-level Audible and Visual Alarm
- Parameter Alarm
- Arrhythmia: Yes

**Alarm**
- PR: ±3 bpm
- SpO2: ±2%
- Light Transmissivity: > 95%
- Resolution: 1280 / 2560 x 1024
- No. of Displays: 1 or 2
- Colours: 65536
- Print Speed: 25 mm/s
- Swee Speed: 25 mm/s
- Record Width: 48 mm
- Paper Width: 50 mm
- Record Mode: Single waveform
- Trace: Multi-leads ECG waveform display

**Power**
- Input: 100 – 240 VAC, 50/60 Hz
- Output: DC 12 V

**Conclusion**
- Real-time alarm
- Alarm strip
- Realtime alarm
- Realtime continuous waveform
- Realtime waveform
- Realtime alarm

**Configuration**
- Redundant coverage
- 10 Base-T Ethernet

**Network**
- Type: Ethernet
- Protocols: TCP/IP

**Cabling**
- Protocol: WAVLAN

**ACCESS POINTS**
- Monitors: VS M8, VS M5, VS-800 and Telemetry
- Patients: PM-8000 Express, PM-9000 Express, PM-1000 Express, PM-2000 Express
- Capacity: Up to 10,000 monitor monitors

**MODES**
- Manual
- Automatic

**Indication**
- No indication

**Channels**
- 1 x Mic Input Interface
- 1 x Sound Output Interface
- 1 x Mouse Interface
- 1 x Keyboard Interface
- 1 x Network Interface
- 1 x USB Port

**Sensors**
- MAX-R, D-YSE, D-YS, DS-100A, Sensors
- OxiCliq P and OxiCliq I, Sensors
- MAX-FAST, MAX-I and MAX-A, MAX-AL, Sensors
- Compatible

**Options**
-Selectable Configuration
- With Lead Acid Battery

**Sensors**

**PR Accuracy**: ±3 bpm
- NIBP + Nellcor OxiMax™ SpO2
- SpO2 Accuracy: ±2%
- Light Transmissivity: > 95%
- Resolution: 1280 / 2560 x 1024
- No. of Displays: 1 or 2
- Colours: 65536
- Print Speed: 25 mm/s
- Swee Speed: 25 mm/s
- Record Width: 48 mm
- Paper Width: 50 mm
- Record Mode: Single waveform
- Trace: Multi-leads ECG waveform display

**PR Accuracy**: ±3 bpm
- Nellcor OxiMax™ SpO2

**SpO2 Accuracy**: ±2%
- Light Transmissivity: > 95%
- Resolution: 1280 / 2560 x 1024
- No. of Displays: 1 or 2
- Colours: 65536
- Print Speed: 25 mm/s
- Swee Speed: 25 mm/s
- Record Width: 48 mm
- Paper Width: 50 mm
- Record Mode: Single waveform
- Trace: Multi-leads ECG waveform display

**SP Accuracy**: ±2%
- Light Transmissivity: > 95%
- Resolution: 1280 / 2560 x 1024
- No. of Displays: 1 or 2
- Colours: 65536
- Print Speed: 25 mm/s
- Swee Speed: 25 mm/s
- Record Width: 48 mm
- Paper Width: 50 mm
- Record Mode: Single waveform
- Trace: Multi-leads ECG waveform display