



# V10 Vital Signs Monitor

Flexibility and Performance for your Primary Care needs

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Our new V10 Vital Signs Monitor combines a vast range of configurations and technology options with a highly readable display and full network connectivity and data management.

It can be used for reliable and efficient Vital Signs Monitoring in all hospital areas, for hospital transport, in all hospital-type facilities and ambulances.

The clearly structured and bright LED display allows clear readings even from great distance.



Alarm light indicator  
Hand-grip for easy transport



5 level battery indication

- Green (Full to ≤ 2/3)
- Green (2/3 to ≤ 1/3)
- Green (1/3 to ≤ Low)
- Amber (Low)
- Red (Critical Low Flashing)



Thermal printer

Mini USB-Data transfer to PC for data Management SW

USB Port for SW Upgrade & Barcode reader

LAN (Wi-Fi available) for HL7-ready, ASCII out put & Nurse call

Temperature cover mounting

SpO2 connector

NIBP connector

## Features

- Large, bright and Easy-to-read Numerical Displays
- NIBP technology from AND
- SpO2 options Mediana SpO2 or Nellcor Oximax
- 2 Temperature Options :
  - Covidien Genius™ 2  
Most fast & accurate with 1~2sec' data acquisition
  - Alaris Turbo  
Self-test, auto-calibration, most used temp solution for emergency medicine, oral, rectal, axillary application
- 3 Li-ion battery options: 2, 5, 8 hours (NST)
- HL7, ASCII Data Output for HIS / EMR
- Data transfer for Monitoring Mode and Service Mode
- Barcode scanner support
- USB, LAN and Wifi connectivity
- Internal Data Storage: 2000 patient data
- Data Management Software for trend review

## Various modes - Temperature Options



## Easy to use hardware design

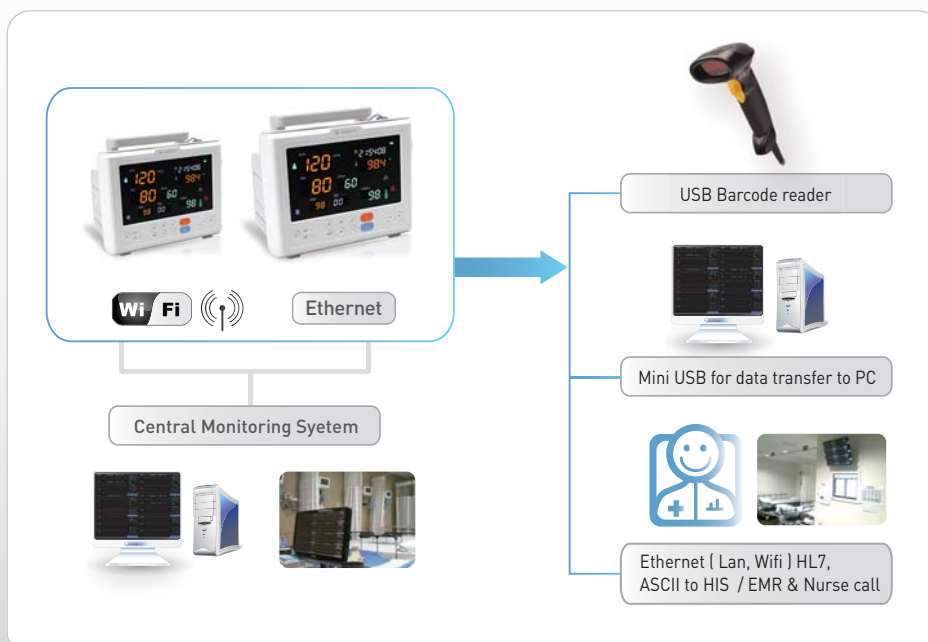
### Easy detachable battery



### Wall mount



## Networking



### Mobile cart



# Specifications of V10 Vital Signs Monitor

## General

AC Power : 100V ~ 240V, 50Hz/60Hz  
Battery : Max. 9cell Lithium-ion battery packs. 10.8V, 6600mA. 8 hours operation.  
Operation temperature : 5°C ~ 40°C  
Storage Temperature : -20°C ~ 60°C  
Humidity : 15 to 95% relative humidity, non-condensing

## Display

Screen type : FND module (more larger than YM1000 LED)

## V10 Configuration

Reference no.	Description
V10M-0	V10 Standard [7 segment LED + NIBP]
V10M-0P	V10 Standard [7 segment LED + NIBP] + Printer
V10M-0C	V10 Standard [7 segment LED + NIBP] + Mediana SpO2
V10M-0N	V10 Standard [7 segment LED + NIBP] + Covidien SpO2
V10M-0PC	V10 Standard [7 segment LED + NIBP] + Mediana SpO2 + Printer
V10M-0PN	V10 Standard [7 segment LED + NIBP] + Covidien SpO2 + Printer
V10M-0R	V10 Standard [7 segment LED + NIBP] + Turbo Temp thermometer
V10M-0Z	V10 Standard [7 segment LED + NIBP] + Genius 2 thermometer
V10M-0PR	V10 Standard [7 segment LED + NIBP] + Turbo Temp thermometer + Printer
V10M-0PZ	V10 Standard [7 segment LED + NIBP] + Genius 2 thermometer + Printer
V10M-0CR	V10 Standard [7 segment LED + NIBP] + Mediana SpO2 + Turbo Temp thermometer
V10M-0CZ	V10 Standard [7 segment LED + NIBP] + Mediana SpO2 + Genius 2 thermometer
V10M-0NR	V10 Standard [7 segment LED + NIBP] + Covidien SpO2 + Turbo Temp thermometer
V10M-0NZ	V10 Standard [7 segment LED + NIBP] + Covidien SpO2 + Genius 2 thermometer
V10M-0LN	V10 Standard [7 segment LED + NIBP] + TCP/IP LAN + Covidien SpO2
V10M-0WN	V10 Standard [7 segment LED + NIBP] + WIFI + Covidien SpO2

## Recorder

Paper : 50mm thermal paper  
Speed : 25mm/s  
Number of trace : 1 waveform(SpO2)  
Printing format : Real time Printing, Trend data printing.  
Automatic function : Auto printing by alarm or NIBP, Temp measurement.

## SpO2 – Nellcor (Connery1)

Pulse rate range : 20 ~ 300 BPM  
Pulse rate accuracy :  $\pm 3$  BPM (20bpm ~ 250bpm)  
SpO2 range : 1 ~ 100 %  
Low Perfusion : 0.03 to 20 %  
Accuracy : Without Interference - Adult 70 to 100 %  $\pm 2$  digits, 1 to 69 % unspecified  
With Interference - Adult 70 to 100%  $\pm 3$  digits, 1 to 69% unspecified  
Low Perfusion - 70 to 100 %  $\pm 2$  digits, 1 to 69 % unspecified

## SpO2 – Mediana (MD1)

Pulse rate range : 20 ~ 300 BPM  
Pulse rate accuracy :  $\pm 2\%$  or 2BPM, whichever is greater  
SpO2 range : 1 ~ 100 %  
Accuracy : Without Interference - Adult 70 to 100 %  $\pm 2$  digits, 1 to 69 % unspecified

## User Interface

Buttons : Power On/Off, Audio alarm pause, NIBP Start/Stop, Print, Alarm setting  
NIBP Interval setting, Review, Patient ID cancel, Mode selection button.  
Barcode Reader (Optional) : USB type ,Patient ID reading.

## NIBP – AND

Technique : Oscillometric Measurement  
Measurement Modes : MANUAL, AUTO and CONT  
NIBP AUTO Mode Intervals - Off, 1, 2, 3, 4, 5, 10, 15, 30, 45, 60, 90, 120, 240 minutes  
Measurement Range - Adult/Pediatric SYS 40 to 270 mmHg  
DIA 20 to 200 mmHg  
Neonatal SYS 40 to 120 mmHg  
DIA 20 to 90 mmHg  
Pulse Rate Range: 30 to 240 BPM  
Pulse Rate Accuracy :  $\pm 2$  BPM or  $\pm 5\%$ , whichever is greater

## Temperature

### Covidien Genius 2

Measurement Type : Ear, Oral, Core, Rectal  
Accuracy :  $\pm 0.1^\circ\text{C}(\pm 0.2^\circ\text{F})$  ; 36.7 ~38.9°C(98.1F~ 102F) - Ambient Temperature: 25°C(77F)  
 $\pm 0.2^\circ\text{C}(\pm 0.4^\circ\text{F})$  ; 33 ~42°C(91.4F~ 107.6F) - Ambient Temperature 16~33°C(60.8F~91.4F)  
Measurement Response Time : 2 seconds  
Measurement Range: 33°C ~ 42°C (91.4°F ~ 107.6°F)

### Alaris TurboTemp

Measurement Type : Oral, Rectal (Predictive/ Monitor)  
Measurement Range : Predictive Mode : 35.6°C ~ 41.1°C(96F ~106F)  
Monitor Mode : 26.7°C ~ 42.1°C  
Accuracy :  $\pm 0.3^\circ\text{C}(\pm 0.5^\circ\text{F})$  <35.8°C  
 $\pm 0.2^\circ\text{C}(\pm 0.3^\circ\text{F})$  35.8~36.6°C  
 $\pm 0.1^\circ\text{C}(\pm 0.2^\circ\text{F})$  36.7~38.9°C  
 $\pm 0.2^\circ\text{C}(\pm 0.3^\circ\text{F})$  39.0~41.1°C  
 $\pm 0.3^\circ\text{C}(\pm 0.5^\circ\text{F})$  >41.1°C  
Measurement Time: 0 ~ 60 seconds (Predictive mode)

## Alarms

Physiological Alarm NIBP systolic, diastolic, MAP, Pulse rate limit violation  
%SpO2, pulse rate limit violation, Temperature limit violation  
Technical Alarm Measurement failure and SpO2, Temperature, NIBP technical alarm

## Data Storage

Total 2000 patient data.  
Saved Data : Patient ID, Date and time, NIBP sys/Map/dia/pulse rate, %SpO2, pulse rate, Temperature, alarm condition.

## Power/Battery

Battery Operation Time : (NIBP measurement per 15min)  
Standard (NIBP) – over 9 hours  
Optional (NIBP + SpO2) – over 9 hours  
Optional (NIBP + SpO2 + Temp) – over 8 hours  
Low and Critical low battery Alarm  
AC power : 100~240Vac, 50/60Hz

## Data Output

Data format : HL7-ready, ASCII, Excel file  
Output port : USB  
Data type : Real-time output and Trend dump  
Optional communication module : Wired LAN, Wireless(Wi-Fi)

## Others

RoHS II compliance  
Nurse call port : Normal Open and Normal Close  
Optional Roll stand.  
Data management Program (TBD)



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