OMNIVIEW CENTRAL MONITORING SYSTEM SPECIFICATIONS:

MAIN FRAME
Power Supply
AC100-240V 6A/3A
Basic Configuration
20" or larger color display
Intel Pentium IV2.0G CPU
Windows XP professional operating system
512MB RAM
80GB Fixed Disk drive
PERFORMANCE
Display
Size: color TFT display 20" or larger
Number of display: 1 or 2 sets (optional)
Resolution: 1280 x 1024
Waveform
ECG (I, II, III, aVR, aVL, aVF, V1-V6)
PLETH, RESP, CO$_2$, IBP, Multi-gas

Parameter
HR, ST, NIBP, IBP, SpO$_2$, PR, RR, TEMP, EtCO$_2$, Multi-gas
Indicator
Up to 32-waveform presentation
12.5mm/s, 25.00mm/s, 50.00mm/s user-adjustable sweep speed
Alarm sound
Alarm
High and Low limits alarm
Audiable and visual alarm
Record Type
8 seconds real-time recording
Freeze waveform recording
Trend data recording
Alarm strip recording
Printer
External Laser Printer

View
Up 64 waveforms for up to 32 bedside monitors
 (8 monitors per screen)
All waveform presentation for single patient
48 hours of trend display for all parameters
Multi-leads ECG waveform display
Waveform freeze
Wireless Networking
Industry standard 802.11b/g WLAN
Connected bedside number: up to 16 bedside monitors
Review
240 hours trend review for each bedside monitor
720 items parameters alarm review for each bedside monitor
720 NIBP measurements review
72 hours of 32 channels full-disclosure waveforms
 store and review
Connection methods
Wireless via transmitter
Hardwired via ethernet
Hardwired via RS-232

OMNI EXPRESS TECHNICAL SPECIFICATIONS:

PEFORMANCE SPECIFICATIONS
Display: 7" color TFT
Resolution: 1024×860
Trace: 2 or 3 waveforms
Waveforms   ECG(I, II, III, aVR, aVL, aVF, V1-V6),
                  PLETH, RESP, ETCO2
Indicator: Alarm indicator
                  Power indicator
                  QRS beep and alarm sound
Trend time: From 30 minutes to 72 hours

ECG
Input: 5 lead or 3 lead ECG cable and standard
                  AAMI line for connection
Lead Choice: I, II, III, aVR, aVF, aVL, V
Gain Choice: ×0.5, ×1.0, ×2.0
CMRR (common mode
rejection ratio): >100 dB at 50 Hz or 60 Hz
Frequency Characteristic: 0.67~40 Hz (+3dB attenuation)
ECG Waveforms: 7 channels
Sweep Speed: 12.5, 25 and 50 mm/s
HR Display Range: 30~300bpm
Accuracy: ±1bpm or ±1%, whichever is greater
Alarm Limit Range Upper limit: 80~400bpm
                  Lower limit: 20~150bpm

RESPIRATION
Measure Method: RA-LL impedance
Range: 0~120 rpm
Accuracy: ±3 rpm
Alarm Upper-lower Limit: Upper limit: 6~120 rpm,
                  Lower limit: 3~120 rpm
Sweep Speed: 12.5 and 25mm/s

NIBP
Measuring Technology: Automatic oscillating measurement
Cuff Inflating: <30s (0~300 mmHg, standard adult cuff)
Measuring Period: AVE<40s
Mode: Manual, Auto, STAT
Measuring Interval in
AUTO Mode: 2 min~4 hrs
Pulse Rate Range: 30 bpm~250 bpm
Measuring Range: Adult/Pediatric Mode
                  SYS   40~250 (mmHg)
                  DIA   15!200 (mmHg)
                  Neonatal Mode
                  SYS   40!135 (mmHg)
                  DIA   15!100 (mmHg)
Resolution: 1mmHg
Pressure Accuracy: Maximum Mean error: ±5mmHg
                  Maximum Standard deviation: 8mmHg
Overpressure Protection: Adult Mode   280(mmHg)
                  Neonatal Mode   150 (mmHg)
Alarm Limit: SYS 50~240 mmHg
                  DIA 15~180 mmHg

TEMPERATURE
Range: 25~50 (ºC)
Accuracy: ± 0.2 ºC (25.0~34.9 ºC)
                  ± 0.1 ºC (35.0~39.9 ºC)
                  ± 0.2 ºC (40.0~44.9 ºC)
                  ± 0.3 ºC (45.0~50.0 ºC)
Display Resolution: 0.1 ºC
Alarm Upper-lower Limit: Upper limit 0~50 ºC
                  Lower limit 0~50 ºC
Channel: 1 channels
Alarm Limit: 10~50 (ºC)

Masimo SET Pulse Oximetry (standard) SpO2
Measurement range: 0% to 100%
Resolution: 1%
Accuracy:
Accuracy: 70% to 100%, +/-2%, Adult/
                  Pediatric, Non-motion conditions
                  70% to 100%, +/-3%, Neonate, Non-
                  motion conditions
                  70% to 100%, +/-3%, Adult/
                  Pediatric/Infant/Neonate, Motion
                  conditions
                  70% to 100%, +/-2%, Adult/
                  Pediatric/Infant/Neonate, Low
                  perfusion conditions
Averaging time: 2~4 sec, 4~6 sec, 8 sec, 10 sec, 12
                  sec, 14 sec, 16 sec (user selectable)
Sensitivity settings: Normal, Maximum, APOD (user
selectable)
Pulse Rate
Measurement range: 25 to 240 bpm
Accuracy: +/-3 bpm, Adult/Pediatric/Infant/
                  Neonate, Non-motion conditions
                  5 bpm, Adult/Pediatric/Infant/
                  Neonate, motion conditions
Resolution: 1 bpm
Perfusion Index (PI)
Measurement range: 0.02 – 20%
Any other SpO2 (optional)

EtCO2 (OPTION)
Mode of Sampling: Sidestream or Mainstream
Principle of Operation: Non-dispersive infrared (NDIR) single
                  beam optics, dual wavelength,
                  no moving parts.
CO2 Measurement Range: 0 to 150 mmHg (0 to 19.7%, 0 to 20 kPa)
CO2 Calculation Method: BTPS (Body Temperature Pressure
                  Saturated)
CO2 Resolution: 0.1mmHg (0-69mmHg),
                  0.25mmHg (70-150mmHg)

CO2 Accuracy: 0~40 mmHg ± 2 mmHg
                  41~70 mmHg ± 5% of reading
                  71~100 mmHg ± 8% of reading
                  101~150 mmHg ± 10% of reading
                  Above 80 breath per minute ± 12% of reading
Sampling Rate: 100Hz
Respiration Rate: 2~150 bpm
Respiration Rate Accuracy: ±1 breath
Response Time: <3 seconds - includes transport time
                  and rise time
Inspired CO2
Measurement Range: 3~50 mmHg
NETWORKING
Wired Networking: Industry standard: IEEE 802.3
                  wired network
                  Connected bedside number:
                  Up to 16 bedside monitors
                  RJ45 interface or RS232 serial port
Wireless Networking: Up to 100m indoors
                  Frequency Range: 2.412~2.484 GHz
                  Industry standard 802.11b/g wireless
                  Supports TCP/IP and UDP/IP Protocols

POWER
Source: External AC power and internal battery
AC Power: 100~240VAC, 50/60Hz, 150VA
Battery: Rechargeable Lead-Acid
                  Type: FB 1223 12v-2.3Ah
                  Operating time under normal
                  condition: 3 hour
                  Operating time after the first alarm of
                  low battery: 10 minutes
                  Manufacturer: Pilot Battery Co.,Ltd.
Charge Time: 4 hours
Operating Time: 3+ hour
ENVIRONMENTAL SPECIFICATIONS
Temperature: Operating: 5~40 °C
                  Storage: -10~45 °C
Humidity Range: Operating: ≤80 %
                  Storage: ≤80 %

RECORDER (OPTION)
Record Width: 48 (mm)
Paper Speed: 25 (mm/s)
Print Data: 3 waveforms with patient info
                  and digital values
FUSE   T 3.0A