Modular Patient Monitors

A8/A6

 MODULES 3

Modular Patient Monitors
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- Global-leading all-in-one module with display and built-in battery.
- 17” /14” (A8/A6) anti-glare color TFT-LCD display.
- Powerful measurement, ergonomic and flexible design.
- Can connect independent large display when multi-display is required.
- Fanless cooling-down system, keep the monitor working quietly.
- Dozens of parameters with various modules assembled as demand, easy upgrade, save replacement cost.
- Distinguished scientific and technological temperament, enhance the overall image of hospital.

A8/A6

Clinical mounting solutions

Wall mount
Rolling stand
- Multi-screen, multi-interface display.
- Each screen can display user defined different parameters, to assure real-time monitoring entire data.

Connect to the central monitoring system in wired or wireless.
EMS
Emergency Mobile Server

Size and Weight
- Size: 160mm × 99mm × 71mm
- Weight: ≤ 0.6kg

Display
- 3.5" Color TFT-LCD; Resolution: 320 × 240 pixels
- Waveform: Up to 12 tracks

Battery
- Type: 3.7V/1800mAh Rechargeable lithium ion battery
- Operating time: ≥ 60 minutes
- Charging time: Standby state: ≤ 6 h
- Turn off delay: 5 to 10 minutes after the low battery alarm first occurs.

- Standard Interface: HR, SpO2, NIBP, RESP, TEMP, and waveform of ECG, SpO2, RESP.
  (ECG waveform available for concatenation)
- Bigfont interface: HR, SpO2, NIBP, 1 channel ECG waveform.
- User defined interface: 3 basic parameter + 1 Blood Pressure parameter, 1~3 channel waveform
- Arrhythmia analysis and ST analysis.
- Simultaneous display of 7 / 12lead ECG in one screen
- Independent physiological alarm light and technical alarm light.

Clinical mounting solutions: Can assemble on Bedrail, I.V. stand, Wall mount; Rolling stand.
- Seamless transport solution, Fully meet the clinic demand,
- Providing fast and convenient monitoring during patient transfer with display, battery, alarm and storage capability,
- Patient’s data transferring automatically when connect to Monitor
- Extremely compact design, convenient to carry, allowing patient to roam freely,
- 3.5” Color TFT-LCD display,
- 480 groups NIBP review,
- Power off storage of 8 hours trend,
- Built-in rechargeable lithium battery can work more than 1 hours.

EMS All-In-One Module options:

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<th>Module</th>
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Advanced Modular Monitoring

**ICG**
- Non-invasive method to measure patient's Cardio Output and Hemodynamic status, safe and easy operate.

**AG**
- Anaesthesia Gas module, measure concentration of Et and Fi CO2, O2, N2O and ISO, ENF, DES, SEV, HAL.

**SpO2**
- Masimo / Nellcor SpO2 is optional
- High capacity against interference of ESU, motion & low perfusion

**2IBP**
- Max. 8 IBP measurement with waveform, Systolic, Diastolic, Mean Pressure on ART, CVP, ICP, PA, LAP etc to fulfill different positions invasive blood pressure measuring demands

**CO2**
- Sidestream / Mainstream / Microstream ETCO2 is optional
- Various option can be suitable for intubated patient, ventilation relied patient, non-intubated patient.
- Touch Screen (Option), supporting for Mouse Keyboard operation.
- Available for multi-language interface.
- Independent Physiological & Technical Alarm.
- Built-in detachable rechargeable lithium battery
- Particularly backlight button for night operation
- SD card socket, effective storage for historical patient data.

- Drug dose calculation
- Hemodynamics calculation
- OXYCRG
  - Display 16 minutes trend of HR, SPO2, RESP

- Short trend
  - Maximum 168 hour graphic and tabular trends

- Other bed
  - Display other bedside monitor’s all parameter and one waveform, support user defined parameter display

- Big font
  - User can select 5 parameters (related waveform will display if available)
  - Clear observation in a long distance, especially suitable for ICU, CCU room checking and monitoring during night.
**TECHNICAL SPECIFICATION:**

### A8/A6 Main Unit

**Size and Weight:**
- Size: 400x390x258 mm (A8) / 422x312x193 mm (A6)
- Weight: 11 kg (A8) / 9 kg (A6)
- Standard module: 4
- Additional modules max: 1

**Power supply:**
- Power Voltage: AC 100-240 V 50/60Hz
- Power Input: ≤15VA
- Input Current: ≤0.8A
- Safety Class: I

**Display:**
- 17" TFT LCD with anti-glare treatment
- Resolution: 1280x1024 pixels (A8) / 1280x800 pixels (A6)

**Battery:**
- Type: Rechargeable Lithium battery, 11.1V/1.4AH
- Operating time under normal use and full charge: ≥60 minutes
- Backup time: ≥2 minutes

**Recorder (Option):**
- Method: Thermographic
- Paper width: 50 mm (1.97 in)
- Paper length: 55 m
- Paper Speed: 12.75 / 25 (50 mm/s)
- Tissue: Maximum 3 tissues
- Recording way: Real-time recording, Periodic recording, Alarm recording

**Alarm:**
- Level: Low, medium, high
- Indication: Auditory and visual
- Patient Physiological Alarm light color: Yellow and Red
- Equipment Technical Alarm light color: Blue
- Supports Pitch Tone and multi-level volume
- Supports custom alarm tone

**Input device:**
- Touch button: standard config, support operation of shortcut menu
- standard config
- Mouse Input: Support
- Keyboard Input: Support

**System Output & Extensible Interface:**
- Ethernet Network: 2 Standard RJ45 socket
- Defibrillator Output: 1 RJ1 socket
- Nurse Call: 1 BNC input, 1 BNC output
- Video Output: 1 DVI port, 1 VGA port
- USB1.1 port: 1
- Auxiliary Module Rack connector: 1
- SD memory card: 1 (standard config)
- Analog Output (ESG or BP) - Option

**Trend & Reviewing:**
- Trend: 16 hours
- NIBP monitoring by level: 1000 groups
- ARR event: 128 groups of AR event and the associated waveform.
- Alarm event: 125 groups of parameter alarm events and associated parameter waveform.
- Holographic waveform: The storage time depends on the stored waveform and the quantity of them.

**Environment:**
- Operating temperature: -4°C to +40°C
- Storage temperature: -20°C to +50°C
- Operating humidity: ≤95% (non-condensing)
- Storage humidity: ≤95% (non-condensing)
- Operating atmospheric pressure: 800hPa to 1060hPa
- Storage atmospheric pressure: 500hPa to 1060hPa

**Safety:**
- IECD0601 Approved, CE marking according to IEC60601/IEC

**Performance:**

**ECG**
- Lead Mode: 3-lead ECG input
- 5-lead ECG input
- 12-lead ECG input
- Lead selection: I, II, III, aV1, aV2, aV3, aV4, aV5, V1, V2, V3, V4, V5, V6
- Gain: 20 mm/mV, 20 mm/mV, 20 mm/mV, 20 mm/mV (V1, V2, V3, V4), 10 mm/mV (V5, V6), 40 mm/mV (V1-6), 40 mm/mV (V1-6), 40 mm/mV (V1-6)
- CMRR: Monitor module: 60dB, Surgery mode: ±60dB, Diastolic model/diastolic
- Frequency response: 0.05-40Hz, Monitoring mode: 0.05-25Hz, Diastolic mode: 0.05-150Hz
- Input Impedence: ≤10MOhm
- ECG signal range: ±100 mV
- Electrod offset current: 100 nA
- Patient Leakage Current: ≤10 μA
- Standardization signal: ±1 mV / 5% (when not calibrated after defibrillation)
- Baseline correction after defibrillation: (Mars or Sour method)
- Indication of electrode saturation: Every electrode (exclusive of RL)
- Protection: Breakdown voltage 4000VAC/50/60Hz, defibrillator proof
- Sweep speed: 12.5mm/s, 25mm/s, 50mm/s
- HR Range: Adult 100-300 pulse, Neonate: 50-300 pulse

**Standard configuration of A8/A6:**
- Mainunit: 17" TFT LCD with anti-glare treatment, 4 Standard module slot, 1 Additional module slot, 13 Touch buttons (Only for A8), 24/84 keypads, 1 Defibrillation Output, 1 Nurse Call socket, 1 DVI port, 1 VGA port, 6 USB1.1 port, 1 Auxiliary Module Rack connector, 2 SD memory card.

**Option of A8/A6:**
- ECG module: 8 kinds of option
- Option Module: Side-stream CO2 module, Microstream CO2 module, Mainstream CO2 module, AG module, JCG module, IBP module, Temp module, SpO2 module
- Module Rack: Auxiliary Module Rack
- Navigating: USB compatible mouse and keyboard.
- 3-lead thermal heart rate
- Mounting: Rolling stand, wall mount
- Air collection: 11.2 L/min SAV Rechargeable Lithium Battery(min 2 pieces)
- Other options: External Display, Wireless LAN, Extensive Memory card, Analog Output (ESG or BP), Touch Screen.

**Specifications subject to change without prior notice.**