

# Multi-parameter Patient Monitor

ISO9001:13485 enterprise

**BONDWAY**  
since 2006



**BW3A** (10.4-inch TFT LCD)

## Feature:

1. 10.4-inch, 1024×768 dpi, color TFT display;
2. Suitable for OT and ICU;
3. Separable module: Main board+Parameter module (ECG, NIBP, SpO2);
4. Display brightness adjustable;
5. Real time S-T segment analysis, and ARR analysis;
6. SpO2 Pitch Tone Variation and Drug Dose Calculation;
7. Parameter waveform and characters color selectable;
8. Multi-display: Standard, Large font, Trend Coaxis, OxyCRG dynamic;
9. Standby mode for power saving and suspend monitoring;
10. 7-lead ECG waveforms display in phase;
11. Capture dynamic waveforms and history waveforms review;
12. VGA output;
13. Built-in rechargeable lithium battery 4 hours, and battery volume checking;
14. Efficient resistance to interference of defibrillator and HF knife;
15. SD card memory and USB data output;
16. TCP/IP networking platform enable abundant future upgrade& CMS;
17. Complete and flexible mounting solution for transportation and in-patient monitoring

## Standard parameters:

5-lead ECG, SpO2, NIBP, RESP, TEMP, HR ;

**Optional:** Touch Screen, Printer, 3/12-lead ECG, SD card, VGA output, 2/4-IBP, EtCO2, AG module, Masimo/Nellcor SpO2, Wall mount, Trolley.

**SPECIFICATIONS:****ECG:**

Lead mode: 5-lead(R,L,F,N,C)  
 Lead selection: I,II,III,avR,avL,avF,V  
 Waveform: 3 and 7 channel selectable  
 Gain selection: 0.5mm/mv,1mm/mv,2mm/mv  
 Sweep speed: 12.5mm/s;25mm/s;50mm/s  
 Heart rate range:  
 Adult: 15~300bpm;  
 Neonate/Pediatric:15~350bpm  
 Accuracy: +1bpm or +1%, whichever is greater  
 Resolution: 1bpm  
 Filter: surgery mode:1~20Hz  
 monitor model: 0.5~40Hz  
 Diagnostic mode: 0.05~130Hz  
 Scaling signal: 1mv,+3%  
 Protection: withstand 4000VAC/50 voltage isolation  
 against electrosurgical interference and defibrillation  
 Alarm range: 15~350bpm

**SPO2**

Measurement range: 0~100%  
 Resolution: 1%  
 Accuracy: +2%(70-100%);0-69% unspecified  
 Alarm range: 0~100%  
 Pulse Rate: range:20~300bpm  
 Resolution: 1bpm  
 Error: +1bpm or +2%, whichever is greater

**RESP:**

Method: Thoracic impedance  
 Measurement range: Adult:7~120rpm;  
 Neonate/Pediatric: 7~150rpm  
 Apnea alarm: YES,10~40s  
 Resolution: 1rpm  
 Accuracy: +2rpm

**TEMP:**

Compatible probe: YSI or CYF  
 Measurement range: 5~50°C  
 Resolution: 0.1°C  
 Accuracy: +0.1°C  
 Refreshing time: about 1  
 Average measuring time: <10s

**NIBP:**

Method: Digital Automatic oscillometric  
 Operation mode: Manual/Automatic/continuous  
 Auto measurement time: Adjustable(1~480min)  
 Measurement Unit: mmHg/Kpa selectable  
 Measurement types: Systolic, Diastolic, Mean  
 Measurement range:  
 Range of Systolic pressure:  
 Adult: 40~270mmHg  
 Pediatric: 40~220mmHg  
 Neonate: 40~135mmHg  
 Range of mean pressure:  
 Adult: 20~235mmHg  
 Pediatric: 20~165mmHg  
 Neonate: 20~110mmHg  
 Range of diastolic pressure:  
 Adult: 10~215mmHg  
 Pediatric: 10~150mmHg  
 Neonate: 10~100mmHg  
 Over-pressure protection:  
 Double safety protection  
 Resolution: 1 mmHg  
 Alarm: Systolic,Diastolic,Mean

**IBP (Optional)**

IBP Waveform: 2-Channel  
 Max 8 channels  
 Measurement Range: -50-350mmHg  
 Resolution: 1mmHg;  
 Unit: mmHg, kPa  
 Accuracy:  
 Static:±1mmHg or 2%, whichever is greater  
 (exclusive of transducer)  
 Dynamic: ±4mmHg or 4%, whichever is greater  
 Sensitivity of transducer: 5 uV/V/mmHg, ±2%  
 Impedance of transducer:300~3000 Ohm  
 Transducer sites:  
 ART,PA,LAP,RAP,CVP,ICP,P1,P2  
 Selection of measurement range:  
 ART: 0 ~+ 350mmHg  
 PA: -10 ~+ 120mmHg  
 CVP/RAP/LAP/ICP:-10 ~+ 40mmHg  
 P1/P2: -50 ~+ 360mmHg

**EtCO2 (Sidestream CO2,Optional)**

Measurement range: 0~99mmHg  
 Accuracy: +2mmHg (0~40mmHg)  
 Sampling Range: 100ml/min  
 Sampling rate accuracy: 15%  
 Respiration rate: 0~120rpm  
 Respiration accuracy: +2rpm (0~70rpm)  
 +5rpm (>70rpm)  
 Respiration time: <240msec (10% to 90%)  
 Delay time: <2s

**EtCO2 (Mainstream CO2,Optional)**

Method: Infrared Spectrum  
 Range: 0.0-10% (0~76%)  
 Resolution: 1mmHg (0.1%)  
 Accuracy: <5%(±4.0 mmHg)  
 Or <10%(of Readings)

**Suntech(Suntech):**

Technique: Oscillometric  
 Patient Applications: Adult Pediatric, Neonate  
 Systolic Range: 40-265mmHg  
 Diastolic Range: 20-200mmHg  
 MAP Range: 27-222mmHg  
 Pulse Range: 25-300BPM  
 Transducer Accuracy:±3mmHg up to full range  
 Operation Conditions:  
 0°C to 50°C, 15%to 95% non-condensing RH  
 Storage Conditions:  
 -20°C to 65°C, 15%to 95% non-condensing RH

**Recorder (Optional)**

Build-in, thermal array  
 Plethysmogram waveform: 2 channels  
 Record mode: manual, on alarm, time-defined  
 Recording width: 50mm  
 Printing speed: 50mm/s  
 Recording type: Frozen waveform record  
 NIBP recall record  
 Trend table record  
 Alarm record  
 Fixed -time record