



The **Aspect A-2000 BIS** is a bispectral index anesthesia monitor. The BIS system monitors the sedation level of the patient based on the acquisition and the processing of EEG Signals. The EEG is read by the bispectral index monitor, processed, and produces a number that is called the bispectral index - this is connected to the patient's level of sedation. The Aspect A-2000 BIS is used to monitor the cerebral electrical activity of a patient.

## Features

- Reduce the sedation drug use
- 35%-55% fast wake-ups and extubations
- Improve the quality of post anesthesia recovery
- Reduce recovery time
- Can enhance the performance during cardiac or other other deep anesthetic procedures



# Specifications

## Monitor Dimensions

Height: 7 in (17.5 cm)  
Width: 7 in (17.5 cm)  
Depth: 4 in (10 cm)  
Weight: 3.1 lbs (1.4 kg)

## Digital Signal Converter Dimensions

Height: 1 in (2.5 cm)  
Width: 2.6 in (6.6cm)  
Depth: 4.25 in (10.8 cm)  
Weight: 4.7 oz ( 0.134 kg) including integral cable

## Power

Power requirements: 100-240 VAC, 50-60 Hz, 1 ampere max  
Battery Backup: 20 minutes at full operation

## EEG Specifications

Epoch Duration: 2 seconds  
Artifact Rejection: Automatic  
EEG Scales: 25  $\mu$ V/div (+/- 1 mV Full Scale)  
EEG Sweep Speeds: 25 mm/sec  
Computed Parameters: Bispectral Index, 95% Spectral Edge Frequency, Suppression Ratio, EMG and Signal Quality Index  
User-defined Displays: TREND, DSA and real-time EEG waveforms  
Update Rate: 1 second for BIS Index, 10 seconds for Trend/DSA  
Event Markers: User selected  
Alarms: Auditory and visual, user adjustable limits  
Filters: ON (2 – 70 Hz with notch) or OFF (.25 – 100 Hz) Note: Filter setting does not effect computed parameters  
Mode: Sensor automatically selects mode

## Digital Signal Converter Specifications

Analog to Digital Converter: Noise-shaped sigma-delta  
Sampling Rate: 16,384 samples/second  
Resolution: 16 Bits at 256 samples/second  
Input Impedance: 50 Mohms minimum  
Noise: < 0.3 mV RMS (2.0 mV peak-to-peak); 0.25 Hz to 50 Hz  
Common Mode Rejection: 110 dB at 60 Hz to earth (Isolation mode) ground  
Bandwidth: 0.16 – 800 Hz

