

**BIS™: Measures the Effects of Anaesthetics and Sedatives on the Brain**

## The BIS XP System

### Sustained, reliable BIS Measurement in the OR, ICU and other clinical settings

The BIS XP system is Aspect's next generation of consciousness monitoring technology. It is comprised of an A-2000™ XP Monitor and a new family of BIS sensors – the BIS Quatro and Paediatric sensors.

BIS enables clinicians to:

- Titrate drugs to meet individual patient's needs
- To assess consciousness and sedation separately from cardiovascular reactivity

BIS has been shown to:

- Reduce hypnotic drug use
- Achieve 35%-55% faster wake-ups and extubations
- Improve quality of post anaesthesia recovery
- Obtain faster eligibility for discharge
- Reduce recovery time
- Assess the risk of intra-operative awareness

\* Data on file at Aspect Medical Systems

BIS XP System new features:

- Resistant to electrocautery
- Detects and filters EMG and other artefacts
- Enhanced performance during cardiac and other deep anaesthetics



### How BIS works

- Raw EEG information is obtained via a sensor placed on the patient's forehead
- The BIS system processes the EEG information and calculates a number between 0 and 100 that provides a direct measure of the patient's level of consciousness
  - a BIS value near 100 indicates the patient is awake
  - a BIS value of 0 indicates the absence of brain activity
- Anaesthetics and sedatives may be titrated to a variety of BIS values depending on the goals for each patient

### BIS Monitoring: complementing your expertise

BIS technology can provide new insight about the direct and patient specific effects of anaesthesia and sedatives on the brain, enabling you to:

- **Observe** traditional vital signs while you
- **Measure** effects on the brain with BIS to
- **Assess** patient status with even greater confidence and
- **Decide** on the best course of treatment



THE COMFORT OF KNOWING



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## BIS XP™ System Product Specifications

### A-2000 BIS Monitor

Description	BIS (Bispectral Index™) monitor for display of the Bispectral Index processed data and real-time EEG waveforms
Monitor Weight	1.4 kg (3.1 lbs)
Monitor Dimensions	17.5 cm (w) x 17.5 cm (h) 10 cm (d) (7.0" x 7.0" x 4.0")
Display Size	8.5 cm (h) x 11.2 cm (w) (3.4" x 4.5")
Digital Output	RS232 serial port; printer port
Trend Parameters	Bispectral Index, Signal Quality Index, EMG and Suppression Ratio
Electrical Safety	Conforms to UL 2601, CSA 22.2 No. 601-1 and IEC 601-1
Battery Back-up	20 minutes, at full operation. Recharge time: 4 hours
Power Requirements	100-240 VAC, 50-60 Hz, 1A max.
Mounting Option	IV pole, flat surface, Anaesthesia cart

### Digital Signal Converter XP

Converter Weight	0.284 kg (10.0 oz)
Converter Dimensions	6.6 cm (w) x 2.5 cm (h) x 10.8 cm (d) (2.6" x 1.0" x 4.25")
Cable Length	3.7 m (12 feet) integral DSC cable, 0.9 m (3 feet) patient interface cable

### A-2000 Printer (optional)

Printer	Fixed thermal head printer with integral paper handling system
Printouts	Current Case (with 10 second EEG), Prior Case (no EEG), Event (30 sec EEG), DSC Self Test
Power Requirements	Powered by the A-2000 BIS Monitor (100-240 VAC, 50-60Hz, 1A max.)
Software	A-2000 BIS monitors require system software 2.20 or above. (Free software upgrade available with printer purchase)
Paper	High-sensitivity, 7-year archivable paper available from Aspect Medical Systems (AFPS PIN 186-0109) 2 rolls supplied
Printer Dimensions	18.0 cm (w) x 10.1 cm (h) x 9.0 cm (d) (7.0" x 4.0" x 3.5")
Weight	380 g (1.3 lbs)
Electrical Safety	Conforms to UL 2601, CSA 22.2 No.601-1, IEC 601-1 and IEC 601-2-26
Battery Backup	Designed to shut down when the A-2000 Monitor operates in battery backup mode
Mounting	Attaches to underside of A-2000 BIS monitor via integral #10-24 screw used to secure the 32-pin connector. The monitor/printer assembly should be secured so that it does not tip over during transport. #8-32 screw holes available on printer underside for permanent attachment to flat surface.



## Ordering information

Part Number	Description
186-0119	A-2000 System with the Bispectral Index (BIS), international version
186-0107	BIS Sensor Patient Interface Cable (PIC+ cable for fully upgraded A-2000 and new XP)
186-0067	BIS Sensor (Standard) Patient Interface Cable
186-0031	A-2000 Printer
186-0109	7-year archivable printer paper (pack of 4 rolls)
186-0106	BIS Quattro Sensor, 1 box = 25 sensors
186-0110	BIS Paediatric Sensor, 1 box = 25 sensors
186-0100	BIS Standard Sensor, 1 box = 25 sensors



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