

Datascope® Patient Monitoring

BIS™ Integrated Solutions



An integrated solution you can count on

The Datascope BISx™ Module provides depth of consciousness and sedation monitoring for use in the OR and Recovery. BIS information is displayed on the Spectrum OR™ multiparameter monitor providing:

- Integrated patient information to facilitate clinical decision making
- Integrated data management for efficient and complete record keeping
- A space saving solution – no need for standalone equipment or multiple modules
- A cost-effective solution – all Spectrum ORs are BIS Ready™. Simply move your BISx Module from one monitor to the next as needed
- A convenient solution – attach the BISx Module to an IV pole or other suitable location using the integrated clip

Partnering to improve patient outcomes

BIS monitoring is most widely used in the OR to:

- Reduce anesthetic drug use
- Help clinicians reduce the risk of awareness in adult patients during general anesthesia and sedation^{1,2}
- Decrease the incidence of post operative side-effects such as nausea and vomiting
- Reduce length of stay in the PACU (recovery room)

In the ICU, BIS monitoring has been shown to reduce recall of unpleasant experiences and provide objective sedation assessment during:

- Mechanical ventilation
- Neuromuscular blockade
- Barbiturate coma
- Bedside procedures

How BIS works

The **BIS** is a direct measure of the effects of anesthetic and sedative agents on the brain. Using a sensor placed on the patient's forehead, BIS monitoring translates brain electrical activity into a single number between 100 (wide awake) and zero (absence of brain electrical activity) that represents the patient's level of consciousness.

This enables clinicians to customize the precise type and amount of anesthetic or sedative medication that each patient needs.



1. Myles PS, Leslie K. Bispectral Index Monitoring to Prevent Awareness during General Anaesthesia: The B-Aware Randomised Controlled Trial. *The Lancet*. 2004; 363: 1757-63.

2. Ekman A, Lindholm ML, Lennmarken C, Sandin R. Reduction in the Incidence of Awareness Using BIS Monitoring. *Acta Anaesthesiologica Scandinavica*. 2004; 48(1): 20-6.

Sustained, reliable BIS measurement in the OR, ICU and other clinical settings.

- Resistant to artifact from electrocautery devices
- Detects and filters interference from EMG and other artifact conditions commonly found during:
 - MAC cases with sedation
 - Limited analgesia or neuromuscular blockade
- Dependable performance during cardiac and other deep anesthetics
- Family of sensors available: the BIS Quatro Sensor, BIS Extend Sensor, and BIS Pediatric Sensor



Datascope's Spectrum OR™



BISx MODULE SPECIFICATIONS

SYSTEM COMPATIBILITY*

Spectrum OR Patient Monitor

DISPLAY

Parameters: BIS, SQI, EMG, SR, BC and EEG

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BIS Alarm Bar: Graphical indication of BIS alarm settings

EEG Wave Scale: -25 to 25, -50 to 50, -100 to 100, -200 to 200, -250 to 250, -400 to 400 uV

BIS PARAMETERS/FEATURES

Multi-functional BIS Shortcut Key:

- 1) Opens BIS Sensor Check Menu during sensor check condition
- 2) Opens BIS Expand View trend display when Expand View function is enabled
- 3) Opens BIS Menu

BIS Trend: Provides continuous graphical trend data for BIS and EMG

BIS Trend Time Scales: 15 and 30 minutes, and 1, 2, 4, 8, 12, and 24 hours

BIS Expand View: Provides an expanded view of BIS Trend via one-touch function

BIS Smoothing Rate: 10, 15 or 30 seconds

BIS Alarms: High and low

BIS, EMG and EEG Colors: Each configurable to 1 of 16 colors

Graph and List Trends: Store up to 120 trend values for BIS, EMG and SQI, expandable to 500 trend values with Extended Memory Card

Sensor Impedance Check: Automatic and Manual

Low SQI Condition: Hollow BIS value when SQI is 50-15, dashed (invalid) BIS value when SQI is below 15

MODULE ORDERING INFORMATION

Description	Part Number
BISx Module	0992-00-0236-01

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BIS SENSOR ORDERING INFORMATION

Part Number	Description	Quantity
186-0106	BIS Quatro Sensor	boxes of 25
186-0160	BIS Extend Sensor	boxes of 25
186-0200	BIS Pediatric Sensor	boxes of 25

To order BIS Sensors call:

Aspect Medical Systems, Inc.

USA: TOLL-FREE 1.888.BIS INDE(X)

TEL 1.617.559.7000 FAX 1.617.559.7400

Outside USA: TEL +31.30.662.9140 FAX +31.30.662.9150

Internet: bis_info@aspectms.com www.aspectmedical.com

For more information on BIS visit:

www.datascope.com | www.aspectmedical.com



Not all products may be available in all locations. Check with your local Datascope representative.

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*Please ask your BIS representative for details on compatibility and module components.