

TOGETHER, WE MAKE SENSE.

Head and Neck Surgery

NIM-RESPONSE™ 3.0 Nerve Integrity Monitoring System



Medtronic
Further, Together

NIM-RESPONSE™ 3.0 SYSTEM

Nerve Integrity Monitoring System

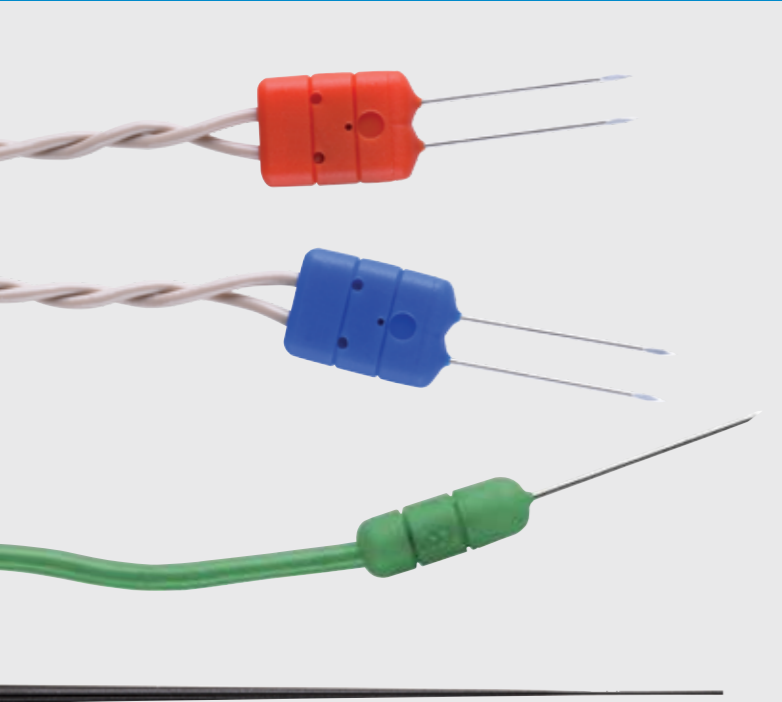
LEADING THROUGH INNOVATION.

To help improve patient safety and surgeon peace-of-mind, Medtronic ENT introduced the first NIM™ intraoperative nerve monitor in 1989. Our NIM™ system evolves with your needs, because we listen to you and

combine your experience with ours.

The NIM-Response™ 3.0 is built on 20 years of continuous innovation, experience, and leadership in nerve monitoring. With

remarkable and innovative technology, it delivers advanced monitoring features in an easily accessible system.



IMPROVED SAFETY AND PEACE-OF-MIND

Key innovative and proprietary features:

- Monitors simultaneously during bipolar cautery
- Real-time continuous monitoring with APS™ electrode
- Artifact detection feature

EASIER TO USE

Redesigned software.

- Three simple user environments: Setup, Monitoring, and Reports
- Setup and Reports Wizards
- Default and customized procedure settings
- Electrode and nerve placement guides

MORE CONVENIENT

For you and your O.R. staff.

- Incrementing Probe allows surgeon to adjust stimulus levels and print or save data
- Ergonomic design for easy setup
- Ability to use two stimulators at once
- Multiple USB ports for saving data
- Customizable for your needs

Why Monitor?

It helps reduce the risk of nerve damage during surgery by monitoring EMG activity in multiple cranial and peripheral nerves by providing audible and visual alerts if the nerve is activated.

THREE USER ENVIRONMENTS

- Setup, Monitoring, Reports

INTUITIVE NAVIGATION BAR

- Always at top of screen
- Side tabs access other settings

BETTER, FASTER TOUCHSCREEN

- Navigate NIM™ software more quickly and easily



SNAPSHOT BUTTON

- Provides flexible reporting options
- Instantly prints and saves current screen image

ADJUSTMENT KNOBS

- Quickly change stimulus or volume levels

VISUAL ENHANCEMENTS

- Larger and easier-to-read displays
- Greatest EMG response is highlighted

SLEEKER DESIGN

- More compact system takes up less space
- Cart reduces clutter with streamlined cord management and storage

SETUP MODE



MONITORING MODE

LEADING
THROUGH
INNOVATION.

FAST AND EASY SETUP

3 Easy Steps to Begin Monitoring

1. Choose procedure or surgeon settings.
2. Review settings, place and check electrodes.
3. Begin monitoring.

Nerve and Electrode Placement Guides

- Color-coded to help reduce confusion
- Choose by procedure, nerve, or customized settings

More Convenient Electrode-Checking

- Quick, one-touch access
- Built-in audio and visual alarms ensure proper monitoring

"HELP" BUTTON

Audio EMG Samples

- Helps to explain the sounds you hear and provides examples of each

Electrode Placement Guides

- Allows you to review the recommended placement by nerve or procedure

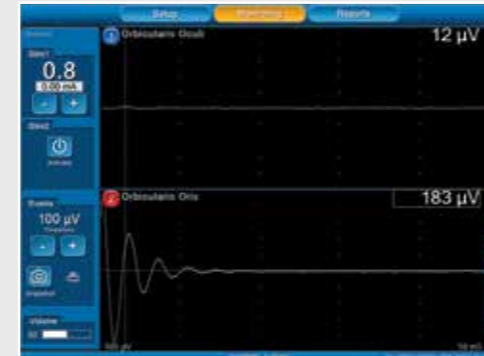
1. Choose procedure or surgeon settings



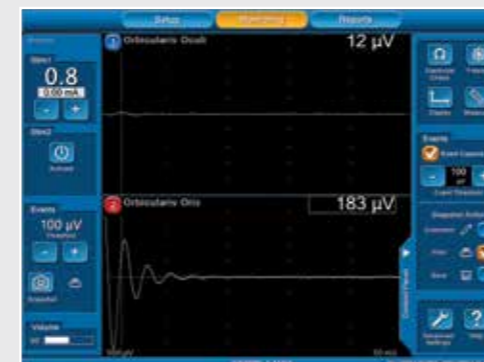
2. Place and check electrodes



3. Begin monitoring



4. Adjust additional settings easily



KEY INNOVATIVE AND PROPRIETARY FEATURES

Simultaneous Monitoring During Bipolar Cautery

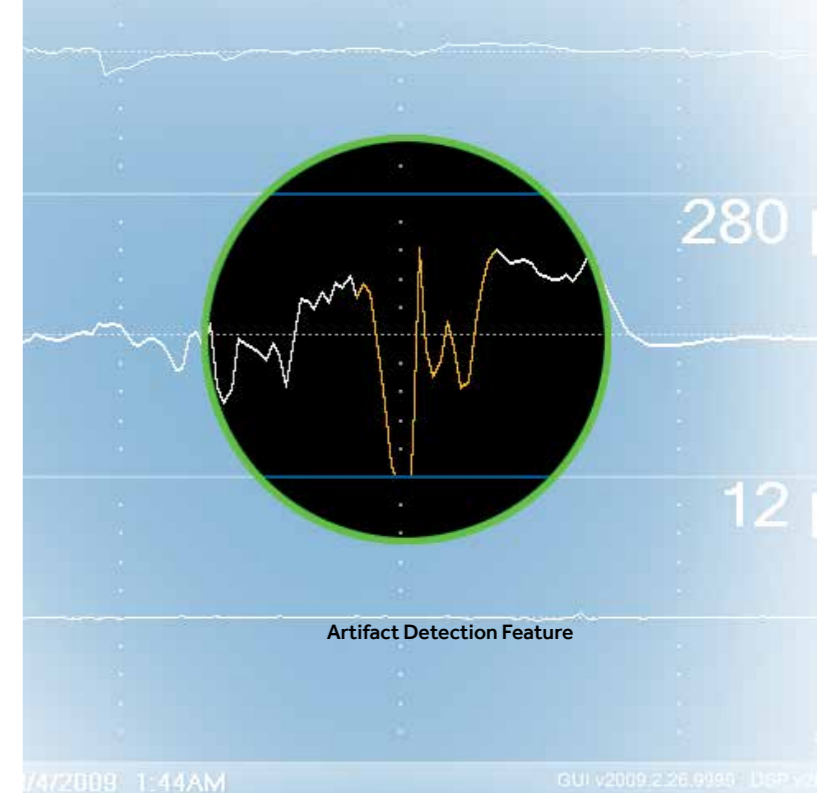
- No need to mute or turn off monitoring when using bipolar cautery
- Provides expanded monitoring capabilities

Artifact Detection Software

- Distinguishes between artifact and EMG signals
- Mutes most artifacts for a more quiet surgery

APS™ Monitoring (Automatic Periodic Stimulation)

- Provides real-time continuous monitoring
- Stimulating electrode is placed on the nerve
- Allows for early detection and warning of a change in nerve function



Artifact Detection Feature



ENHANCED ON-SCREEN INFORMATION

- More Visible EMG Values and Settings
- Expanded Amplitude and Time Scales
- Intuitive Buttons and Tabs for Easy Access to Advanced Settings

MONITORING MODE

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REPORTS MODE



STIM BUR GUARD

- Combines an electric drill with stimulation
- Works with Visao™ High-Speed Otologic Drill and Integrated Power Console (IPC™) system
- Warns surgeon of bur's proximity to facial nerve during otologic surgery



VERSATILITY WITHIN THE SURGICAL FIELD

Surgeon Mini Screen

- Displays monitoring information on small screen
- Attaches to any I.V. pole

Incrementing Probe

- Adjusts the stimulus from 0.01 mA to 30 mA
- Prints or saves the current screen

Two Independent Stimulators

- Enables more flexibility in stimulus options



BETTER QUALITY EMG INFORMATION

Increased Sensitivity

- Improved signal-to-noise ratio
- Enables you to hear and see lower-level EMG responses due to less background noise
- Helps minimize nerve manipulation during surgery

Improved Muting Detector

- More sensitive to EMG signals
- Less sensitive to external and internal interference
- Only one muting port versus four



QUICK AND EASY DOCUMENTATION

Report Wizard

- Create custom reports
- Enter case information and customize data fields
- Save or print patient's EMG activity to document for electronic medical records, reimbursement, etc.
- Utilize snapshot or log reports

Multiple USB Ports

- Attach a printer, USB stick, keyboard, or other data storage devices
- Save reports as an Adobe® Acrobat® PDF



SERVICE AND SUPPORT

DEDICATED SERVICE AND SUPPORT

- Large, dedicated sales force
- More than 25 years of experience in nerve monitoring
- On-site training for you and your staff upon installation
- Ongoing in-servicing and training



ORDERING INFORMATION

SYSTEM REQUIREMENTS

Cat Number		Qty	UOM
8253002	Mainframe, NIM-Response™ 3.0 INTL	1	EA
8253200	Patient Interface Box, Response 3.0 4 CH	1	EA
8253600	Patient Simulator, NIM™ 3.0 Universal	1	EA
8220325	NIM™ Muting Detector	1	EA

POWER CORDS

1895824	Power Cord UK 6 m	1	EA
1897821	Power Cord North America 6 m	1	EA
1895825	Power Cord Continental Europe 6 m	1	EA

USER GUIDES

8253050	User Guide, NIM-Response™/NIM-Neuro™ 3.0, EN	1	EA
8253050A	User Guide, NIM-Response™/NIM-Neuro™ 3.0, EN, SP, FR, PO, GR	1	EA
8253050B	User Guide, NIM-Response™/NIM-Neuro™ 3.0, EN, FR, DE, DU, IT	1	EA
8253050C	User Guide, NIM-Response™/NIM-Neuro™ 3.0, EN, SW, DA, FI, NO	1	EA
8253050D	User Guide, NIM-Response™/NIM-Neuro™ 3.0, EN, PO, CZ, HU, TR	1	EA
8253050E	User Guide, NIM-Response™/NIM-Neuro™ 3.0, EN, RU (CD)	1	EA

OPTIONAL

8253250	Printer	1	EA
8253230	Power Supply	1	EA
8253028	USB Cable	1	EA
8253010	Surgeon Mini Screen (includes cable)	1	EA
8253020	Cart, NIM™ 3.0 System	1	EA
8253030	Keyboard North America	1	EA
8253035	Storage Case, NIM™ 3.0	1	EA



Rx only. Refer to product instruction manual/package insert for instructions, warnings, precautions, and contraindications.

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