



The **Medtronic NIM-Response 3.0 system** is used in a wide variety of applications including Intracranial, Extracranial, Intratemporal, Extratemporal, Neck Dissection, Thoracic Surgeries, lower and Upper Extremities, and Spinal procedures. The NIM system uses EMG activity from the patient's muscles to monitor the nerves that could be at risk. By monitoring the patient's nerves during procedures it can reduce the risk of damage during procedures.

The NIM System includes a color touch screen to make it easier to use. There are three individual modes and a customizable setting. The NIM-Response 3.0 can monitor up to four channels, or four individual nerve-muscle combinations at one time. The system USB port making it easy to transfer documents for storage in a medical facility.

## Features

- Monitors during bipolar cautery
- Artifact deletion Software
- Stim Bur integration for the Visao Drill
- Real-time continuous monitoring with the APS Electrode
- Control from the surgical Field
- Multiple USB ports for easy documentation
- Monitors up to four channels of nerve-muscle combinations at a time
- Frequently used in ENT surgery, skull-based, and head and neck procedures



# Specifications

## Dimensions

Height: 33 cm  
Width: 30 cm  
Depth: 27 cm  
Weight: 6.8 kg

## Operational Environment

Operating Temperature range: 10 to 40 °C (Operating)  
Humidity: 30-70% RH non-condensing  
Atmospheric Pressure range: 700 kPa to 1060 kPa  
Mode of Operation: Continuous duty

## Transport & Storage Environment

Shock and Vibration Verified to Standard ISTA 2A  
Ambient Temperature range: - 40 °C to + 70 °C  
Relative Humidity range: 10 % to 100 %, including condensation  
Atmospheric Pressure range: 500 kPa to 1060 kPa

## Display / Touchscreen

Type: High contrast, digital, graphic Color, visible in complete darkness.  
Resolution: Display 1024 H x 768 W pixels, Touch Panel 256 H x 256 W  
Dedicated Function Event Touch Screen Controls: For Amplitude, Time Display and Capture.  
Vertical Display: 20, 100, 500, 1000, 2000, 10,000, 50 K, and 100 K $\mu$ V display modes.  
Event Capture: Enable/disable capture mode indicator on touch screen.  
Time Scale: 25 mS, 50 mS, 100 mS or 20 S display modes.

## Electrical

Input Voltage 100 V, 120 V  
Frequency 50/60 Hz  
Total Power Consumption: 62 W Nominal <78 W Peak (Total 33 W Console, 10 W Printer, and 19 W MiniScreen)  
Auxiliary AC output (For Use With Approved NIM® Accessories Only): NIM® Printer Power Supply (# )150 VA Max.  
Line Isolation: 4000 V Peak-to-Peak 60Hz dielectric withstand from Line Connections to Signal Ground  
Internal Fuse 5 x 20 mm, 2.5 Amp, 250V, Time-lag, Low breaking capacity, Xomed Part # 11270068. Order 8253075 Fuse Kit for replacements.  
Patient Connections All patient probes and electrodes are Type BF applied parts  
Patient Isolation 90-264 Vrms 50-60 Hz < 100 $\mu$ A (Mains on applied part N.C.)  
Patient Connection Capacitance 100 pF +/- 30 % @ 1 kHz (All patient probes and electrodes combined to Safety GND)

## Video Output

Interface: XVGA Compatible, 1024 x 768 resolution  
Connection: 15-pin HD