

# The 1st Handheld Multi-Sensor NMT Monitoring System with Upgraded Features

The **Simple, Economical** and **Complete Solution** for  
**Quantitative NMT Monitoring** in the **OR, PACU, ICU & VET**

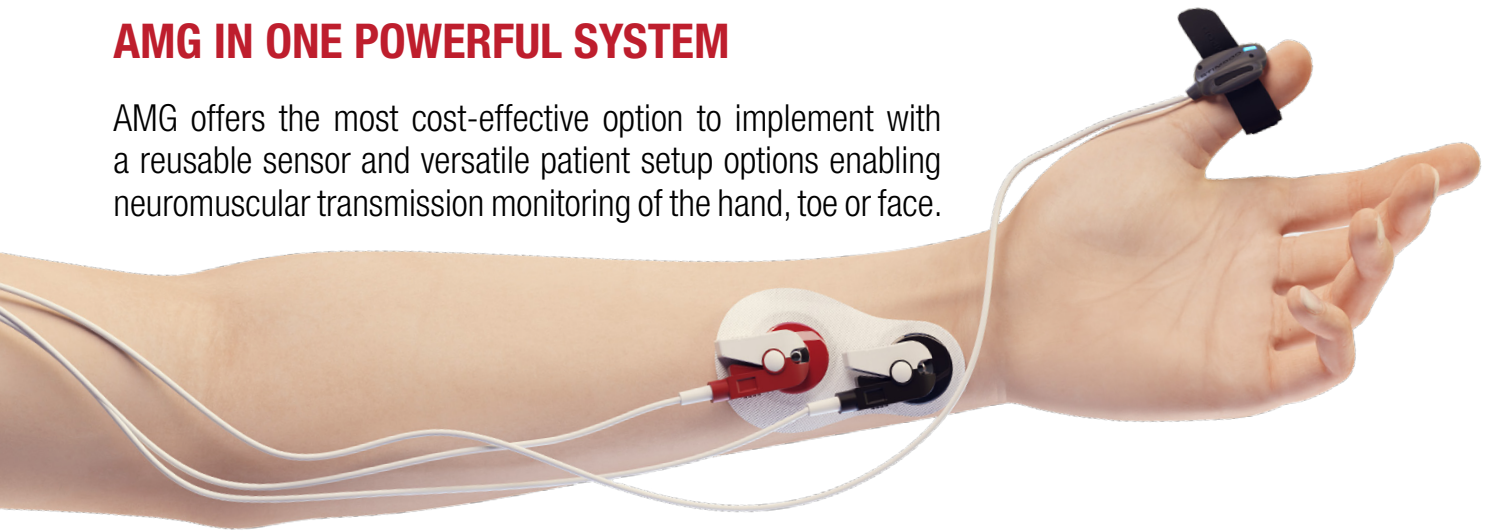


**STIMPOD**  
**NMS 450 X+**

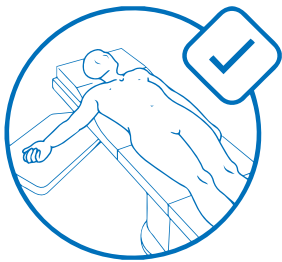
# AMG ACCELEROMYOGRAPHY

## AMG IN ONE POWERFUL SYSTEM

AMG offers the most cost-effective option to implement with a reusable sensor and versatile patient setup options enabling neuromuscular transmission monitoring of the hand, toe or face.



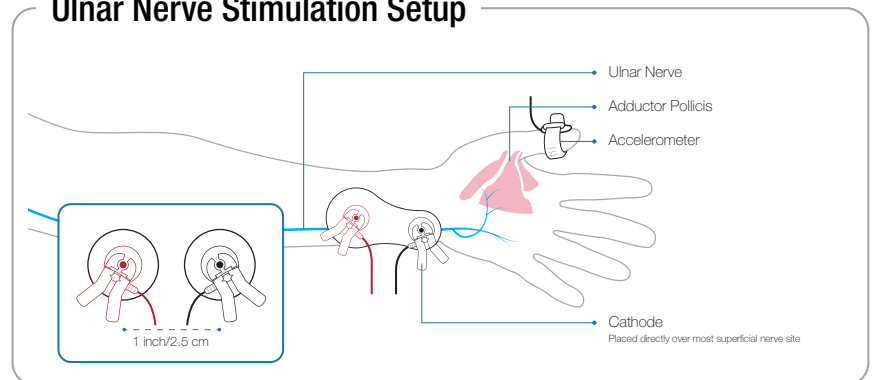
## APPLICATION MODE



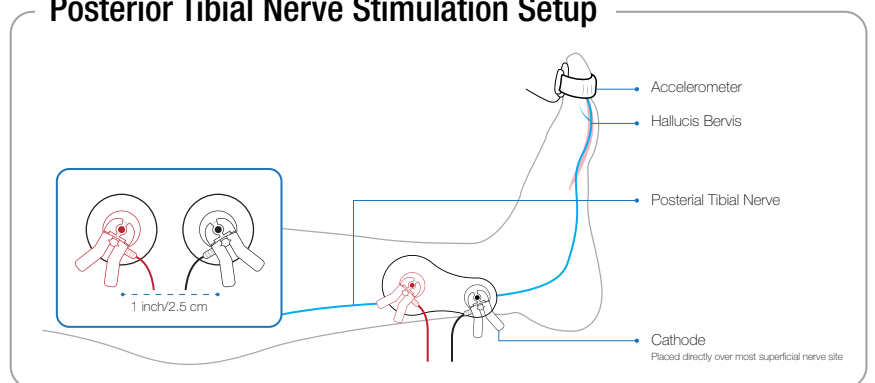
### OPEN ARM

Use the cost-effective re-usable AMG technology for TOF monitoring during open arm surgery setups

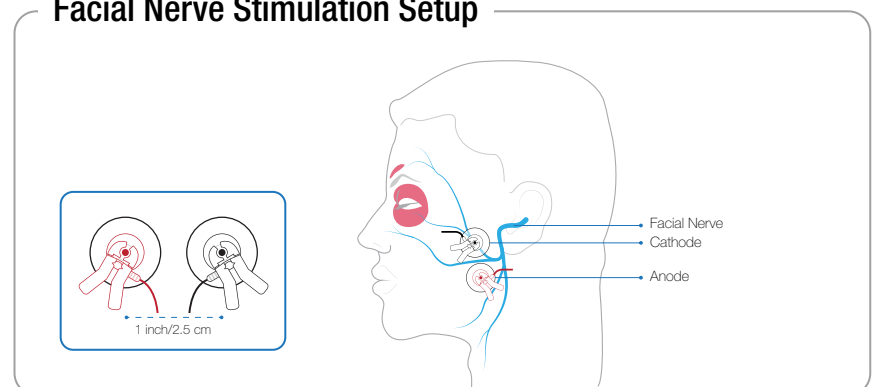
### Ulnar Nerve Stimulation Setup



### Posterior Tibial Nerve Stimulation Setup



### Facial Nerve Stimulation Setup





## TUCKED ARMS

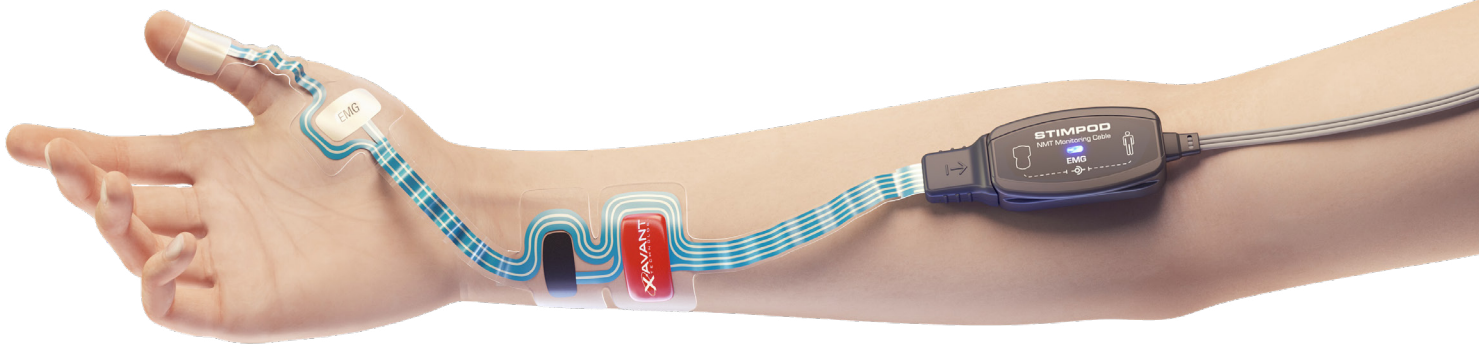
Reliably monitor all robotic, laparoscopic and other tucked arm surgery setups with the EMG modality

# EMG ELECTROMYOGRAPHY

## THIN ULTRA-FLEXIBLE EMG ELECTRODE

The patented ripple design allows the electrode to fit on either the left or right hand and accommodate any hand size.

The soft, dermatoid material allows for maximum adhesion during long surgeries with multiple patient movements for uninterrupted NMBA monitoring.



The only neuromuscular blockade monitoring system available with both AMG and EMG enabling cost control at the point-of-care based on need and specific setting, allowing affordable standardisation across the entire hospital.

## THE PERFECT PARTNER FOR ROBOTIC SURGERY

The EMG functionality allows for neuromuscular blockade monitoring during any patient position.

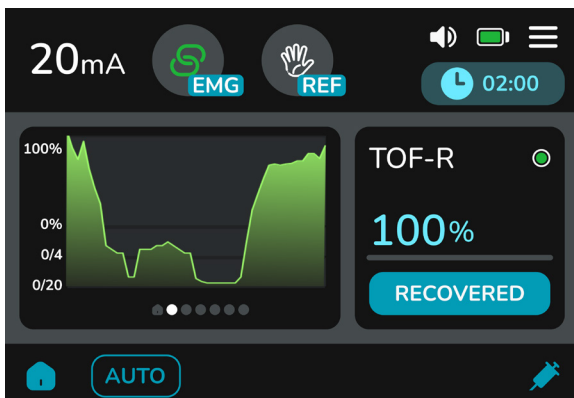
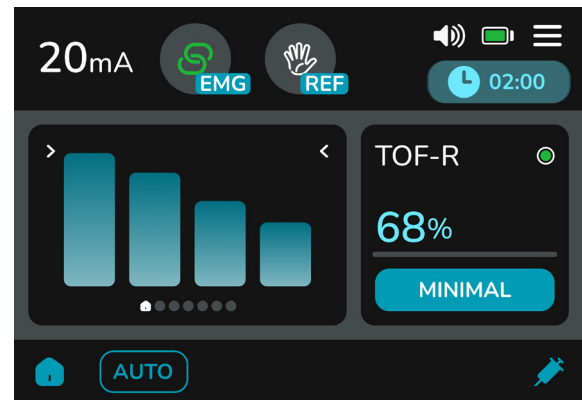
Overcome intra-operative patient inaccessibility concerns with the specialised electrode designed for long-lasting adhesion to the patient and continuous closed-circuit confirmation.



# NEW FEATURES OF THE STIMPOD NMS450X+

## FULL COLOR TOUCH SCREEN

User-friendly interface, seamless interaction, and lightning-fast response times for effortless navigation and enhanced user experience

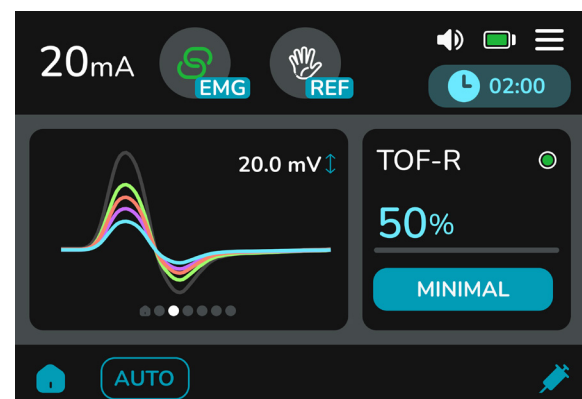


## TRENDS GRAPHS

Know your patients' pharmacokinetic response over time to the paralytics and reversal agents.

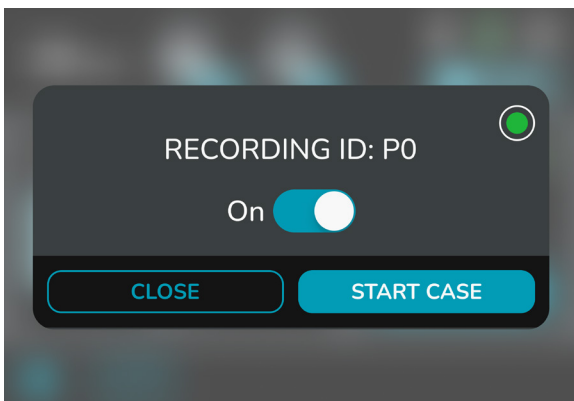
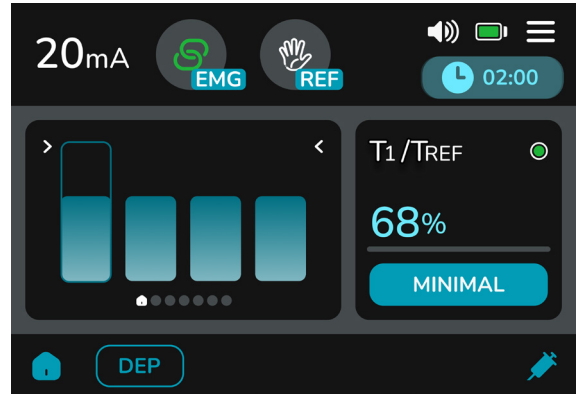
## EMG WAVEFORMS

Enhance the quality of your data by reviewing the morphology of your EMG waveforms in realtime.



## DEP MONITORING

Monitoring depolarising muscle relaxants using dedicated DEP Mode as recommended by the international guidelines.



## SEAMLESS DATA RECORDING

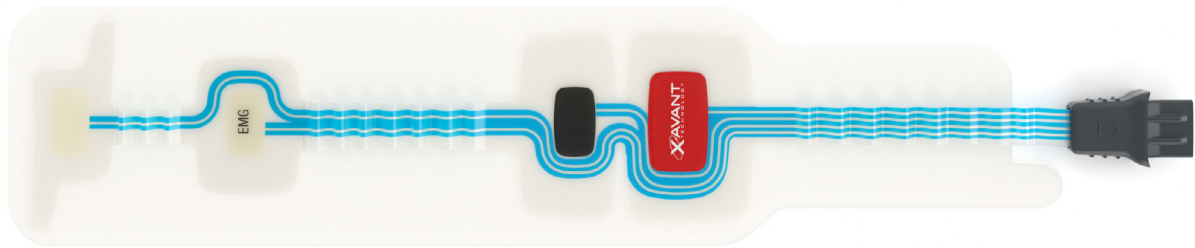
Realtme data recording available for download and integration into your EMR systems.

## RECHARGEABLE BATTERY

The STIMPOD features a unique internally rechargeable and removable Li-ion battery that provides up to 40hrs continuous use.



# ACCESSORIES OF THE STIMPOD NMS450X+



## EMG ELECTRODES

Experience unparalleled comfort and reliability with our patented ripple design EMG electrode. Specifically engineered to fit both left and right hands, it effortlessly accommodates any hand size. Our EMG Electrodes are designed to cater to both adults and paediatrics. Crafted from soft, dermatoid material, it ensures maximum adhesion even during long surgeries with frequent patient movements, guaranteeing uninterrupted NMBA monitoring

## AMG ELECTRODES

The specially designed AMG electrode features a unique colour-coded cathode and anode in a single sticker. Versatile and adaptable, it can be applied to the hand, foot or face. The proprietary stimulation gel and gel interface significantly outperforms conventional Ag/AgCl ECG electrodes over long surgery times.



## COMBINED NERVE MAPPING/ LOCATION CABLE

Auto sensing technology provides a solution for simultaneous nerve mapping and nerve location. The STIMPOD monitors whether the mapping probe or needle touches the patients and adjusts the current range, ensuring quick and precise nerve location.



# ■ ACCESSORIES OF THE STIMPOD NMS450X+



## EMG MONITORING CABLE

Ensure uninterrupted NMBA monitoring with our high-quality, resistant, and reusable EMG and AMG monitoring cable. Available in 1.8m or 3.5m lengths, it provides flexibility and convenience. With exceptional durability, it guarantees reliable and consistent signal transmission for accurate monitoring throughout procedures

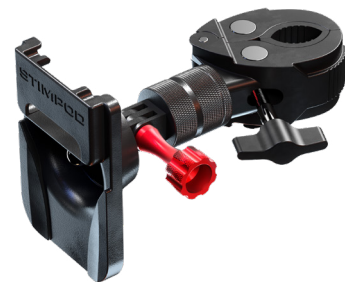
## SMART DATA CABLE

The smart data cable series allows display of your NMT data on 3rd party devices, EMR intergration and remote software updates of your device.



## INFINITY MOUNT

Secure your STIMPOD with our versatile Infinity Mount. With its 360 degrees range of adjustments, it can be fixed anywhere for optimal positioning. Its easy removability adds convenience for healthcare professionals on the go.







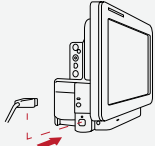
## POLYPROPYLENE CARRY CASE

Keep your STIMPOD safe and organized with our durable protective carry case. Designed with a customizable foam interior, it securely holds your device and accessories. Transport with confidence and ensure everything stays in place with our specially designed foam.







# OVERVIEW




**SIMPLE. ECONOMICAL. COMPLETE.**

One Touch NMT™	Quick Setup and No Calibration	Electrode Placement Verification	Hand Held	Data Connectivity
 <p>Full case monitoring from electrode placement to extubation.</p>	 <p>Patient can be monitored instantly and at any time during the procedure.</p>	 <p>Verify effective electrode placement and optimal stimulation current.</p>	 <p>Easy to move between the OR, PACU &amp; ICU.</p>	 <p>Compatible with Philips monitors. NMShow cable to connect to Windows based PC.</p>

**SIMPLE. ECONOMICAL. COMPLETE.**

Quantitative NMT Monitoring	Reusable Sensor	Electrode Compatibility	Nerve Location
 <p>Reduce incidents of PORC (Post-Operative Residual Curarization).</p>	 <p>The reusable AMG Sensor is an efficient cost saver.</p>	 <p>Options to use either standard ECG electrodes for stimulation or disposable EMG electrode for all tucked arm procedures.</p>	 <p>Can also be utilized for regional blockade.</p>

**SIMPLE. ECONOMICAL. COMPLETE.**

Focus on Patient Care	Focus on Hospital Budgeting	Focus on Anaesthesia Care Team
 <p>Enable simple and safe confirmation of neuromuscular blockades and the key patient management needs for surgery and PACU. Optimize care in all clinical settings.</p>	 <p>Optimize cost of care with either reusable AMG sensor or single use EMG electrode.</p>	 <p>Provide a reliable, portable and versatile device ready at a moment's notice. Now select either AMG or EMG modality at the point of care.</p>



# PERFORMANCE & TECHNICAL SPECIFICATIONS

## Stimulation Settings

Operating Modes	NMT Mode	Nerve Mapping Mode	Nerve locating Mode
Stimulus Type	Current Controlled	Current Controlled	Current Controlled
Stimulus Waveform	Monophasic Square Wave	Monophasic Square Wave	Monophasic Square Wave
Stimulus Pulse Width	200µs ± 5%	50µs, 100µs, 350µs, 500µs ± %5 1ms ± %5	50µs, 100µs, 350µs, 500µs ± 5% 1ms ± 5%
Stimulus Voltage	400V <sub>max</sub>	400V <sub>max</sub>	100V <sub>max</sub>
Stimulus Current	0-80mA ± 5%	0-20mA ± %5	0-5mA ± 5%
Stimulus Frequency	1Hz, 2Hz, 5Hz, 50Hz, 100Hz ± 5%	1Hz, 2Hz, 5Hz ± 5%	1Hz, 2Hz, 5Hz ± 5%
Load Impedance	0kΩ - 5kΩ	0kΩ - 20kΩ	0kΩ - 20kΩ
Operational Modes	AUTO, TOF, PTC, SMC, DEP, ST, DB, TET	-	-

## NMT Range of Measurement

Attribute	Acceleromyography (AMG)	Electromyography (EMG)
Fundamental Unit of measure	3-Axis Acceleration	Compound Muscle Action Potential
Range of Measure	± 4g	± 30mV
Evoked Response	Magnitude of Acceleration Vector Minimum Magnitude of 30 milli-g	Area under the curve Minimum Amplitude of 400µV

## Power Supply

Source	Type	Form Factor	Rating	Electrical Interface/s
Removable Battery	Rechargeable Lithium Ion	21700	3.6v, 5000mAh	Internal 5V, 2A Charger - USB Interface External 5V, 2A Desktop Charger 5 hours 30 mins to full charge at 1.3A <sub>max</sub>

\* The battery cannot be charged internally while the STIMPOD NMS450X+ is in use. The battery can be removed from the device so that it can be charged externally.

## Power Consumption

NMT Mode (AMG)		NMT MODE (EMG)		MAP Mode / LOC Mode	
Average Power	Continuous Use	Average Power	Continuous Use	Average Power	Continuous Use
460mW @ 130mA	Up to 35 Hours	520mW @ 150mA	Up to 32 Hours	426mW @ 120mA	Up to 38 Hours

\* The maximum continuous use hours were determined for the recommended default display intensity - Increased display intensity settings shall result in a reduction of the continuous use hours.

## Physical Attributes

Display	3.5" 24 bit Colour TFT LCD Display with Capacitive Touch Screen
Dimensions	174mm (L) x 90mm (W) x 35mm (H)
Weight (Device Without Battery)	195g
Weight (Device With Battery)	265g
Operating Temperature	10-40 °C
Storage & Transport Temperature	0 - 50 °C
Operating Humidity	90% RH
Storage & Transport Humidity	90% RH
Operating Atmospheric Pressure	50-106 kPa
Transport and Storage Atmospheric Pressure	50-106 kPa

# XAVANT TECHNOLOGY:

## YOUR PARTNER IN EDUCATION AND PROFESSIONAL DEVELOPMENT

At Xavant Technology, we believe that education is the key to unlocking the full potential of quantitative NMT monitoring. That's why we have made it our mission to provide comprehensive educational resources and opportunities to clinicians, students, and sales professionals.

Discover the Power of Knowledge with Xavant Technology. We believe in the importance of sharing clinical content and fostering a community of learning. That's why we actively share insightful peer-to-peer clinical content on our social media platforms - YouTube, LinkedIn, and Twitter.

Through exclusive interviews with international Key Opinion Leaders (KOLs) who are renowned experts in the field of neuromuscular blockade

monitoring, we bring you valuable insights and perspectives that further enrich your understanding on the field. Stay updated with the latest advancements, gain a deeper understanding of NMT monitoring, and enhance your expertise.

Join us on our **social media platforms** and delve into a world of knowledge. Together, let's expand our understanding of neuromuscular blockade monitoring and revolutionize patient care



BEHIND THE MASK



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[www.youtube.com/c/XavantTechnology](https://www.youtube.com/c/XavantTechnology)



## Safe administration and reversal of neuromuscular blocking drugs in daily practice

Dr. Guy Cammu, Dr. Hugo Carvalho



**Accredited  
Courses**

As part of our commitment to education, we are proud to offer free online courses through our **Xavant University**. These courses are designed to empower individuals with in-depth knowledge and practical skills in quantitative NMT monitoring. Whether you are a clinician looking to enhance your expertise, a student seeking to expand your understanding, or a sales professional aiming to better serve your customers, our online courses cater to your specific needs.

We also offer **webinar courses**, quick guide set-up materials, and much more to ensure that our customers have access to a comprehensive range of educational resources. We understand that continuous learning is essential for professional growth and we strive to provide the tools necessary for success.

Excitingly, we have recently partnered with **Xpeer Medical Education**, a renowned platform that offers Continuing Medical Education (CME) credits in over 26 countries, predominantly in Europe. This collaboration allows healthcare professionals to earn CME credits while expanding their knowledge of quantitative NMT monitoring.



[www.xpeer.app](http://www.xpeer.app)



[www.university.xavant.com](http://www.university.xavant.com)



**STIMPOD**  
**NMS 450 X+**

