DELSYS®

Innovating Human Movement.
Inspiring Discovery.

30
YEARS
of Innovation

12K+
RESEARCH & CLINICAL
Customers

96
SUPPORTED
Countries

OUR MISSION

Solving Complex Problems with Advanced Sensing Technologies

Over the last 30 years, Delsys has been dedicated to innovation and advancing wearable technologies for human movement sciences.

The broad range of EMG sensors that the Trigno platform supports empower researchers to:

- Unleash the potential of human-machine interactions in Engineering
- Discover the complexities of motor control in Neurophysiology
- Reveal the mechanics behind performance in Movement Sciences

Let the only limit of your research be your curiosity.

EMG

Discover how the brain coordinates movement.

Electromyography (EMG) is a technique used to measure the electrical activity generated by muscles during contractions.

By using EMG technologies, you can gain insights into muscle activation patterns, timing, intensity, and coordination for applications in sports performance, rehabilitation, biomechanics, robotics, and ergonomics.

Benefits

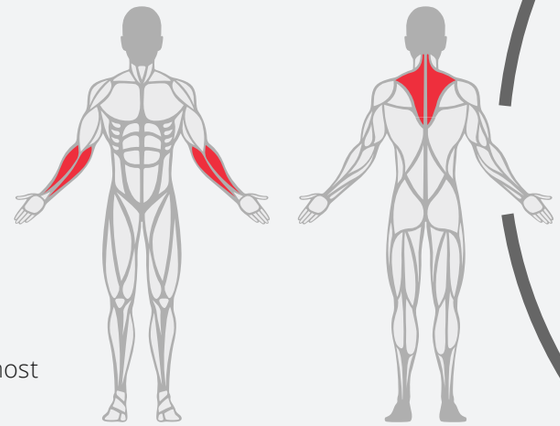
Delsys EMG allows for data to be captured in real-world settings to replicate natural human movement.

- ✓ Wireless
- ✓ Non-invasive
- ✓ Dry electrode
- ✓ Incorporated IMU
- ✓ High Fidelity data

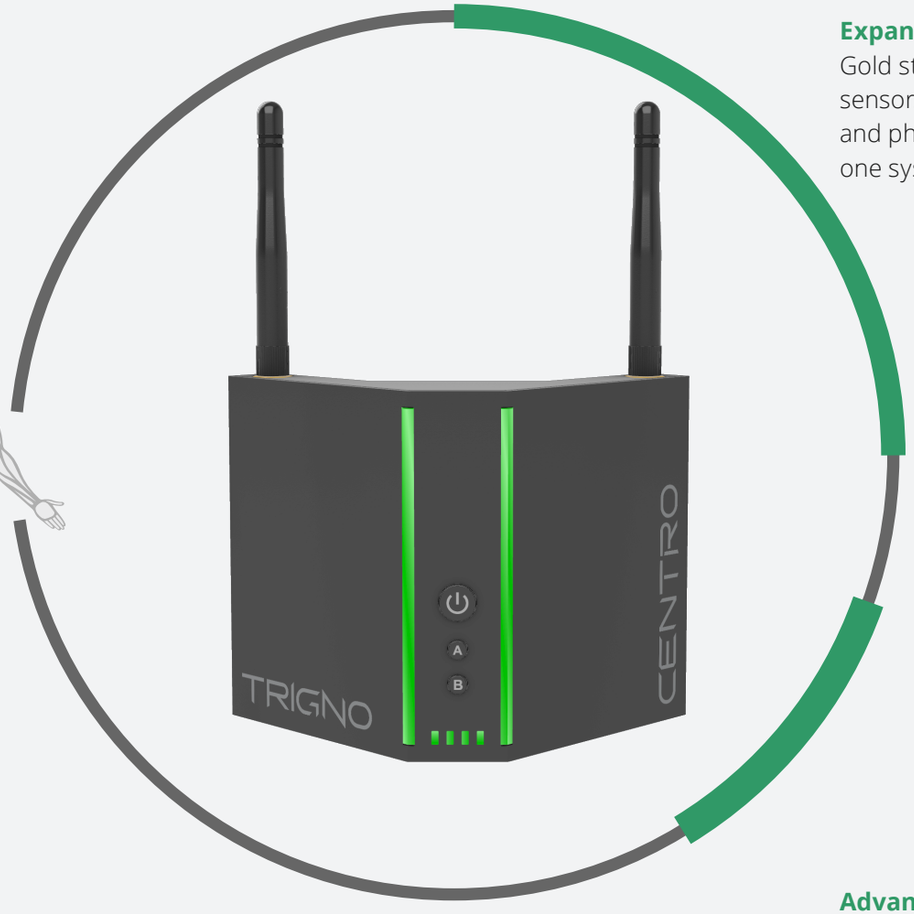
TRIGNO CENTRO

Built on the past, informed by the present, designed for the future.

Expandable Wireless Platform
Gold standard EMG, mini and multi-headed sensors, motor unit decomposition, HDsEMG and physiological sensors all combined within one system.



Measure 128 muscles
Increased transmission capacity and on-board processing, handle even the most complex set-ups to boost your lab.

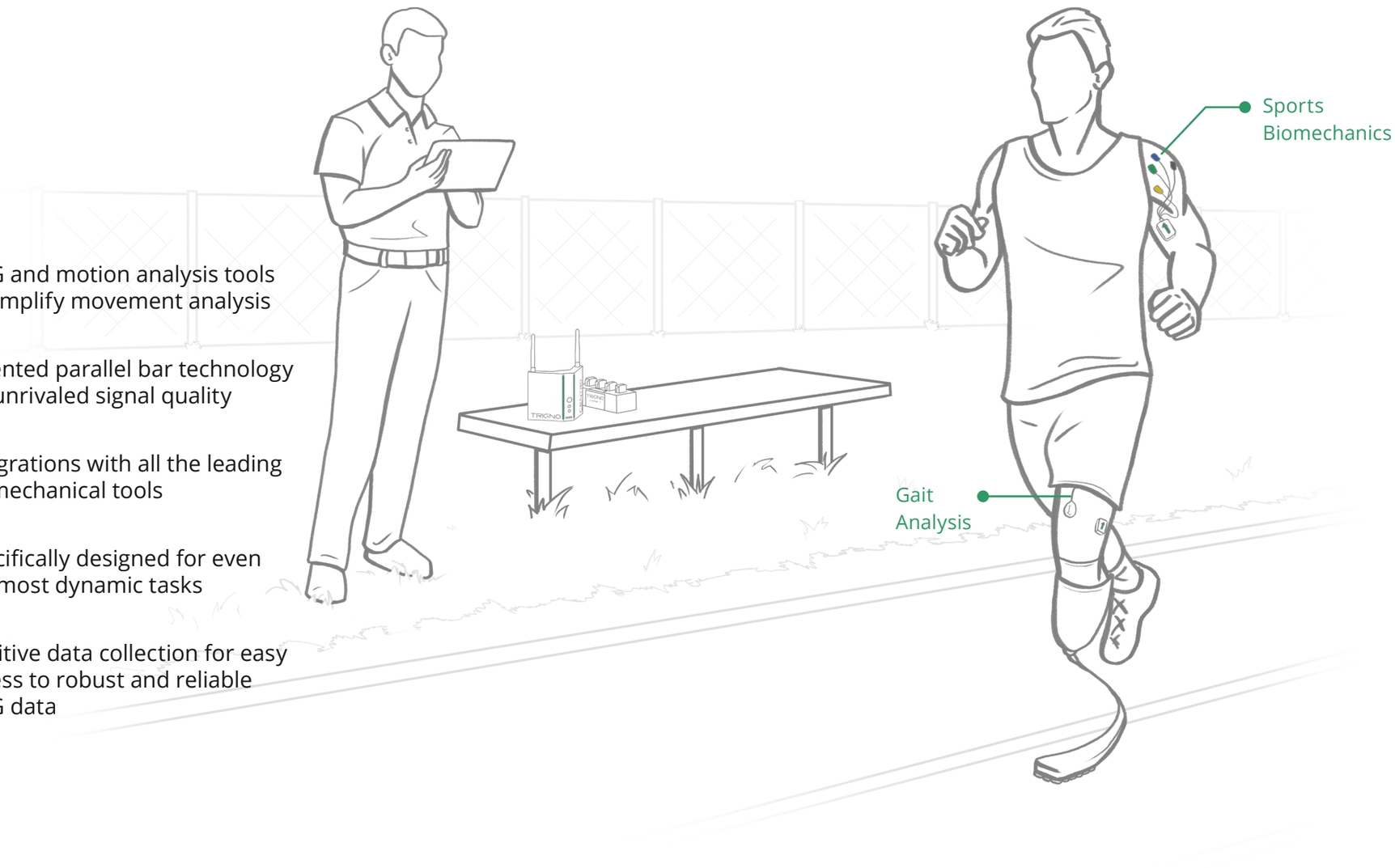


Advanced in-built integrations
Empowering researchers to combine any tool with simple, flexible, and customizable integration options.

MOVEMENT SCIENCES

Unravel the Dynamics of Human Biomechanics

- EMG and motion analysis tools to simplify movement analysis
- Patented parallel bar technology for unrivaled signal quality
- Integrations with all the leading biomechanical tools
- Specifically designed for even the most dynamic tasks
- Intuitive data collection for easy access to robust and reliable EMG data

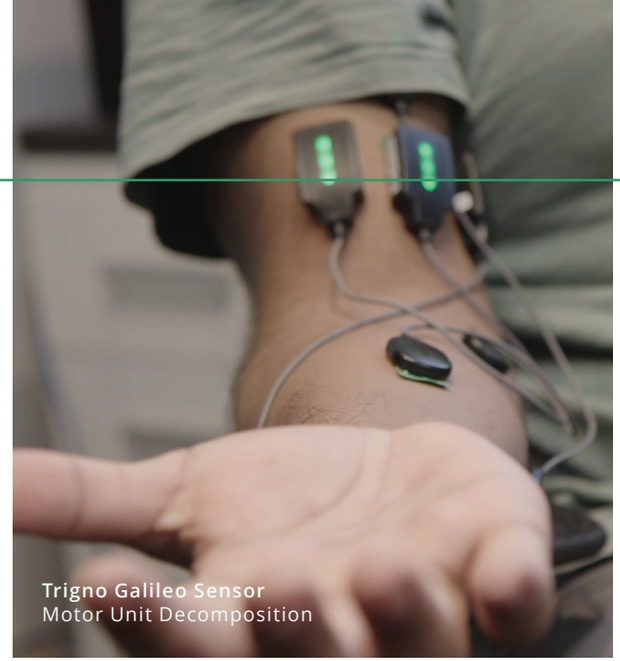


Trigno Avanti Sensor
Combined EMG and IMU

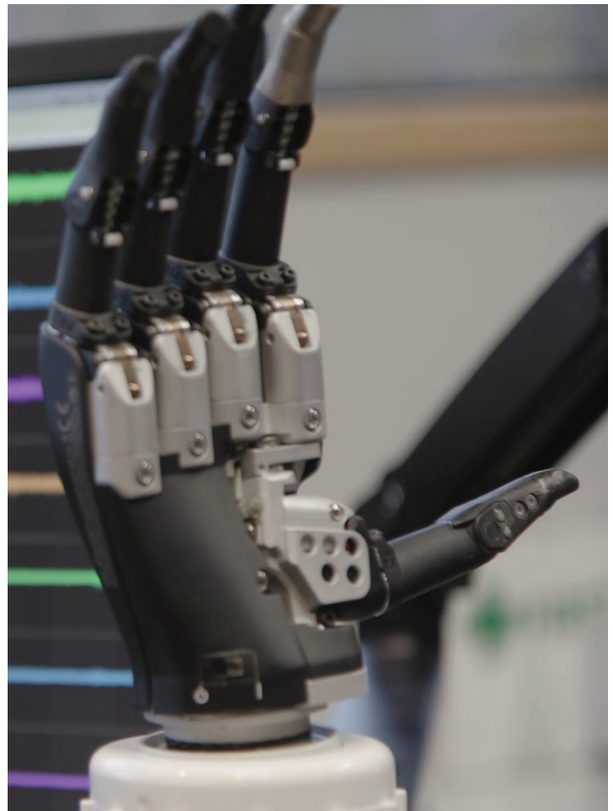
Trigno Mini Sensor
Small Muscles

ENGINEERING

Next Generation Neural Interfacing and Human Augmentation

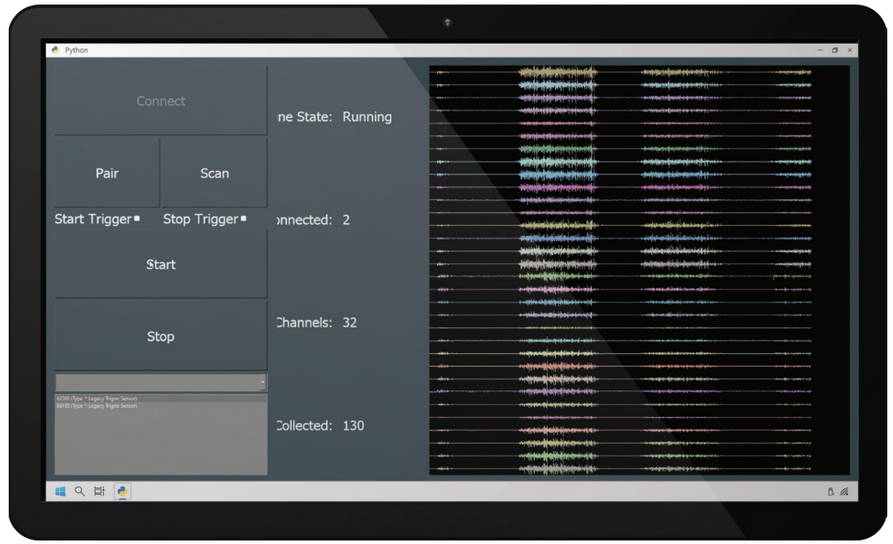


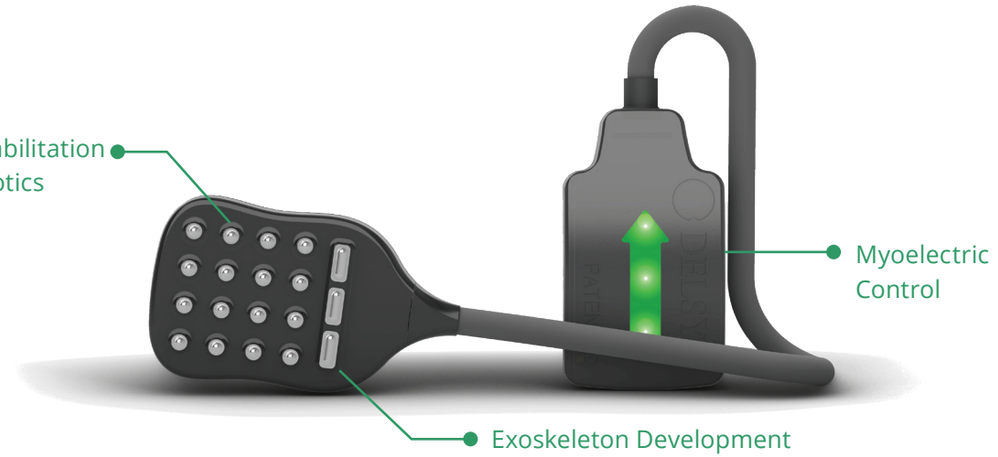
Trigno Galileo Sensor
Motor Unit Decomposition



- Wireless sensing for low latency real-time assessment and myoelectric control
- Compatible with Windows and Linux
- Custom coding pathways in Python, C#, and Unity

Increased data with HDsEMG
for increased accuracy of pattern recognition



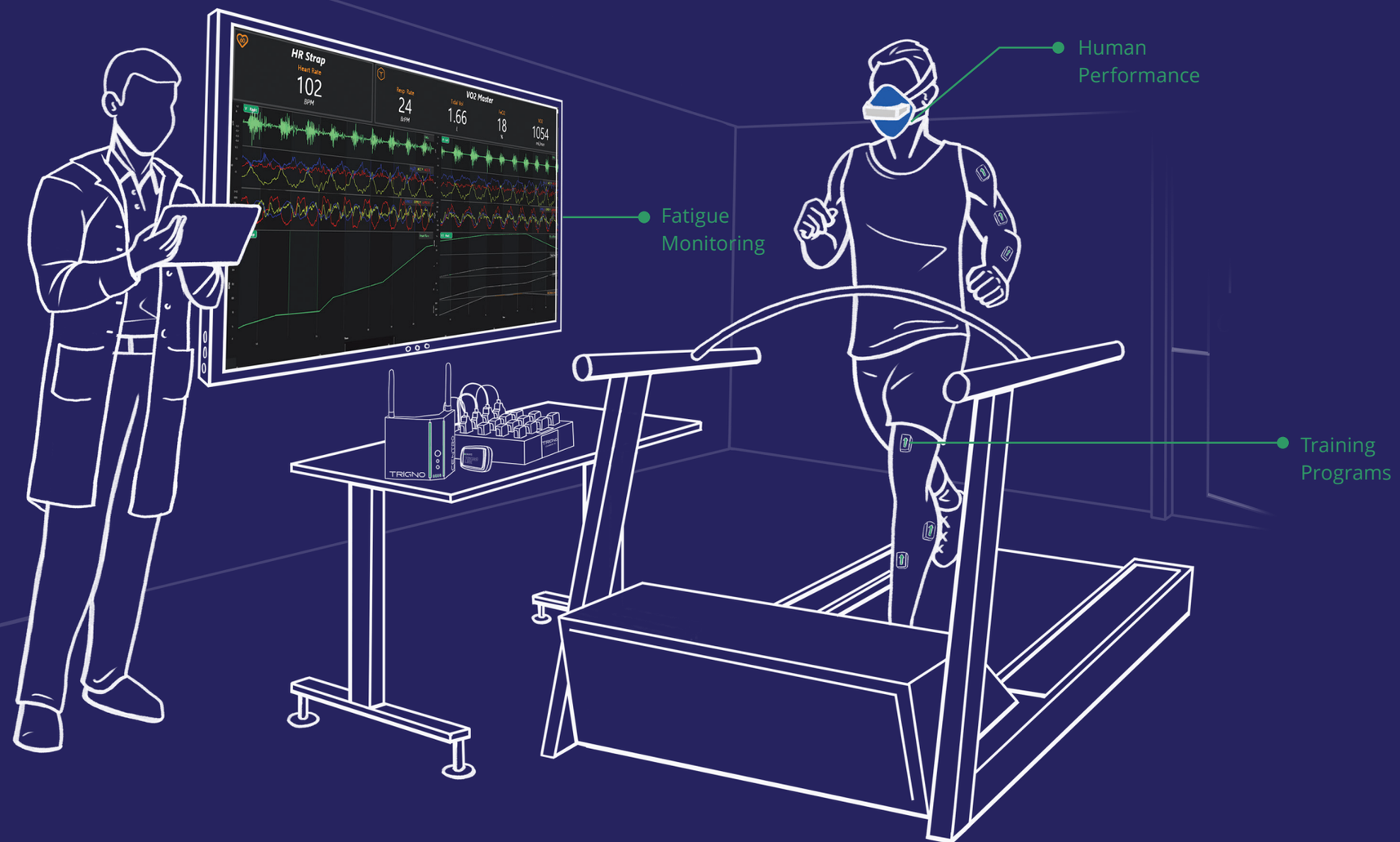


EXERCISE PHYSIOLOGY

Take Your Research Further and Break New Ground in Exercise Physiology

Analyze human movement with integrative technologies
EMG | VO_2 | SmO2 | Heart Rate

- Lightweight and portable solutions supporting lab-based assessments in any environment
- Combine biomechanics and physiology
- Unified software experience
- Integrated & synchronized wireless sensing



MOTOR CONTROL

Dive Deep into Understanding Motor Control

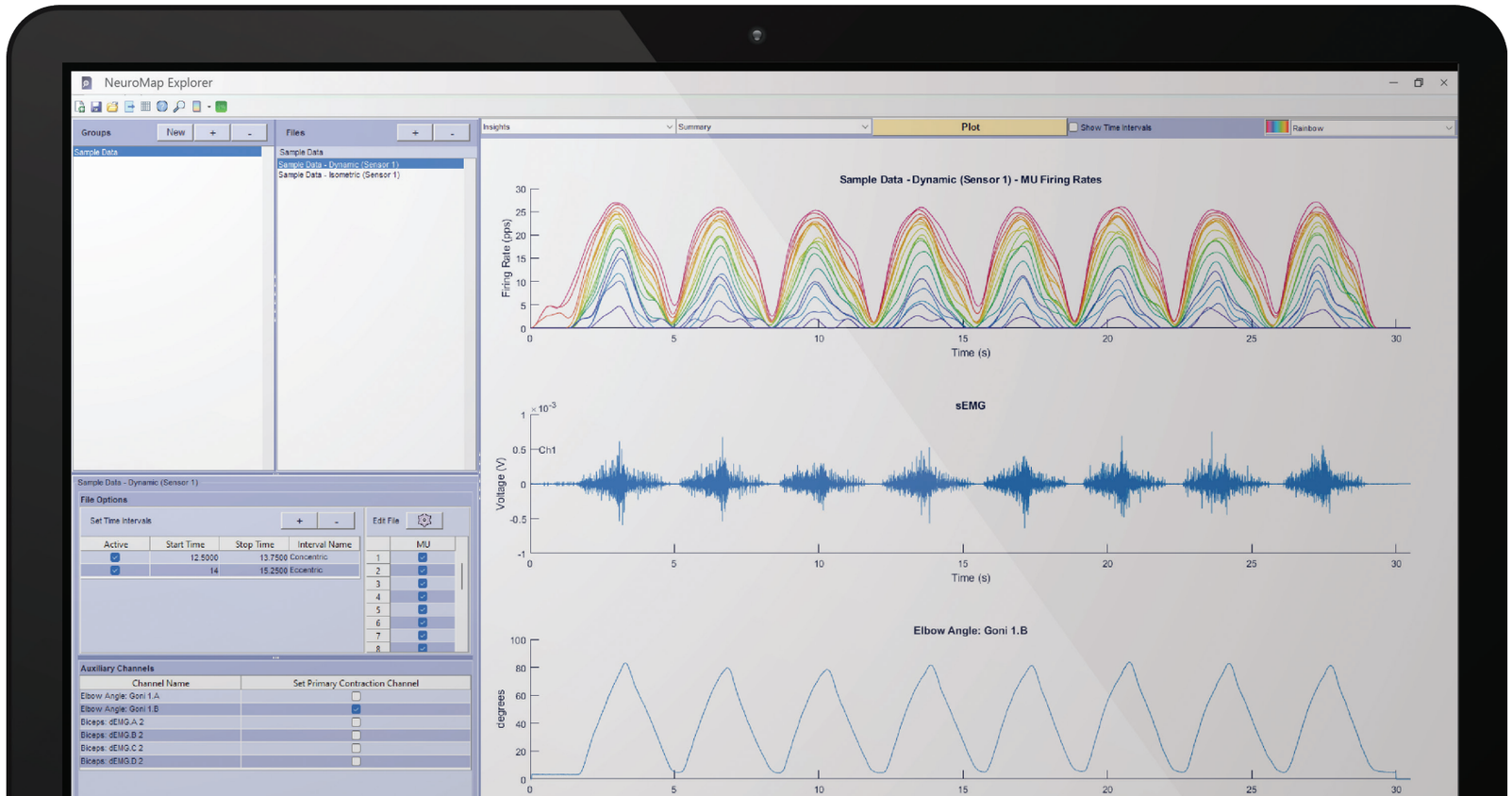
Neural Plasticity | Neuromuscular Physiology | Neuromechanics

Delsys High Density EMG technologies deliver unmatched precision and accuracy, allowing for a more detailed analysis of neural drive and muscle behavior than ever before.

Insights into Neural Drive
Quickly and accurately identify uncontaminated motor units.

Functional Data Collection
Analyze motor unit data from dynamic movement like never before.

Ease of Use
Dry electrode and easy application for long lasting results that don't compromise on signal quality.



VIRTUAL REALITY

Extend Your Research with Virtual Reality

- Multi-modal physiological sensing for performance monitoring
- Streamlined Unity integration with the Delsys API

Human-Computer Interactions | Telehealth | Digital Twins

The Trigno® Wireless Biofeedback System is a battery-powered biofeedback device that enables researchers to acquire EMG and related signals from individuals for research and wellness purposes. When directed by a physician the information can be used for relaxation training and muscle reeducation. The system is not designed for diagnostic or therapeutic applications. Interpretation of the EMG and supporting signals by a qualified individual is required.

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