core EMG

Streamlined Surface EMG

- Small, lightweight sensors
- Direct Connect sensor design
- Data recovery with Lossless technology

NORAXON®

The Core EMG System

Core EMG's small and lightweight wireless sensors transmit surface electromyography data directly from the electrode site with the Direct Connect sensor design, eliminating lead connections and the need for additional disposables like sensor tape.
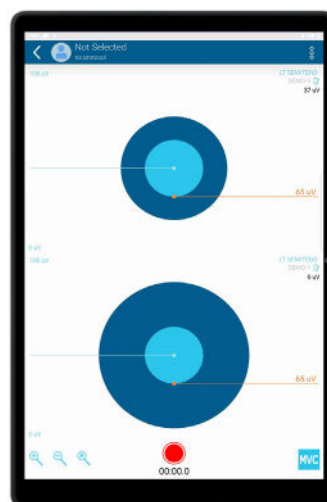
Easy to Use & Portable

Experience **streamlined efficiency** with Noraxon's Core EMG System, designed for clinicians seeking a **rapid setup** and **user-friendly** operation. **Enhance your mobility** and **simplify your workflow** with the portable Biofeedback App and combined charger/receiver hub.
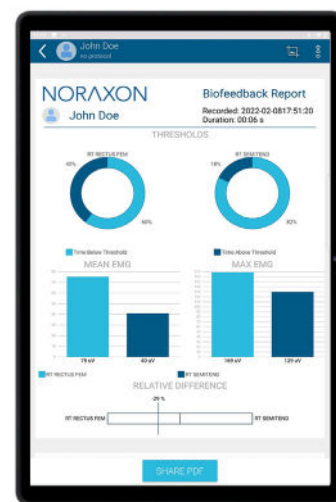
Start Measurement

Select Patient

View Real-time Data

Generate Reports

The myoMUSCLE™ software module features an easy-to-use toolset for EMG data, enabling detailed insight for performance enhancement, rehabilitation, and neuromuscular biofeedback.

All-in-One Biomechanics Software

Seamlessly collect and combine a variety of data within a unified software platform.

- Comprehensive signal processing tools
- Customizable analysis reports
- Multi-device synchronization
- Multiple data export formats
- HTTP streaming functionality

Integrated Movement Technology

Integrate Core EMG with other systems in Noraxon's multi-device platform to enhance common clinical applications such as:

Symmetry & Coordination Tests

Average Activation Patterns

EMG Amplitude Analysis

Biofeedback Training

Gait Analysis

Fatigue Analysis

TECHNICAL DATA

POWER AND SYNCHRONIZATION

Sensor

- Replaceable Li-ion coin cell battery
- 4-hour opperational runtime
- 3-hour charge time

Hub

- Power, charging, and data transfer by USB-C
- Accepts 2-5 V TTL sync input

DATA TRANSMISSION

- 2.4 GHz wireless and Bluetooth Low Energy
- 30 m wireless transmission range

DATA ACQUISITION

- 2000 Hz sample rate
- 20 Hz high-pass cuttoff
- 500 Hz low-pass cutoff
- No notch (50/60 Hz) filters
- ± 24,000 µV input range
- 24-bit ADC with dynamic resolution

EMG SIGNAL QUALITY

- <2 µV RMS baseline noise
- >90 dB CMRR

DATA RECOVERY

- 125 MB onboard memory (up to 8 hours of storage)
- High-speed data transfer via sensor dock

SIZE AND WEIGHT

Sensor

- 42 x 30 x 12.5 mm (LxWxH)
- 15 g

Hub

- 170 x 60 x 113 mm (LxWxH)
- 145 g

Scan to learn more