



## Product Overview

The TeleMyo™ 900 system is ideal for research and clinical applications for testing subjects in real time at extended distances. The system measures and processes SEMG and associated signals using Noraxon's patent-protected amplifier technology that provides virtually artifact-free signals. Data is transmitted from the subject via radio frequency to a computer-connected receiver up to 300 yards (274.32 meters) away.

With the TeleMyo 900, subjects can be tested during real-life activities, making it ideal for evaluating of individuals who are physically challenged, performing job-related tasks or participating in sports such as skiing, swimming, cycling or running. The TeleMyo 900 system provides 10 FCC approved radio bands, allowing researchers and clinicians to "stack" two or more systems and receive SEMG signals from up to 40 channels simultaneously. The battery-operated TeleMyo 900 system, including the receiver, is portable, compact and lightweight so that it can be used anywhere, indoors or outdoors. Multiple transmitters can be used easily on a single subject or on multiple subjects for simultaneous real-time monitoring.

## Benefits

- Allows for greater freedom of movement
- Provides scientifically reliable data
- Allows monitoring of 4, 8, 12, or 16 muscles simultaneously
- Compatible with motion analysis systems
- Provides virtually artifact-free signal
- Includes set bandwidth of 10-500 Hz for SEMG
- Enables quick and easy setup
- Can be used indoors or outdoors

## Features

- Wireless transmission
- Noraxon's internationally patented amplifier technology
- Eight channels standard; upgrade to 16, 24, 32, or 40 channels
- Accommodates other analog inputs
- Both raw and rectified/smoothed outputs
- Requires minimal skin preparation
- Ultra-lightweight

## Specifications

### ***Power Requirements***

- Transmitter: 9V battery
- Receiver: Rechargeable 12 VDC battery

### ***Battery Life***

- Transmitter: 2 hours (continuous use)
- Receiver: 15 hours (continuous use)

### ***Transmitter Output Power***

- 10 mW

### ***Transmitting Frequency***

- 905-928 MHz

### ***Dimensions***

- Transmitter: 6.5" L x 2.75" W x 1" H (16.5 cm L x 7cm W x 2.5 cm H)
- Receiver: 10" L x 7.2" W x 2.5" H (25.4 cm L x 18.3 cm W x 6.4 cm H)

### ***Weight***

- Transmitter: 1 lb. (.453 kg)
- Receiver: 7.5 lbs. ( 3.4 kg)

### ***Per Channel Bandwidth (-3 dB)***

- 10-500 Hz

### ***FCC Approval Numbers***

- Transmitter: IWC-TELEMYO-T
- Receiver: IWC-TELEMYO-R

### ***Overall Gain***

- 2,000 fixed

### ***Differential Input Impedance***

- >10 MOhm

***Baseline Noise***

- <1 uV RMS

***Common Mode Rejection***

- Effective 130 dB @ dc (Zero Hz)
- >100 dB @ 50/60 Hz
- Min. 85 dB through 10-500 Hz operating range

Not suitable for EU countries and Japan due to radio frequency regulations.