

 **SIERRA**<sup>®</sup> *Summit*<sup>™</sup>  
EMG • NCS • EP • ULTRASOUND



## SCALABLE HARDWARE AND SOFTWARE

Build the system you need with a variety of stimulators, amplifiers, and test protocols.

- Our most advanced amplifiers offer 1 -12 channels of sophisticated filtering and noise reduction.
- Choose from a variety of carts, computers, and monitors or provide your own.
- Configure a portable Summit™ system that can be set up for testing in a matter of seconds.



## FLEXIBLE AND FAMILIAR DESIGN

- **See it how you want to:** Custom views give you full control of displays, colors, tables, and test protocols.
- **Hear it how you want to:** Our highest sound quality is achieved with instantaneous signal processing, dual high-quality speakers, and full equalizer controls.
- **Use it how you want to:** Customize your workflow with user-defined studies and tests that can be adjusted on the fly.

## INNOVATIVE INTERFACE

### StimTroller Plus™ for NCS

- Perform an entire NCS from the palm of your hand.
- Control intensity, pulse width, distance, nerve selection, site selection, trace selection, and more.

### StimTroller Plus™ for EMG

- Control gain, sweep, run/stop, playback, and volume controls exactly where you need them - right next to your needle.

### Precise and responsive controls

- Simplified interface with programmable protocol-specific function keys and knobs.



The Sierra® Summit™ is designed for the electromyographer who prioritizes reliability and durability. Passion, experience and focus are the building blocks of Cadwell's most advanced and innovative electrodiagnostic system.

## REDUCE TESTING TIME

- Perform any NCS using only the StimTroller Plus™ controls.
- Reduce interpretation time with real-time comparisons and Tabular Data Summary View.
- Eliminate the need to report a summary of findings with auto findings composer with custom phrasing.
- Create a personalized report with just a few mouse clicks using QuickReport™ and custom templates.

## IMPROVE WORKFLOW

- Synchronized Patient Database includes all studies, reports, and other associated documentation.
- Fail-safe storage and Auto Archiving.
- Multiple EMR interface options include auto PDF export, HL7 ADT, and ORM orders inbound and results outbound.
- User management with user-specific system setup, user roles, and single log-in with Active Directory integration.

## MAXIMIZE CLINICAL INFORMATION

Seamlessly transition from a standard muscle screen to a detailed investigation without adding time or complexity.

- Simple on-screen controls and settings can be changed on the fly.
- Simultaneously display data in multiple formats to maximize extraction of clinical information and reduce study time.
- Hands-free MUP triggering, Multi-MUP analysis, turns/amplitude analysis, and real-time interference pattern analysis.
- Get immediate quantified results compared with published normals.



## STREAMLINED PROTOCOLS

Cadwell puts great effort into reducing examination time, minimizing patient discomfort, and providing a simple interface. Our latest SFEMG+ protocol gives you hands-free recording, automatic peak detection and triggering, real-time analysis with live results, and normative data for standard concentric needles. You can exclude traces and refine your results in seconds.

Request a demo to see how this powerful EMG/NCS system can increase your efficiency, accuracy and specificity.

## NOTABLE FEATURES

### SOFTWARE

QuickReport™  
CadCapture™  
Auto Findings Composer  
EMG to AVI Converter  
EMG Audio Export  
DataLAB™  
Anatomy View™  
ASCII Output Utility  
Internal Calibration Signals  
CadLink™ Information Management  
CadLink™ HL7 EMR Interface

### HARDWARE

Dual High-Power Speakers with Equalizer  
StimTroller PLUS™ full function remote and stimulator  
1-12 Channel Amplifier Options  
USB Footswitch  
Hardware Diagnostics Suite  
Electrode Continuity Check  
Advanced Stim/Trigger  
Dual Stimulators\*  
Trigger In x 4, Trigger Out x 4

## TEST PROTOCOLS

### NERVE CONDUCTION STUDIES

Motor Studies  
Sensory Studies  
Inching  
F-Wave  
H-Reflex  
Mixed Studies  
Repetitive Nerve Stimulation  
Blink Reflex (Electric and Manual Stim)  
Silent Period  
Triple Stimulation  
LLR  
Near-Nerve Studies  
MUNE - MPS/Incremental  
Collision Studies\*

### ELECTROMYOGRAPHY

Routine EMG  
Triggered EMG  
Multi MUP Analysis  
Auto Multi MUP Analysis  
Turns v. Amplitude Analysis  
Interference Pattern Analysis  
SFEMG Stimulated/Volitional\*  
Macro EMG\*  
Multi-Channel EMG  
Guided Injection Protocols

### AUTONOMIC STUDIES

Heart Rate Variability (R-R Interval)  
Valsalva, Deep Breathing, 30:15  
Sympathetic/Galvanic Skin Response

### EVOKED POTENTIALS

SEPs  
Dermatome SEPs  
AEP  
MLR\*  
LLR\*  
VEMPs\*  
ECoG\*  
P300\*  
VEP\*  
ERG\*

\*Optional upgrade

## BASE UNIT

- Dedicated keypad and knob controls
- Integrated stimulators
- Trigger in/out for peripheral equipment
- Dual high-powered speakers with software equalizer

## AMPLIFIERS

- Montage switching
- RF immunity
- Very low noise
- Impedance
- Power switches
- Calibration signals
- Excellent signal quality
- Temperature measurement
- Electrode cable continuity checking
- Fast artifact recovery
- Internal analog-to-digital conversion

## STIMTROLLER PLUS™

- Hand-held control to store traces, adjust intensity, deliver single or multiple stimulations, reverse polarity
- Adjust angle on probes or replace with standard bar or ring electrodes
- Program three buttons: run and stop EMG acquisition, distance entries, adjust EMG gain control, store EMG snapshots, move back and forth in the EMG buffer, playback EMG buffer, test selections, and volume

## HARDWARE OPTIONS

- Programmable USB Footswitch
- Second electrical stimulator
- Skin temperature probe
- Reflex hammer
- LED goggles
- Ring/Bar Switchbox
- AEP Stimulator
- VEP Monitor
- Stackable jumper cables
- Trigger In/Out cable (3.5mm stereo to 2x RCA)
- Amp/Stim Switchbox (injection studies)
- Remote Input Box and cable
- Standard laptop PC
- High performance laptop PC
- All-in-One PC
- Small Form Factor PC
- Wireless or USB mouse
- Supplies, accessories and electrodes

## CONFIGURATIONS

- Fuzion Cart: Can accommodate a laptop and printer. Includes two arm mount brackets, shelf and bin. Options: flexible and articulating arms, extra arm brackets, pullout keyboard shelf, mouse pad holder, foot-switch holder, accessories bag, monitor mount, PC shelf, Iso bin and mini shelf.
- EMG Cart: Can accommodate laptop or desktop PC and monitor, printer and isolation transformer. Includes arm bracket, keyboard and storage drawer, top and bottom shelf. Options: articulating arm, rear storage bin, bottle holder, and foot-switch holder.
- Portable system with wheeled carry case.

[www.cadwell.support](http://www.cadwell.support)