





# FUSING FORM AND FUNCTION

Cadwell<sup>®</sup> is excited to introduce Sierra<sup>®</sup> Summit<sup>™</sup> with ultrasound, a completely integrated electrodiagnostic and imaging solution. Perform an ultrasound without switching machines or even applications.

### COMPLEMENT YOUR ELECTRODIAGNOSTIC TESTING

- Confirm electrodiagnostic findings
- Detect early stage nerve damage
- Provide insight into muscle functionality
- See how movement effects the nerve
- Study the nerve along its entire course

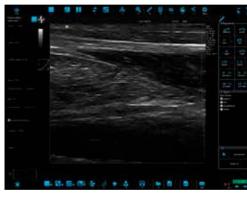
## **IMPROVE YOUR DIAGNOSIS AND TREATMENT DECISIONS**

- Improve accuracy and specificity of a diagnosis
- Identify the site of involvement and origin of compression
- Determine the need and expected outcomes of surgery
- Detect additional evidence: cysts, lipomas, compressions, entrapments, tumors, traumas and causes of lesions

### **AUGMENT YOUR NEEDLE GUIDANCE AND INJECTIONS**

- Ensure the needle is inserted in the correct muscle
- See the location of the needle within the muscle
- Measure muscle functionality pre- and post-injection
- Simultaneously hear, see and stimulate for accurate injections

#### **Median Nerve and Tendon**





#### **Median Transverse**



# Full integration makes real-time imaging a natural part of the electrodiagnostic workflow.

#### **Integrated Controls**

Easily adjust focus, frequency, depth, power, gain, grayscale modes and playback with the Sierra® Base Unit.

#### **Integrated Reports**

Include ultrasound images complete with measurements and annotations with your electrodiagnostic results.

#### **Integrated Settings**

Pre-define ultrasound structures in the Sierra Summit<sup>™</sup> with presets for depth, focus, frequency, gain and power to save time and improve clarity of specific structures.

#### **Integrated Workflow**

Switch between ultrasound and EMG or NCS with the push of a button. Include ultrasound sites in your NCS and EMG Study Lists.

#### **Concurrent Use**

Perform an ultrasound while simultaneously running volitional or stimulated EMG. Hear and Visualize while stimulating for more accurate injections and needle guidance.

## Ultrasound Options managementation

Two ultrasound hardware solutions with a variety of probes make the Sierra<sup>®</sup> Summit EMG with integrated ultrasound affordable, flexible and functional.

		The SmartUs is CE marked and is currently undergoing premarket review by FDA.
	MicrUs	SmartUs
Description	Pocket-sized, point of care, digital, black and white ultrasound diagnostic system	Color, doppler, digital, portable ultrasound diagnostic system
Modes	B, M, B+M, 4B, B+B, Spatial Compound, Trapezoid Imaging, B-Steer, Zoom	B, B+B, 4B, M, B+M, B-steer, Color Doppler, Power Doppler (PDI), Directional Power Doppler (DPDI), Continuous Wave (CW) Spectral Doppler, Pulsed Wave (PW) Spectral Doppler, High Pulse Repetition Frequency (HPRF), Duplex (B+PW/CW), Triplex (B+Color Doppler+PW/CW)
Measurements	Brightness (B): distance, length, area, circumference, volume, angle, stenosis % Motion (M): distance, time, velocity, heart rate, stenosis %	B-mode and M-mode: same as MicrUS PW-CW Spectral Doppler: velocity, PG, PR, RI, etc. PW Doppler automatic tracing and calculations
Probes/ Transducers	6 - 15 MHz Linear, 25mm 5 - 12 MHz Linear, 40 mm Wide bandwidth, multifrequency Automatic transducer recognition 2 > 31 cm scanning depth	10 - 18 MHz Linear, 30mm 7.5 - 15 MHz Linear, 40mm 7.5 - 15 MHz Linear, 25mm (small footprint) Wide bandwidth, multifrequency Automatic transducer recognition
Imaging	Automatically adjust US image size to screen resolution. Full motion and full-size real-time US. Imaging up to 120 fps. Zoom from 60 - 600% in all modes	
Save Formats	AVI, JPG, BMP, PNG, TIF, XLSX, DCM, TPD, TVD	
Software	Echo Wave II (32/64-bit Windows)	
Connections	USB 2.0/3.0 power cable	12V power adapter
Dimensions	4.2W x 4.1D x 0.8H (inches); 0.44 lb 106W x 105D x 21H (mm); 0.2 kg	6.5W x 8.2D x 2.5H (inches); 4 lbs 165W x 210D x 62H (mm); 1.8 kg



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