FUSING FORM AND FUNCTION

Cadwell® is excited to introduce Sierra® Summit™ 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  Doppler  Median Transverse
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™ 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.

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

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

<table>
<thead>
<tr>
<th>MicrUs</th>
<th>SmartUs</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Color, doppler, digital, portable ultrasound diagnostic system</td>
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<tr>
<td><strong>Modes</strong></td>
<td>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)</td>
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<tr>
<td><strong>Measurements</strong></td>
<td>B-mode and M-mode: same as MicrUS PW-CW Spectral Doppler: velocity, PG, PR, RI, etc. PW Doppler automatic tracing and calculations</td>
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<tr>
<td><strong>Probes/Transducers</strong></td>
<td>Wide bandwidth, multifrequency Automatic transducer recognition</td>
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<tr>
<td><strong>Imaging</strong></td>
<td>Wide bandwidth, multifrequency Automatic transducer recognition</td>
</tr>
<tr>
<td><strong>Save Formats</strong></td>
<td>AVI, JPG, BMP, PNG, TIF, XLSX, DCM, TPD, TVD</td>
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<tr>
<td><strong>Software</strong></td>
<td>Echo Wave II (32/64-bit Windows)</td>
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<tr>
<td><strong>Connections</strong></td>
<td>USB 2.0/3.0 power cable 12V power adapter</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td>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</td>
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PN# 190272-937-US Rev. 00

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The SmartUs is CE marked and is currently undergoing premarket review by FDA.