NeuSen W
Wireless EEG System

Portable Design
- Up to 64 channels of wireless synchronized data acquisition.
- Lightweight, compact, flexible and wearable design.
- Robust for ambulatory use in naturalistic environments.

High-Quality Signal
- High precision signal (24-bit) with low input noise (< 0.4uVrms) and high sampling rate digitizers (16kHz/channel).
- Wide dynamic range with real-time motion artifact reduction enable recording during movement.
- Real-time monitoring of signal quality via online or offline impedance checking.

Accurate Timing
- 5GHz Wi-Fi data transmission avoids data loss and signal interference.
- High-precision timing synchronization enables collection of ERP signals.
- Synchronized acquisition across multiple devices allows EEG hyperscanning and multi-subject interaction analysis.
## Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>EEG Channels</strong></td>
<td>8-64</td>
</tr>
<tr>
<td><strong>Sampling Rate</strong></td>
<td>Up to 16kHz</td>
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<tr>
<td><strong>CMRR</strong></td>
<td>≥120dB</td>
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<tr>
<td><strong>Input Impedance</strong></td>
<td>&gt;1GΩ</td>
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<td><strong>AD Resolution</strong></td>
<td>24-bit</td>
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<tr>
<td><strong>Input Noise</strong></td>
<td>0.4μVrms(1-100Hz)</td>
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<tr>
<td><strong>Dynamic Range</strong></td>
<td>±375mV</td>
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<tr>
<td><strong>Frequency Band</strong></td>
<td>DC-coupled Amplifiers retain low-frequency signal (0-4kHz)</td>
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<tr>
<td><strong>Wireless Event and Data Synchronization</strong></td>
<td>Timing jitter &lt; 1ms</td>
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<td><strong>Replaceable lithium battery</strong></td>
<td>Run-time of 4 hours</td>
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