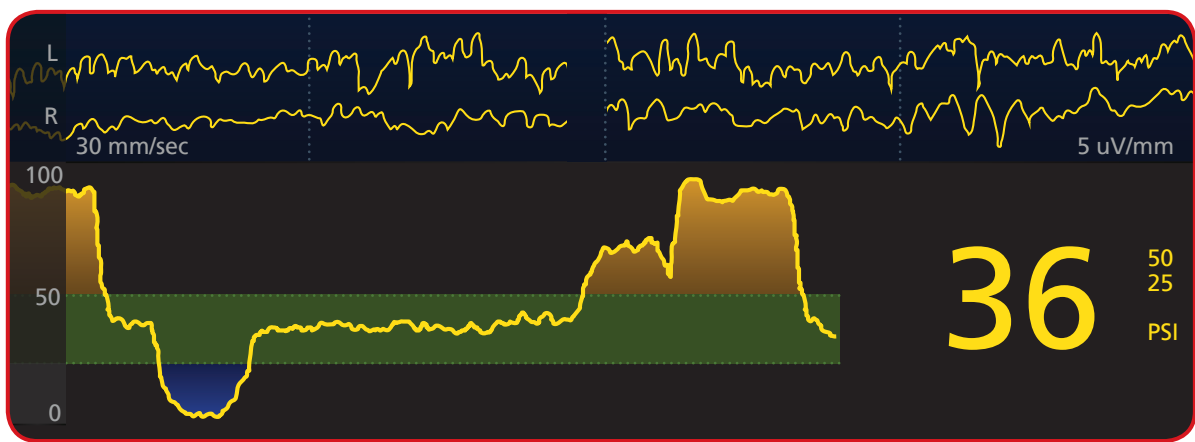


Next Generation SedLine[®] Brain Function Monitor

More Complete Data, **Now With An Enhanced Patient State Index**



Next Generation SedLine

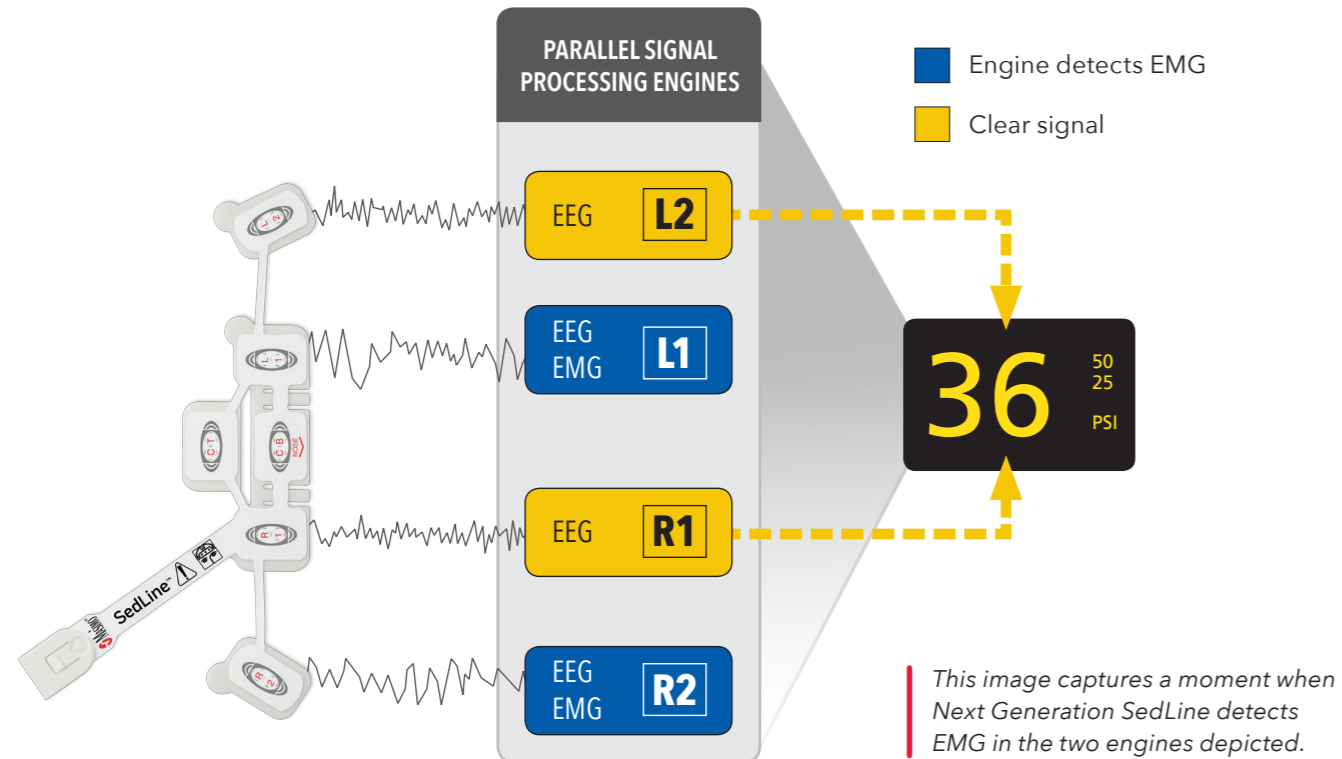
- > Less susceptibility to EMG interference, by utilising Masimo's Parallel Signal Processing Engines to enhance EEG derived parameters even in the presence of EMG
- > Improved Patient State Index (PSI) performance in low power EEG cases, using adaptive signal processing that is not limited by defined bands



Reducing Electromyography (EMG) Susceptibility

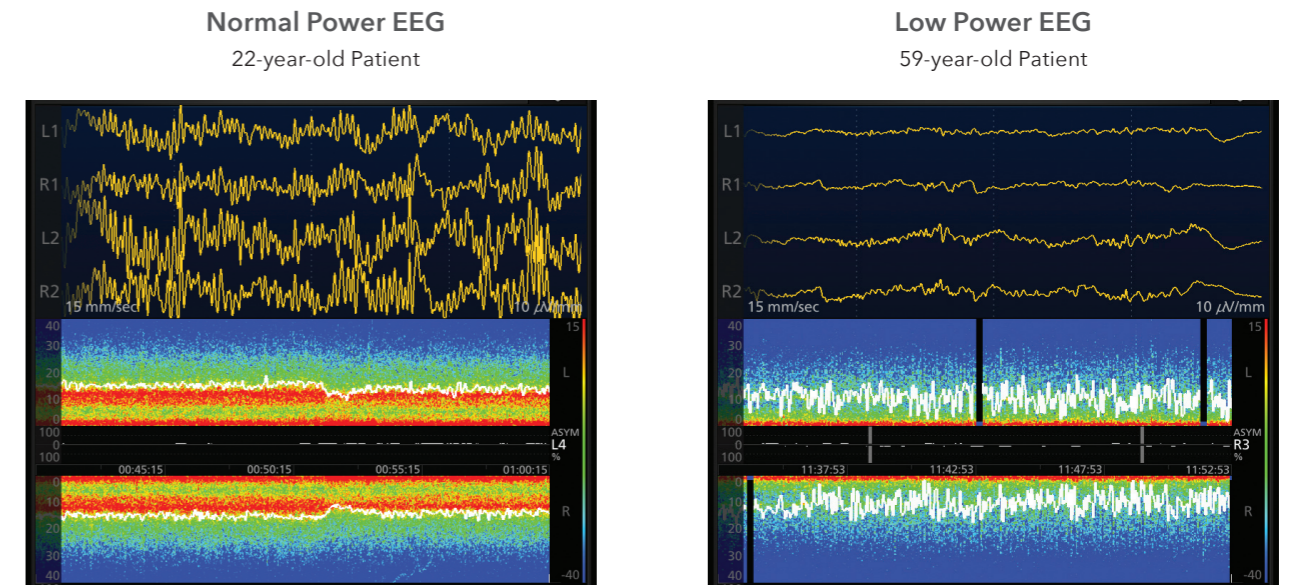
Next Generation SedLine Brain Function Monitor utilises Masimo's Parallel Signal Processing Engines to compute a EEG derived parameter including PSI that is less influenced by EMG.

EMG can interfere with EEG signals used in brain function monitoring. Researchers found that EMG interference existed in up to **38%** of monitored patients.^{1,2}



Improved PSI Performance in Low Power EEG

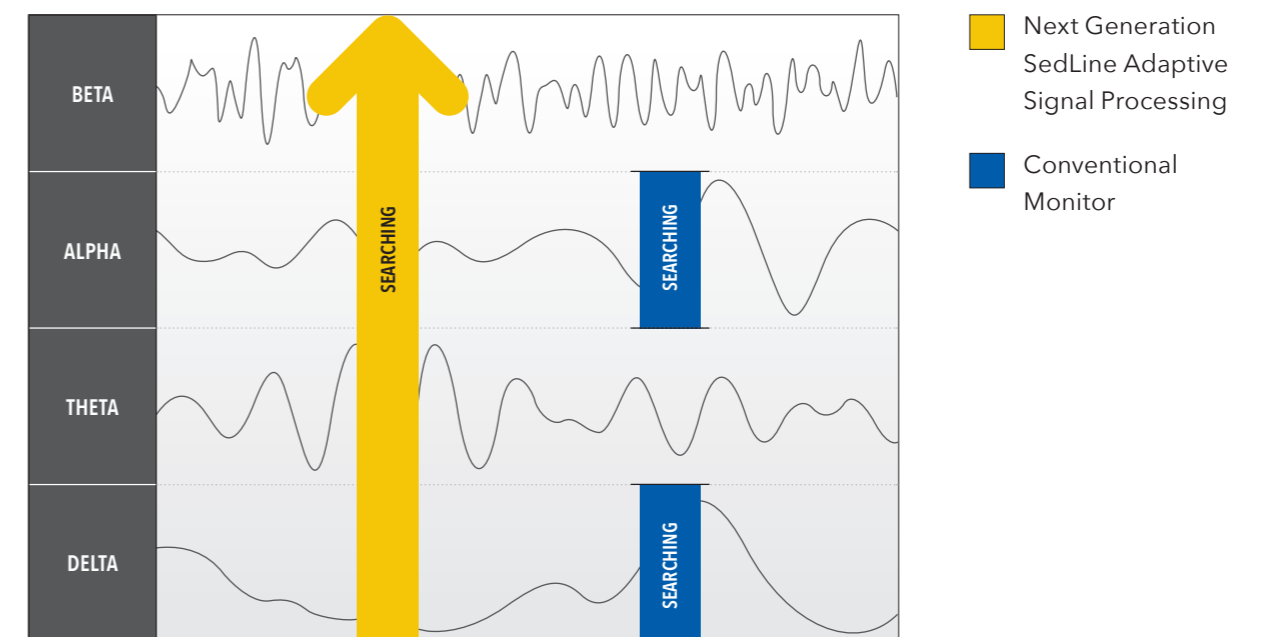
Power across all frequency bands decreases with age. Low power, which is often present in the geriatric patient, can present a challenge for conventional brain function monitors.³



Subjects with normal and low power EEG both administered Propofol and in a comparable anaesthetic state.

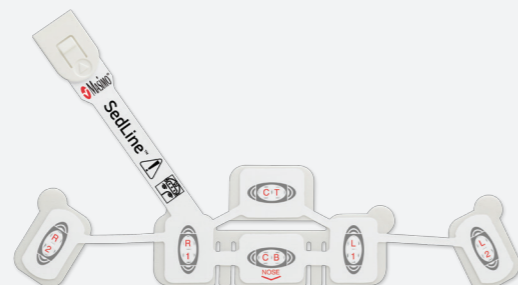
Next Generation PSI uses adaptive signal processing with band-independent features to offer improved PSI performance in cases of low power EEG.

Next Generation PSI Searches For EEG Features Across Many Frequency Bands



The SedLine EEG Sensor

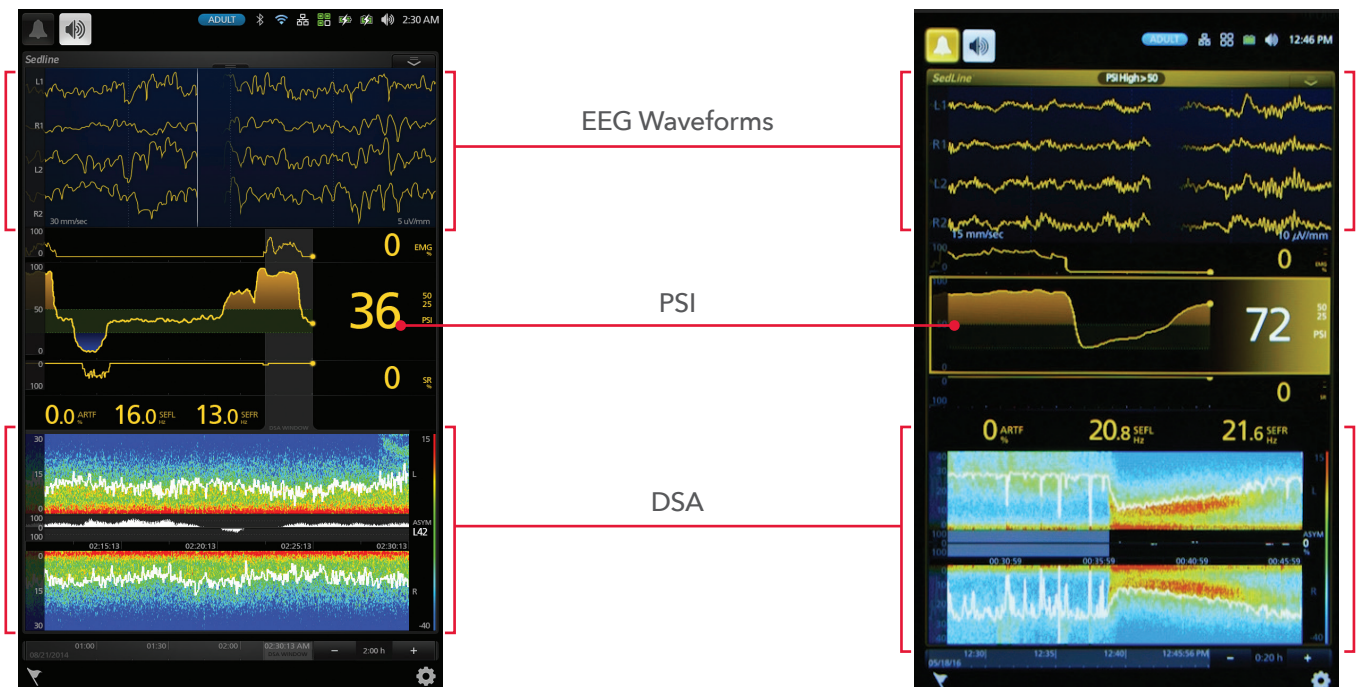
- > Four active leads collect data in areas of frontal lobe
- > Streamlined design for simple application
- > Soft foam pads improve patient comfort



SedLine Features

- > Four simultaneous EEG leads to enable continuous assessment of both sides of the brain
- > Includes PSI, a processed EEG parameter related to the effect of anaesthetic agents
- > Density Spectral Array (DSA) offers easy-to-interpret, high-resolution display of bi-hemispheric activity
- > Multiple screen views expand information while enabling customisation in the OR and ICU

Monitor Display



SedLine Specifications

PHYSICAL CHARACTERISTICS

Module Physical Dimensions

Width	33mm (1 3/10 in)
Length	102mm (4 in)
Thickness	19mm (3/4 in)

ENVIRONMENTAL

Module Operating Conditions

Temperature at Ambient Humidity	5–40° C
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Module Storage and Shipping Conditions

Temperature at Ambient Humidity	-40–70° C
Storage Humidity	15–95%, non-condensing
Exposure to Pressure	500–1060 mbar

Sensor Specifications

Patient Weight	> 30 kg
Application Site	Forehead
Active Channels	4
Active Electrodes	L1, L2, R1, and R2

Ground Electrode	CB
Reference Electrode	CT
Duration of Use	Maximum of 24 hours
Latex Content	Does not contain natural rubber latex

¹ Aho, A.J. et al. *Acta Anaesthesiologica Scandinavica*.10.1111/j.1399-6576. ² Narasway et al. *Critical Care Med*. 2002 Jul;30(7):1483-7. ³ Purdon, P et al. *British Journal of Anaesthesia*. 10.1093 46-57.

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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