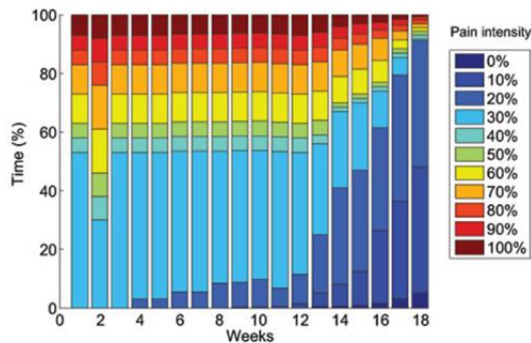


Clinical Evidence:

Neuromotus has shown to reduce Phantom Limb Pain by approximately 50% in chronic intractable sufferers after 12 sessions. This was the result of a single-group clinical trial performed in patients who had previously tried several clinically available alternatives and found no relief for an average of 10 years. At the 12th treatment session, improvements were still observable which indicates that more treatment sessions might further reduce pain.

Ortiz-Catalan et al 2016, The Lancet, 388:2885–94. doi: 10.1016/S0140-6736(16)31598-7

Case Study:



The patient lost his arm 48 years ago, and since then had suffered from Phantom Limb Pain varying from moderate to unbearable. He was never entirely free of pain. By using the technology developed by Integrum, the patient pain was dramatically reduced. He now has periods where he is entirely free of pain, and he is no longer awakened by intense periods of pain at night.

Product Description:



The product comes with:

1. Neuromotus Main Device
2. Neuromotus Dongle
3. Electrode Leads (8 channels)
4. Marker (arm/leg)
5. Charger
6. Leg Band with Belt Clip
7. Storage Box

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Integrum

Take control of your
PHANTOM LIMB PAIN
with
NEUROMOTUS



What is Neuromotus?

Neuromotus is an electronic device intended as a tool for neuromuscular rehabilitation and pathological pain treatment caused by motor-impairment and/or amputation.



How it works?

Neuromotus is a non-invasive device that captures, processes and decodes myoelectric signals to infer motor intention (limb movements). The decoded movements are then displayed in virtual or augmented reality providing real-time feedback to the user. Conventional and clinically available electromyography electrodes placed over the skin are used to capture muscular activity.

Treatment Objective

Neuromotus is a tool to **PROMOTE MOTOR EXECUTION** of the affected limb. Depending on the patient's condition, the physician/therapist can use it for neuromuscular rehabilitation and pathological pain treatment.

Neuromotus Operation:



Myoelectric signals are obtained by connecting the leads from the Neuromotus to surface electrodes placed on the muscles.

Patient executes the movements instructed on the screen. The myoelectric signals from the patient's muscles are transmitted to a personal computer via Bluetooth.

Neuromotus software uses the data to train algorithms to predict patient's intended movements.

Patients can then choose to control a virtual limb in augmented or virtual reality, or use the recorded movements for game control.

Software Features:

- Patients can select the movements they would like to train (individual or simultaneous).
- Records myoelectric signals and decodes motor intention from them.
- Allows control of a virtual limb in virtual or augmented reality.
- Allows training and game-control with the trained movements.
- Provides a pain tracking questionnaire to log and track patient progress.
- Available for Upper Limb and Lower Limb.

