Cerenion C-Trend™
Bittium BrainStatus™ together with Cerenion C-Trend™ is the world's first practical method for measuring the brain function of intensive care patients. C-Trend™ combines standard EEG-measurement with advanced machine learning algorithms and artificial intelligence.

Bittium BrainStatus™ is easy to set up and together with the C-Trend™ Index it supports continuous monitoring and allows an at-a-glance view to brain activity over long monitoring periods.

C-Trend™ Index
The C-Trend™ Index provides reliable information based on the brain's slow-wave activity seen during sedation.

The health of the brain is distilled from a complex EEG waveform plot to an objective and easy to interpret index, ranging from 0 to 100. Values higher than 80 are considered to be normal for sedated patients.

Bittium

Connectivity
to be trusted.

Bittium is a trusted Nordic company with over 30 years of expertise in advanced radio communication technologies and biosignal processing.

Bittium provides reliable and secure solutions for connectivity, tactical communications and measuring and monitoring of biosignals.

Bittium offers medical technology in biosignals measuring and monitoring for cardiology, neurophysiology, neuroscience, rehabilitation, occupational health and sports medicine. Bittium develops cutting-edge technology for cardiac applications such as holtering, cardiac telemetry and cardiac rehabilitation, as well as high-end EEG solutions for TMS-EEG and fMRI-EEG applications, remote monitoring EEG applications, and emergency EEG applications. The products meet European Union medical CE requirements and the company's quality system meets ISO 9001 and ISO 13485 directive MDD 93/42/EEC requirements.

Medical Products
CE 0537
Bittium Faros™
Bittium Cardiac Rehabilitation System™
Bittium NeurOne™
Bittium BrainStatus™

FOR MORE INFORMATION, PLEASE CONTACT:
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The Next Generation of Brain Monitoring for Intensive Care

Bittium BrainStatus™

Bittium

Fast and Easy Brain Monitoring for Emergency and ICU

Advantages*

- Enables reliable quick diagnostics.
- Speeds up significantly the monitoring process as there is no need for any pre-treatment of the patient's skin.
- The electrodes get automatically placed in their correct places because the headband is flexible and solid.
- There is no need to move the patient's head when putting on the Bittium BrainStatus™ electrode set.

Due to the fact that the electrode set is easy and fast to use, it is particularly well-suited to be used in emergency care, in ambulances and even in field conditions.

* Key advantages for Bittium BrainStatus™ and Cerenion C-Trend™ according to studies carried out at Helsinki University Hospital and Oulu University Hospital.

Bittium BrainStatus™

Disposable sub-hairline electrode	**16 channels** optional with jack box/adapter	**24 bit** sampling
80 gram weight	**Offline** SD card slot	**Online** WiFi & Bluetooth

Bittium BrainStatus™

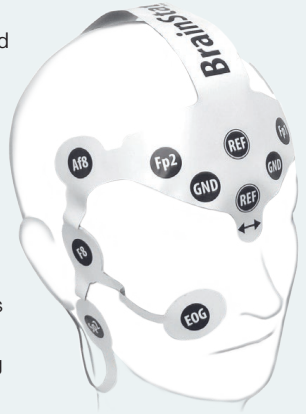
The fastest way to get EEG from an unconcious patient.

Key Facts

- Very easy electrode setup enables C-Trend™ Index and EEG readings in a couple of minutes.
- The fastest way to get EEG from an unconscious patient.
- Easy-to-use tablet PC interface for real-time brain function measurement.
- Universal cable set with connectivity to all major EEG devices.
- Hygienic single-pack with usage instructions.
- The C-Trend™ Index, aEEG, alpha-delta ratio and BSR coming in 2019.

Brain-related injuries and dysfunctions cause high costs to society. In emergency first response, early objective assessment of an unconscious patient is highly desirable to optimize treatment paths and improve treatment outcome. The earlier the assessment, the better the results.

Bittium BrainStatus™ is novel EEG electrode, made to answer the diagnostics problems in emergency dispatch and other applications which require fast and easy EEG readouts. Bittium BrainStatus™ is disposable, and unlike traditional headbands, it's placed on the hairless area on the patient's head. This makes proper placement easier and faster, without moving the patient's head.



Application Areas*

Hypoxic brain injury after cardiac arrest: Predicting the neurological outcome.

Deep anesthesia status epilepticus treatments: Monitoring burst suppression ratio (BSR).

Nonconvulsive status epilepticus: Detecting changes in the EEG activity which might refer to epileptic seizures.

Subarachnoid hemorrhage: Detecting changes in the EEG activity which might refer to brain hypoxia.

*Coming in 2019