

# 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. The company creates connectivity solutions for reliable, secure communications, and provides medical technology solutions in biosignals measuring.

**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, ISO 13485 directive MDD 93/42/EEC requirements.

## Medical Products

NeurOne  
BrainStatus  
Faros  
Cardiac Rehabilitation system



FOR MORE INFORMATION, PLEASE CONTACT:

[medical@bittium.com](mailto:medical@bittium.com)

[www.bittium.com](http://www.bittium.com)

Copyright © 2017 Bittium. All rights reserved.

# Revealing the Secrets of the Brain

NeurOne Tesla



# Bittium

# NeurOne Tesla

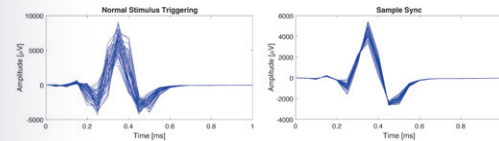


**NeurOne Tesla** is a versatile system and it can be used widely in different neuroscience and psychological applications. NeurOne Tesla is especially designed for use together with transcranial magnetic stimulators having extremely large dynamic range and special reduction technology to remove magnetic artifacts in short latencies. Advanced amplifier design enables using both AC and DC recording modes the way you want. The innovative Tesla MRI amplifier brings MRI compatibility to the system.

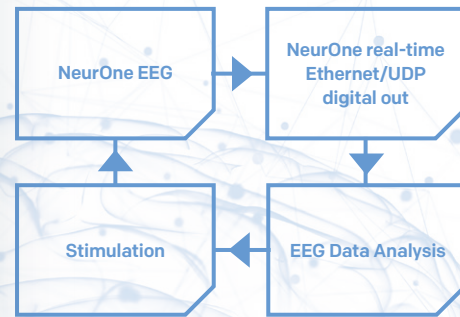
## Advanced Technology

- 24 bit resolution
- High speed sampling up to 80 000 Hz per channel
- Wide band DC-3500 Hz
- Large dynamic range +/- 430 mV
- AC and DC measurement modes switchable channel by channel
- 40-channel amplifiers having 32 EEG and 8 bipolar channels
- 40 to 160 channels in basic version
- Windows 64 bit software with online averaging and TMS artifact removal
- Active or passive electrodes
- Video option
- Real time digital out option

## TMS-EEG with sample synchronized triggering



## EEG data UPD output for real-time application



## Applications

- fMRI-EEG
- TMS-EEG with sample synchronized triggering
- EEG data UPD output for real-time application
- EP & ERP research
- EMG research with very high resolution and high amount of channels
- Up to 30 person group studies
- BCI Applications

Users of NeurOne in the USA please note:  
Caution – For research use only. Not for use in diagnostic procedures. Device may be used for non-clinical laboratory research.