



NeoRec cap is intended to record EEG and 3D acceleration events to files of different formats (EDF+ 16 bit, BDF+ 24 bit, GDF 32 bit) or transmit it on-line via stream LSL (Lab Streaming Layer) for analyze by third-party software as MATLAB / EEGLAB, OpenViBE etc.

Specification

Channels	16 DC monopolar according to GND
Dynamic range	± 150 mV, ± 300 mV
Data resolution	24 bit
Output sampling rate (OSR)	125 Hz, 250 Hz, 500 Hz (8 channels), 1000 Hz (4 channels)
Passband (-3 dB)	0.– 430 Hz @OSR 1000 Hz
Input impedance at DC	more 1 GOhm
Self-noise	2.5 uV p-p @ 0.1-30 Hz
Electrode impedance measuring	1..140 kOhm $\pm 10\%$
Events from internal smart accelerometer	activity (4 steps of sensitivity), change orientation, free fall
Events from button	press
Check of battery status	smart by charge/discharge counting
Work from full internal battery	more 12 hours
Charging of internal battery	2.5 hour from +5V USB adapter
Firmware update	Wireless by special mobile application
Wireless data interface	BLE 4.2
Wireless certification	CE, FCC USA, Canada, Japan, Korea, Taiwan
Size	68 x 38 x 17 mm
Weight	35 g

Set

- EEG amplifier NB2-EEG16
- Electrode cap PROFESSIONAL/BASE NB2-16, size by choose
- Ear electrode PROFESSIONAL/BASE with ear fixator
- USB charger cable, User manual, Plastic box for storage
- NeoRec software for Windows 10 PC (Internet loading)

