

General Technical parameters for headbox 1166-EEG AMP, INBOX 1166A :

Number of EEG channels	64
Sampling frequency	250 ÷ 3000 Hz
Input impedance	
- Differential impedance	> 20 (MΩ)
- For the cophase signal	> 100 (MΩ)
CMMR with "GND" reference	> 120 dB
Noise level	< Less than 1 mV rms. at a bandwidth of 1 - 70 Hz.
Max. input signal EEG Amps	10mV _{p-p}
Sample rate for EEG channels	32768 samples per second per channel
Digital resolution fro EEG channles	16 bits
Types of filters	low-pass filter: 0,03 ÷ 10 s high-pass filter: 10 ÷ 70 Hz notch filter 50/60 Hz
Time constant	0,3 s(it is possible to change the time constant)
Sensitivity	10 μV/cm ÷ 2 mV/cm
Frequency of the photostimulator	1 ÷ 60 Hz
Image shift on the screen	10 ÷ 240 mm/s
Calibration	automatic

Hardware and software requirements:

Software requirement:	Windows XP/Vista/7 (32 or 64 bits)
Minimum hardware configuration:	Intel Core 2 Duo 1.8GHz, 2GHz RAM for XP and 3GHz RAM for Vista or Win7, 320GB HDD, port USB 2.0, graphics card min. 128 MB with DirectX 9.0.C, monitor LCD min. 19".

Amplifier specifications:

1166-EEG Amplifier:

Designed for ultra portability and patient convenience in smallest possible case	+
Designed for maximum system performance, up to 256 channels with 4 amplifiers	+
EEG Channels have digital FIR filter with linear phase and -40dB at 1/2 sample rate	+
DC channels	no
G1/G2 active Gnd. for suppression of mains interference in noisy environments	+
Multipin connector for direct Electrode Cap connection 68	68 pin
Large Touchproof input box connectable with flat cable for flexibility	INBOX-1066
Clip-on Touchproof input box for ultra portability	INBOX-1166
Touchproof input box with holder slot for amplifier and mounting possibility on a microphone stand.	INBOX-1266
SpO2 input	+
EVENT input	+
Selectable SpO2 + EVENT data output. (Uses 1 EEG channel for data transport)	+
Power and control over Daisy chain BRAINBUS Connection. Low voltage power supply. (5 VDC)	+
BRAINBUS Address automatically selected by INBOX channel range	4
Real input calibration, calibration voltage is applied to electrode input	+
Electrode impedance check with indication in EEG application running on PC	+
Extended Brainbox protocol	+
This "smallest of the world" EEG amplifier	9 x 10 x 1 cm
Weight	100 gram

INBOX - 1166:

Clip-on for smallest size possible	+
Touchproof EEG sockets	64
Touchproof Gnd sockets	2
G1/G2 sockets	2
BRAINBUS address coding possibilities	4
Channel Identification type A (Address 1)	1-64
Channel Identification type B (Address 2)	65-128
Channel Identification type C (Address 3)	129-192
Channel Identification type D (Address 4)	193-256
Diemensions (including amplifier)	9.5 x11x 3 cm



Photo of maximum 256 Ch. system using 4 BRAINBOX® EEG-1166 amplifiers.