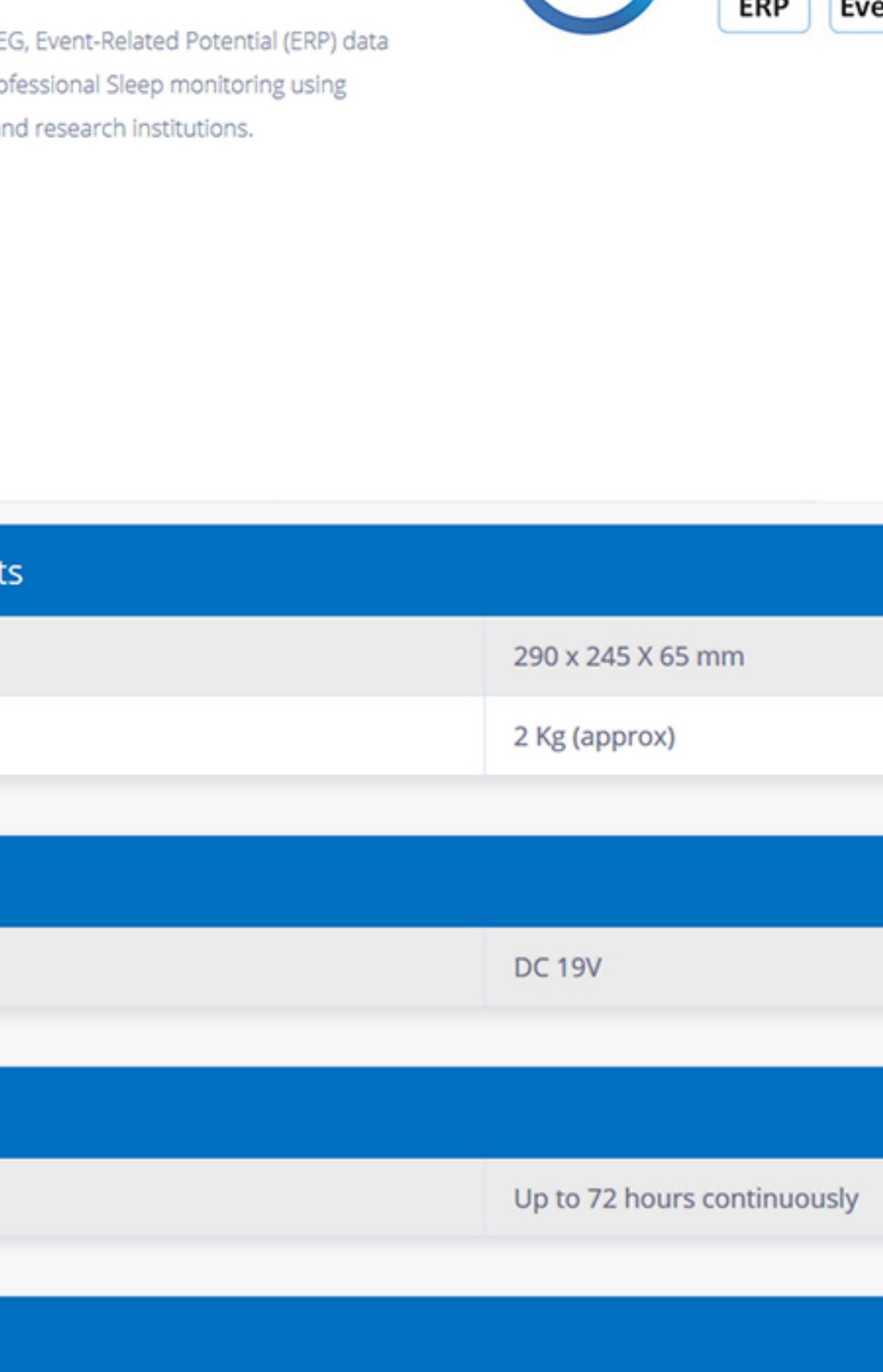


## Products

## EEG

## ELETROENCEPHALOGRAM (EEG) SYSTEM

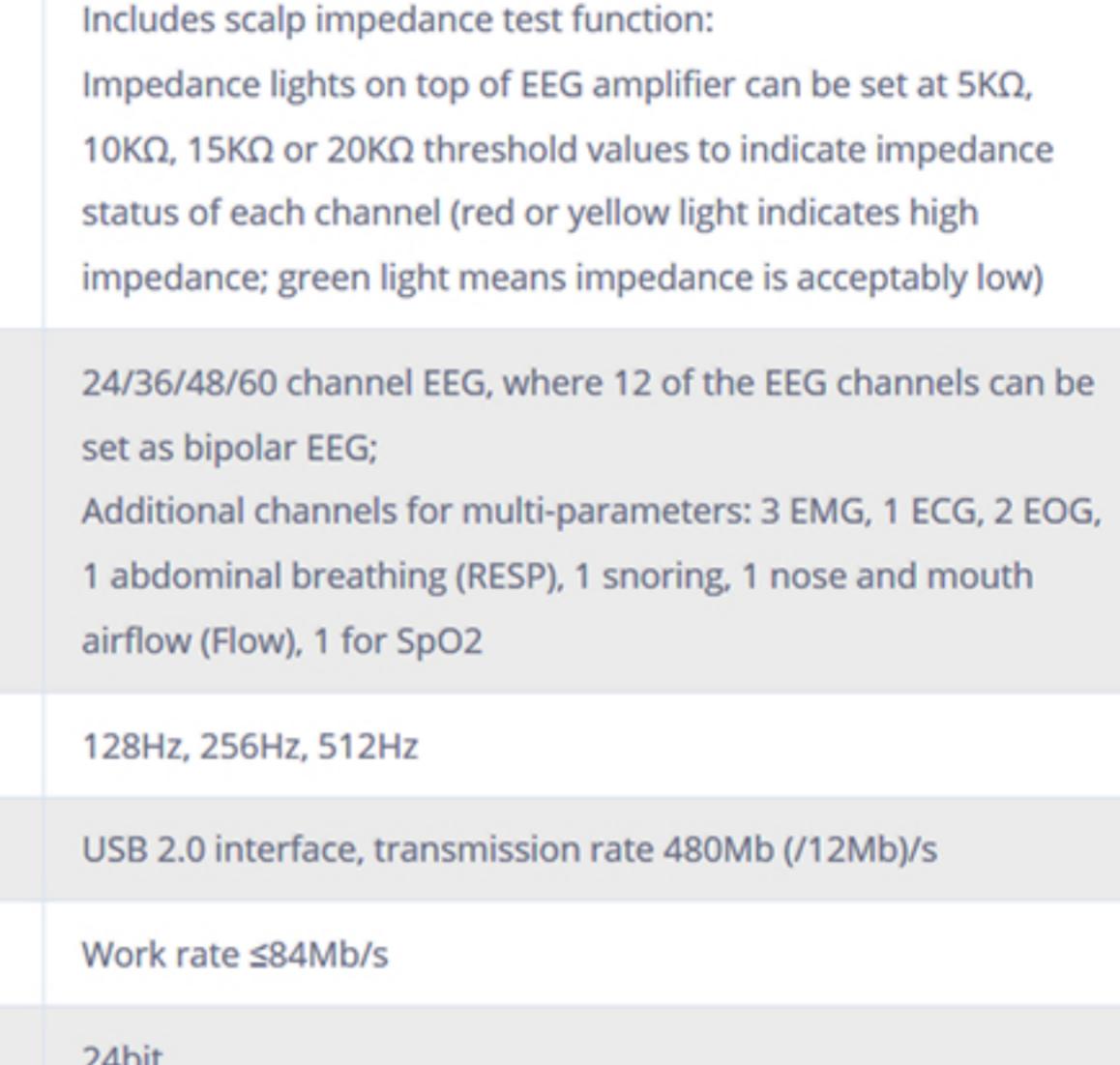


## EEG

## ELETROENCEPHALOGRAM (EEG) SYSTEM

NS-EEG-D1 is a digital EEG device available in 24/36/48/60 channels. It delivers high quality EEG signals through state-of-the-art hardware and software design, built-in impedance test module and anti-interference data transmission technology.

This device can be used for routine EEG, Event-Related Potential (ERP) data acquisition and analysis, as well as professional Sleep monitoring using Polysomnography (PSG) for medical and research institutions.

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## Technical Specifications

## Dimensions &amp; Weights

size	290 x 245 X 65 mm
Amplifier Weight	2 Kg (approx)

## Power Supply

Power	DC 19V
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## Operation Time

Duration	Up to 72 hours continuously
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## Performance

Input Impedance	$\geq 1000\text{M}\Omega$
Noise level	<0.4 $\mu\text{V}$ (rms)
CMRR	$\geq 110\text{dB}$
Resistance polarization voltage	$\pm 300\text{mV}$
Frequency characteristics	0.5Hz ~ 10KHz, error of +5% ~ -30%
Impedance Test	Includes scalp impedance test function: Impedance lights on top of EEG amplifier can be set at 5K $\Omega$ , 10K $\Omega$ , 15K $\Omega$ or 20K $\Omega$ threshold values to indicate impedance status of each channel (red or yellow light indicates high impedance; green light means impedance is acceptably low)
Channel Configuration	24/36/48/60 channel EEG, where 12 of the EEG channels can be set as bipolar EEG; Additional channels for multi-parameters: 3 EMG, 1 ECG, 2 EOG, 1 abdominal breathing (RESP), 1 snoring, 1 nose and mouth airflow (Flow), 1 for SpO2
Sampling Frequency	128Hz, 256Hz, 512Hz
Interface Technology	USB 2.0 interface, transmission rate 480Mb (/12Mb)/s
Fiber optic modules	Work rate $\leq 84\text{Mb}/\text{s}$
Precision sampling resolution	24bit
Low-pass filter	15Hz, 30Hz, 40Hz, 60Hz, 120Hz, 250Hz, 1KHz, 3KHz
Time constant	0.01s, 0.02s, 0.03s, 0.1s, 0.2s, 0.3s, 1s, 2s, 3s
Amplification	1 ~ 10,000 times

## Functional Modules

## 1. Routine EEG

## 2. Polysomnography (PSG) / Sleep Study

- EOG
- Air flow
- Snoring
- ECG
- EMG
- SpO2
- Thoracic and Abdominal Respiration

## 3. Event-Related Potential (ERP)

- Current Stimulation
- Audio Stimulation
- Visual Stimulation



## EEG/PSG

## System Key Features

- High quality signal with optical fiber isolation
- DC battery power operation eliminates AC power line interference
- Built-in impedance testing function
- Built-in impedance testing function
- Ergonomically designed single shielded cup/clip electrodes with touch-proof connectors (1.5mm)
- Choice of different configurations:

- 24/36/48/60 channels unipolar EEG
- 12 channels bipolar EEG
- Synchronous acquisition, editing and display of EEG and video signals
- Synchronised EEG examination and PSG recording enable for more sophisticated clinical applications

## PSG Key Features:

- Synchronised EEG examination and PSG recording enable for more sophisticated clinical applications
- PSG hardware integrated into EEG amplifier – No additional hardware space, negligible weight difference, easy hardware management and connection
- Multiple channels available for PSG recording:
  - EOG
  - EMG
  - Air Flow
  - SpO2
  - Snoring
  - Thoracic and Abdominal Respiration (RESP)
  - ECG
- Respiration leading tone is featured to gain patient's respiration frequency during deep respiration events

## EEG/ERP

## System Key Features

- High quality signal with optical fiber isolation
- DC battery power operation eliminates AC power line interference
- Built-in impedance testing function
- Built-in impedance testing function
- Ergonomically designed single shielded cup/clip electrodes with touch-proof connectors (1.5mm)
- Choice of different configurations:

- 24/36/48/60 channels unipolar EEG
- 12 channels bipolar EEG
- Synchronous acquisition, editing and display of EEG and video signals
- Synchronised EEG examination and PSG recording enable for more sophisticated clinical applications

## ERP Key Features:

- Choice of acoustic, visual and current stimulation
- ERP recognition potentials comprising of P300, N400, CNV and MMN
- Stimulation synchronized with EEG waveform acquisition and configurable stimulation parameters and patterns
- ERP data averaging function for better case assessment
- Diversified data measurement tools for ERP latent period and amplitude measurement
- Multiple ERP(s) available to be replayed and compared concurrently



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