

## **ATTACHMENT NO. 1**

### **DESCRIPTION OF THE SUBJECT OF THE ORDER (OPZ)**

#### **OPEN PROCEDURE W.PS-361/11/2025**

The subject of the procurement is the purchase of equipment for the recording of electroencephalographic (EEG) data along with the specified accessories. The offered device must be: brand new and not previously used, including for demonstration purposes, and approved for use in the territory of the Republic of Poland, bearing the CE marking. As evidence of conformity with essential requirements, the device must comply with the following standards: EN60601-1 and EN61326.

#### **Device**

1. Electroencephalography system with 24-bit AD conversion with SAR, sampling rate 16 kHz per channel
  - a) a system for 64 active EEG electrodes (expandable up to 128 electrodes) and 8 channels for physiological measurements; necessary to provide digital communication with software for presentation of experiments (e.g. Presentation, E-Prime);
  - b) with an amplifier module system configured for 64 + 8 channels, suitable for EEG, ECG, EMG, 16 kHz sampling rate per channel;
  - c) with a USB2 receiver, necessary to send the data from an AD-box to a computer;
  - d) with a USB trigger interface, compatible with programs such as Presentation, E-Prime;
  - e) with two Li-ion batteries (3.7V, 18650 type) with charger (long battery life on a single charge >8h required);
  - f) compatible with Ag-AgCl active electrode sets in 10/20 system with MK3 type connector, cable length not less than 140 cm;
  - g) compatible with auxiliary sensors, such as a respiratory belt, with automatic recognition and configuration by the system.

#### **Required accessories and consumables**

1. Software for EEG recording and basic signal processing with the following functionality: (1) data recording, (2) on-line preview, (3) offset view, (4) down-sampling, (5) scaling, (6) reference selection, (7) filtering.
2. Electrodes
  - a. Two sets of 32 active electrodes (PIN type) with MK3 connectors, forming a working set for an EEG system configured for 64 channels, compatible with the electroencephalograph that is one of the components in the procurement. Ag-AgCl, 10/20 system; cable length not less than 140 cm.
  - b. One set of 8 active flat electrodes (FLAT type) with Touchproof connectors, compatible with the electroencephalograph that is one of the components in the procurement. Cable length not less than 150 cm.

- c. A set of CMS/DRL electrodes (PIN type) with a 4-pin connector, compatible with the electroencephalograph that is one of the components in the procurement. Cable length not less than 160 cm.