



# Medical Electrodes and Accessories



## Instructions for use

### Model: BM

Please read the instruction book carefully before using 

#### 1. Overview

This specific product is an EEG cap. The cap itself is made of soft, stretchy material and has multiple channels of electrodes fixed on the cap following the 10-20 system (eg, CZ, P4, etc). The electrode is comprised of an electrode sensor which is pure silver or silver base coated with silver chloride, a 1.5m lead wire and a rubber holder. All the electrode wires are braided into a string terminated with a connector such as DB25. The EEG caps are compatible with various EEG equipments through Greentek adapters

#### 2. Intended use

The EEG cap will be used in both clinical and research applications. There are several different types and sizes of this EEG cap. The examples are listed as follows

Product ID	Number of channels	Size	User
BM-LA01-1023	23	L	Adult
BM-LA01-2023	23	M	Adult
BM-LA01-3023	23	S	Adult and children above age 10
BM-LA01-4023	23	XS	Children
BM-LA01-5023	23	In I	Children
BM-LA01-6023	23	In II	Children
BM-LA01-7011	11	In III	New born infant

#### 3. Principle

Bio-potential is a basic physiological phenomenon of the human body which provides very important information for medical science and clinical applications. Electrodes are a key element for the acquisition of biopotential, they can transmit the physiological and pathological signals into electrical signals which can be analysed by computer. The conductive gel establishes an electrical path between the human body and the electrodes

#### 4 Main technical characteristics

Key parameters of the electrodes in the caps, measured in physiological saline, are as follows

- a) AC Impedance:  $\leq 0.8$  K $\Omega$  at 10Hz;
- b) DC Bias:  $\leq 10$  mV;
- c) Potential Drift:  $\leq \pm 10$  mV/h

#### 5. Method











- 1) Prepare patient skin by applying skin preparation gel where necessary,
- 2) Choose correct size EEG cap and put it on the patient's head, making sure that the electrodes are in the right positions;
- 3) Inject conductive gel into electrode's gel holder through the hole in the top of the electrode,
- 4) Connect the EEG cap with an EEG cable adapter, and connect the adapter to the measuring instrument;
- 5) Adjust the instrument if necessary and start the measurement;
- 6) After the measurement is finished, soak the cap in clean water for about half an hour, then clean the gel inside the electrodes with clean water and dry the cap in air.



#### 6. Precaution

- 1) Only for in-vitro measurement.
- 2) If the wire is aged and obviously fractured, please use with caution.
- 3) Do not pull the wire forcibly.
- 4) Recommended storage environment: dry, temperature: 5-30 C(41-86 F) and without caustic gas
- 5) Be careful if skin becomes seriously irritated.
- 6) Do not put the electrodes on scar tissues and inflammations.

#### 7. Validity Date: 2 years

	Batch number		Date of Manufacture
	Please read the instruction book carefully before using		Validity
	Warning, please refer to the instructions in the annex		Manufacturer
	Keep away from sunlight		Keep dry
	European union authorized representative		
	The product meets the basic requirements of European medical devices directive 93/42/EEC		



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