

MB 11 BERAphone®

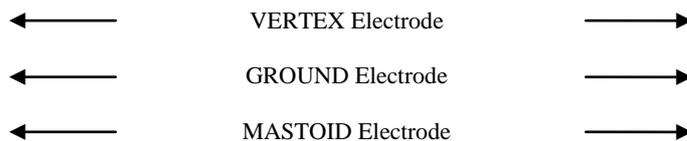
Quick Guide

1. Prepare the MB 11 system

- Connect the MB 11 ...to the USB port of your notebook or PC
- Start your notebook/PC ...and wait until the operating system has finished booting
- Start the MB 11 software ...by selecting the desktop icon or by the respective start menu item

2. Prepare the baby

- The baby should be asleep or be very calm The BERAphone® collects electric signals which are generated by the brain. It is important that the baby is asleep or in a quiet state (minimal sucking, blinking or moving).
- Skin should be clean The skin needs to be clean and free from lotion, cream or oil from the bath.
- “Mark” the contact points Apply a small amount of electrode gel on the 3 BERAphone electrodes and position the BERAphone® on the baby’s head to mark the contact points. (Loosen blankets, if necessary, to access the neck and mastoid area.) Note that the vertex electrode can be rotated to the left to fit smaller heads). Remove the BERAphone and note the gel residue at the contact points.
- Apply gel onto contact points Put a drop of electrode gel on your finger and massage the gel into each of the marked contact points on the baby’s head. (In order to improve the conductivity, rub each point about 10-15 times with an adequate quantity of gel. To avoid gel bridges, massage horizontally and in parallel lines; see left picture below.)
- Apply gel on electrodes Put a drop of electrode gel on your finger and apply a small amount onto each electrode.
(Don’t pour the gel directly from the bottle onto the electrode. Too much gel might cause a short circuit. This is not dangerous for the child, but the BERAphone® would not work)



The VERTEX is toward the midline of the head, forward near the hair line
 The GROUND is positioned just above the ear
 The MASTOID is behind the ear lobe on the mastoid bone

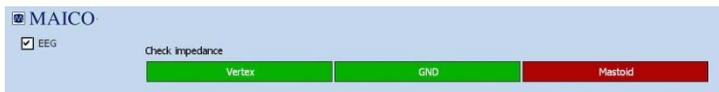


3. Enter the patient information, select the ear and start the measurement

- Enter Baby’s Information Enter the baby’s information or select the baby’s name from “Today’s List”
- Select the test ear L = Left R = Right
- Click on « Measure » in order to enter the measurement screen
- Position the BERAphone® Place the BERAphone on the baby’s head, positioning the electrodes on the contact points. Make sure that the earphone cushion surrounds the ear and contacts the baby’s head all around its circumference. Do not apply pressure with the BERAphone! The electrodes have a spring mechanism that allows them to make contact without the need to apply pressure.
- Start the measurement by clicking on « Start Measurement »

4. Verification of the impedance

On top of the screen, view the « Check Impedance » traffic light display that provides feedback about the quality of the contact of the electrodes with each contact point.



- Red = poor impedance
- Yellow = marginally acceptable impedance
- Green = good impedance

If any traffic light remains red: rub the relevant contact point again with more gel, move the BERAPHone slightly to the prepared contact point, and/or apply a little more gel to the electrode to achieve a yellow or green indicator.

The measurement will start automatically when all three signals remain green or yellow for 7-8 seconds.

5. Signal quality

After a successful impedance check, the screening begins automatically and the Impedance Check traffic light display will be replaced with a « Signal Quality » bar.



- Red = poor signal quality
- Yellow = marginally adequate quality
- Green = good quality

The signal quality is determined by the amount of artifact that is detected in the EEG response measured by the electrodes.

- If the signal quality remains red or is very unstable, flashing rapidly from red to green, refer to troubleshooting guide.

6. Measurement results



Example result : PASS



Example result : REFER

- During the measurement, a test progress line will appear and grow as each one second EEG sample is collected and processed. (When artifact occurs the test progress line will automatically stop growing until good quality EEG data resumes.)
- When the test progress line reaches the green area, the pass criterion is achieved and the screening result is PASS.
(The shape of the test progress line and the time it takes to arrive at a Pass will vary.)
- If no response is detected, the test progress line will not reach the green area. The test will continue for 180 seconds (excluding time when artifacts are occurring) and then terminate with a REFER result displayed in the bottom right corner of the display.
- A REFER result does not necessarily indicate that the child has a hearing impairment. Consult your screening program's protocol regarding the procedure for rescreening or referring for diagnostic follow-up.
- Results are saved automatically