

This message was sent to early users of the bio-amp. The problem was corrected for high-imp bioamps with  $S/N \geq 2000$ .

The polarity of the 4-channel high impedance biological amplifiers for extracellular recording is inverted (i.e. the output is multiplied by -1). The polarity of the 1-channel amplifiers is correct. The polarity reversal is on the amplifiers in the headstage. The reason the 1-channel probe cable also reverses the polarity, so the signal that is output is correct from the 1-channel amp.

To have this problem fixed:

If you have a 4-channel amplifier: Send back the HS4 Headstage only. You do not need to send back your probe cable or the DB4 controller.

If you have a 1-channel amplifier, you may choose to keep using it, since the polarity is not reversed. However, if you want to have the problem fixed, send in both the probe cable and the HS4 headstage. I would encourage you to do this, because if you ever have to get a new probe cable in the future, the polarity would be reversed, because the headstage problem will have been fixed.

Do not hesitate to contact us with any questions. It will take approximately 1 week (not longer) from the time we receive the headstage until the time it will be returned.

Please enclose a short note saying that you are returning the headstage for the polarity correction and your mailing address. We hope this does not cause you too much inconvenience.

Sincerely,  
David Mann