

Setup for Single Channel ABR

using a Duet

Single Channel Mode

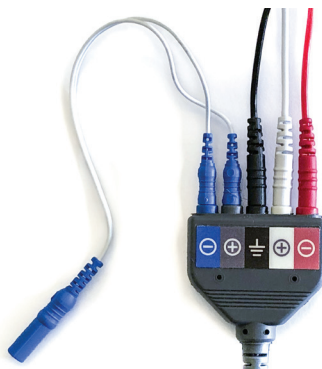
The Duet device with SmartEP can be used as a single channel system with automatic switching of the polarity from negative to ground. The Duet can be set to single-channel acquisition mode, only when using the auditory modality option for ABR. Changing from Dual Channel mode to Single Channel mode can be done from the Duet Mode section of the Protocol menu by choosing one of single channel options found in **[PROTOCOL > DUET MODE]**. Make sure to choose the option corresponding to the cable you will be using. When using either of the single channel options, the polarities of the electrodes will change automatically based on the selected software settings.

Patient Cables

Choose **[SINGLE CHANNEL USING 3 LEAD CABLE]** when using either the 3 Snap Lead Patient Cable or the 3 Electrode Lead Patient Cable. The White electrode will always be the Non-Inverting(+), while the **Red** and **Blue** will automatically switch between Inverting (-) and Ground.

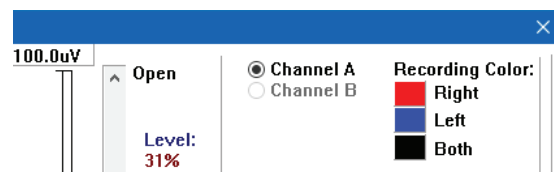


Choose **[SINGLE CHANNEL USING 5 LEAD CABLE]** when using the 5 Electrode Lead Patient Cable. The White electrode will always be the Non-Inverting(+), while the **Red** and **Black** will automatically switch between Inverting (-) and Ground. The **Blue** and **Gray** are not used and should be joined using a Y-Adaptor.

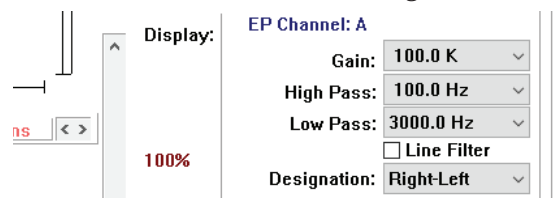


Amplifier Setup for ABR

When using single channel mode, only Channel A will be available in the Amplifier window, while Channel B will be disabled.

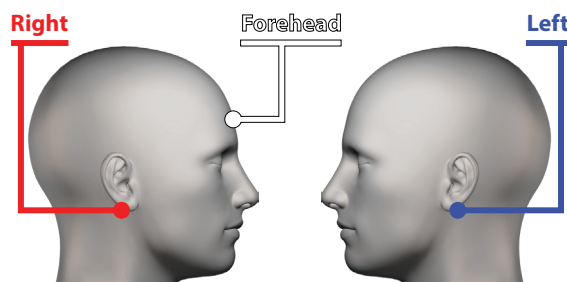


In the channel settings panel, the designation for Channel A should be set to Right-Left.

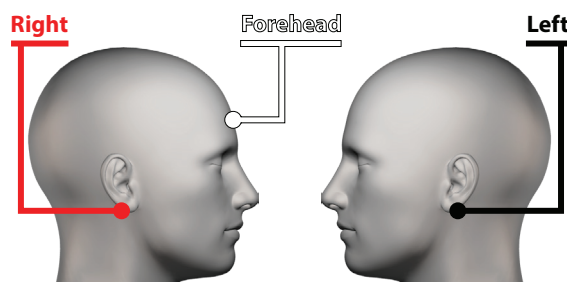


Electrode Placement

The following image shows the electrode setup for either the 3 Snap Lead Patient Cable or the 3 Electrode Lead Patient Cable.



The following image shows the electrode setup when using 5 Electrode Lead Patient Cable. In this setup, the socket end of the Y-Adaptor cable is left disconnected.



Acquisition

When acquiring, the electrode matching the selected stimulation ear will be set to be the inverting electrode, while the opposite side electrode will be set to ground.