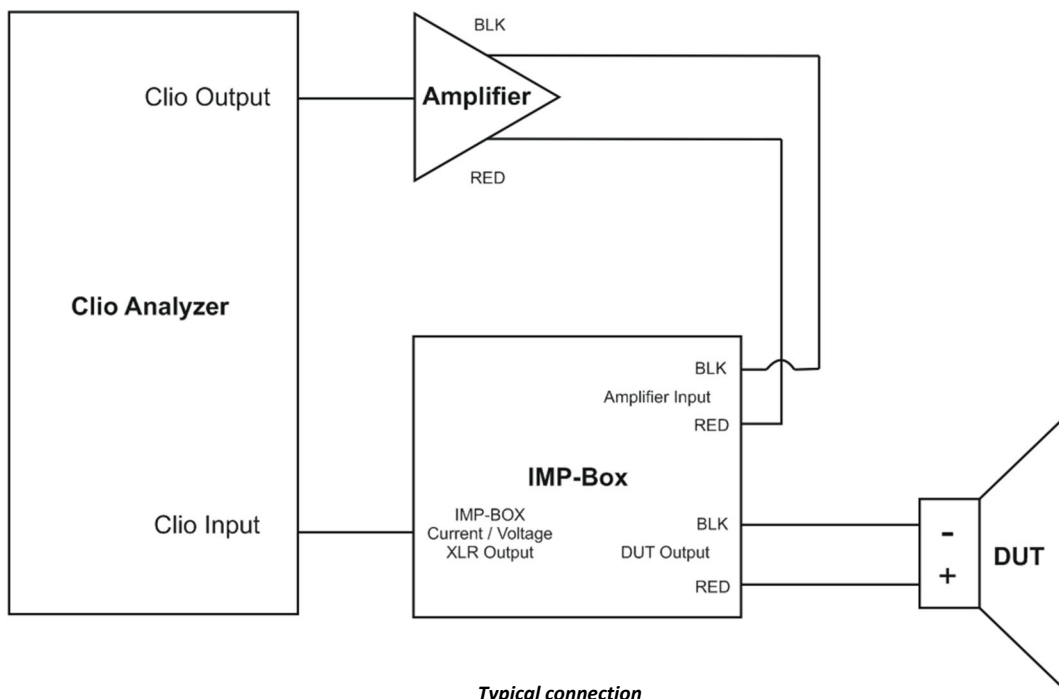


## Application Note

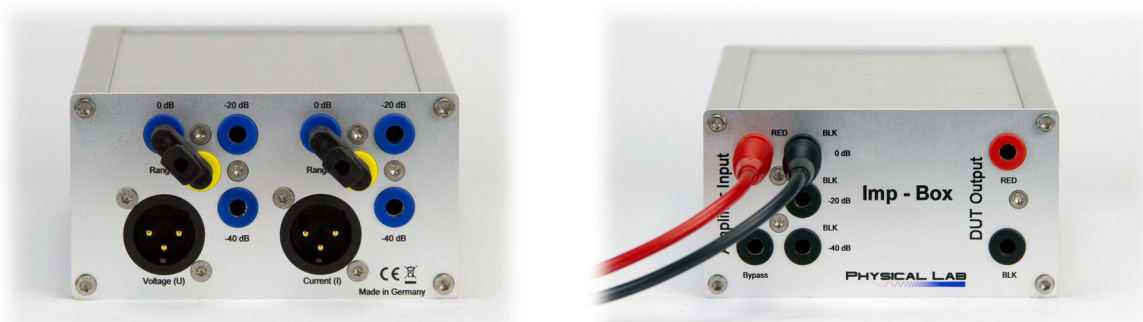
### Using the IMP-Box with Audiomatica Clio (not Pocket version)

The Imp-Box is the perfect utility for precise impedance measurements using a Clio analyzer. For voltage and current measurements with higher levels, an amplifier is needed. Please note that it should not be a bridged mode one. For very low levels you can use the Clio output directly without an external amplifier.



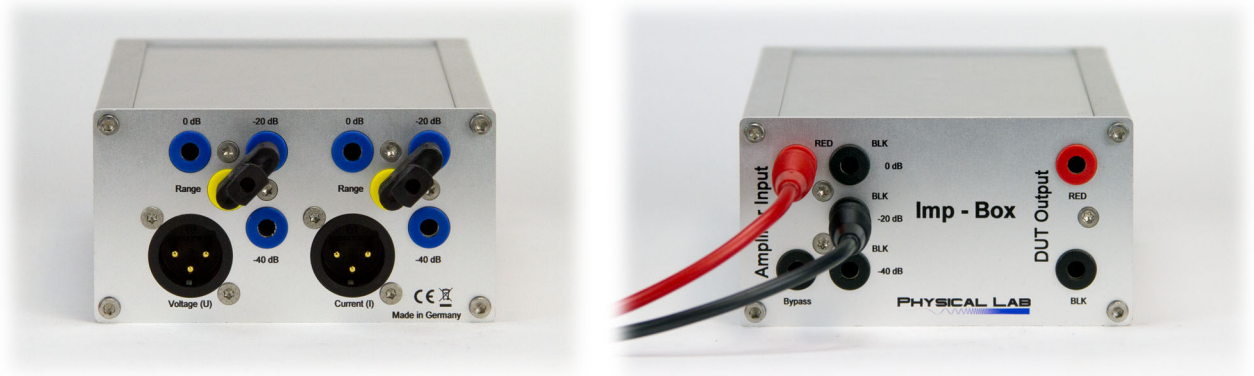
Typical connection

As you can see on the scheme above the connection is really easy. Simply connect your amplifier outputs to the red and black (select your attenuation on the black input) inputs of the IMP-Box. You should use the same attenuation on the outputs of the IMP-Box. This can simply be done by using the dual test plugs provided with your IMP-Box.



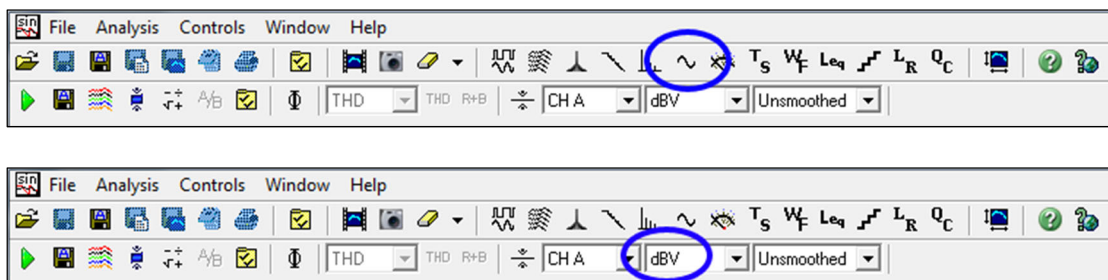
Example for 0dB Mode

# IMP-Box

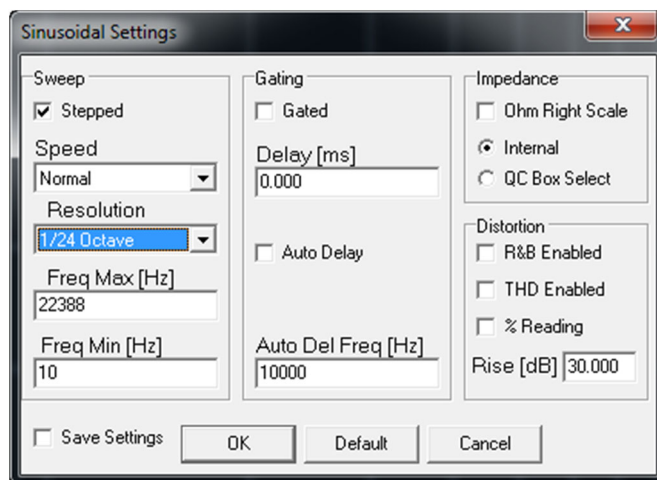


Example for -20dB Mode

Start first with a voltage Sweep. Connect the voltage XLR output from the IMP-Box to the Clio input. Then select the sinusoidal mode in the toolbar and dBV as unit.

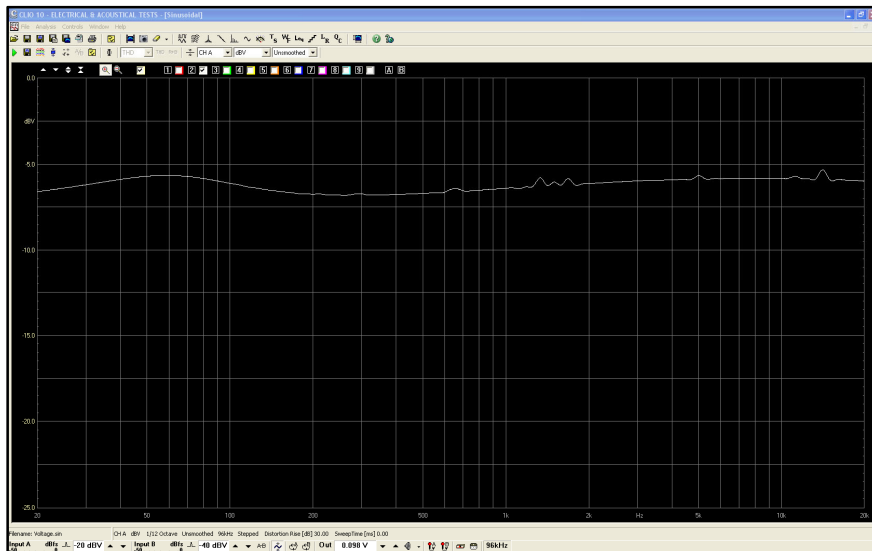


Open the sinusoidal settings menu and choose the stepped sweep and the resolution desired.



Select the output voltage in Clio and perform the voltage sweep. Save the measurement when you are finished. You should see now a function like on the following picture.

# IMP-Box



*Voltage sweep*

After you saved the voltage curve you can change the output of the IMP-Box. Use now the current output for the next sweep. Don't change the settings. Again save your result when finished. The current sweep should look like an inverted impedance curve.



*Current sweep*

Now you can open the processing tools and choose the CV mode. Use 1Ω for all attenuation values of the IMP-Box. Choose your saved voltage curve and press OK.

