

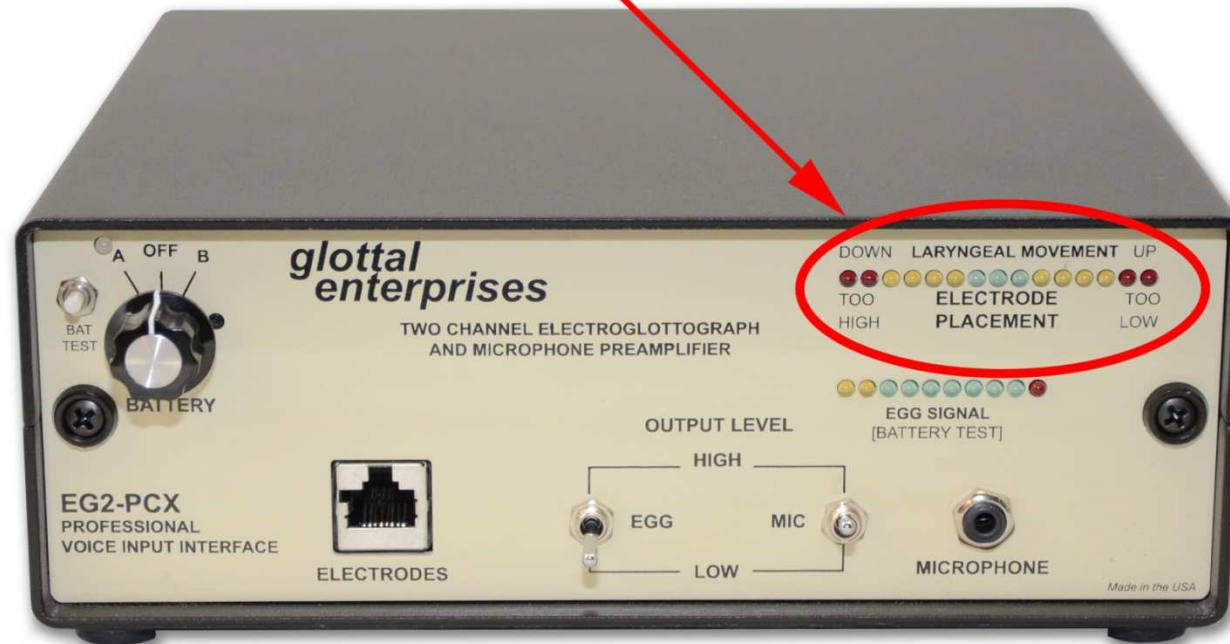
# EG2-PCX2 Electroglossograph



**GLOTTAL**  
**ENTERPRISES**

# Two-Channel Configuration Allowing Electrode Placement Feedback

**Larynx Position Indicator**



- Allows user to know that they are using the optimum placement of the electrodes.
- You are assured that electrodes will be in the same place for consistency when comparing data from one session to another.
- Saves the user time as they will know during the recording process if improper electrode placement will result in a unacceptable recording.

# Video Showing how Two-Channel Configuration Allows Electrode Placement Feedback



<https://www.youtube.com/watch?v=s-UrRb9AxC8>

# Analog Line-Level Output for Use With Any Data Acquisition System



- User can easily connect whatever data acquisition system they prefer to use such as Dataq, National Instruments or one of the Glottal Enterprises analysis systems (Phasecomp, Waveview or Aeroview)

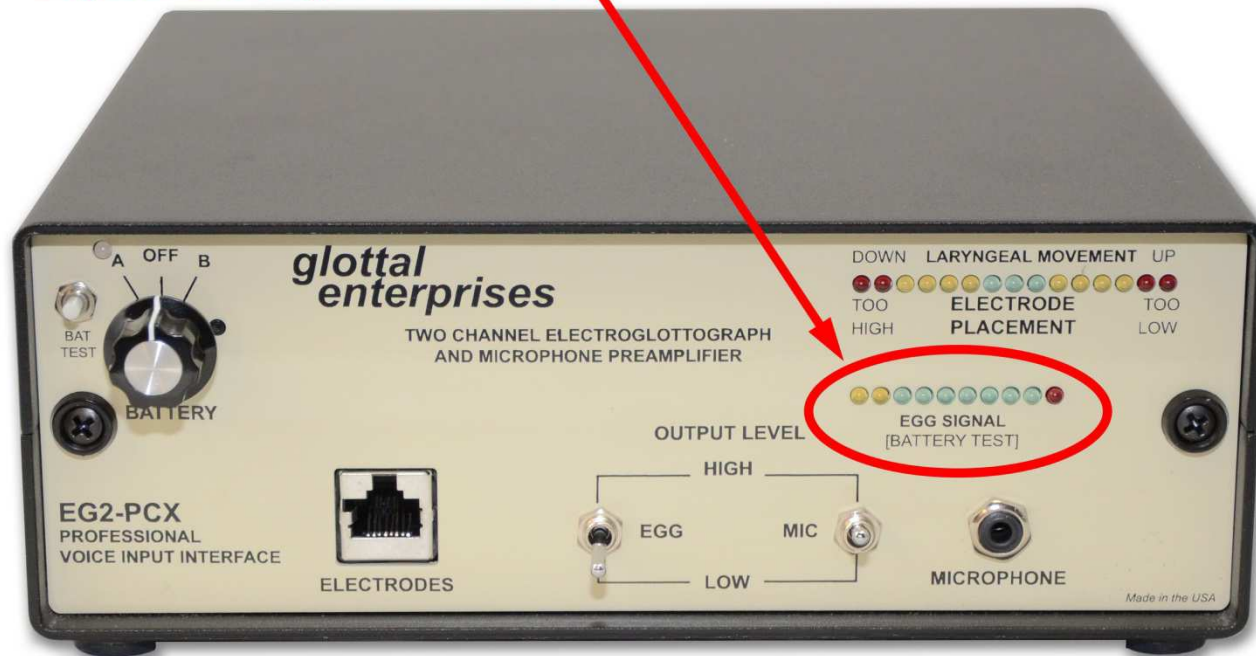
# USB Connectivity Allowing Use With Any Windows Desktop or Laptop PC



- The EGG Package comes with the necessary low noise USB cable.
- Plugs directly into the USB port, no special wiring or other equipment is necessary.

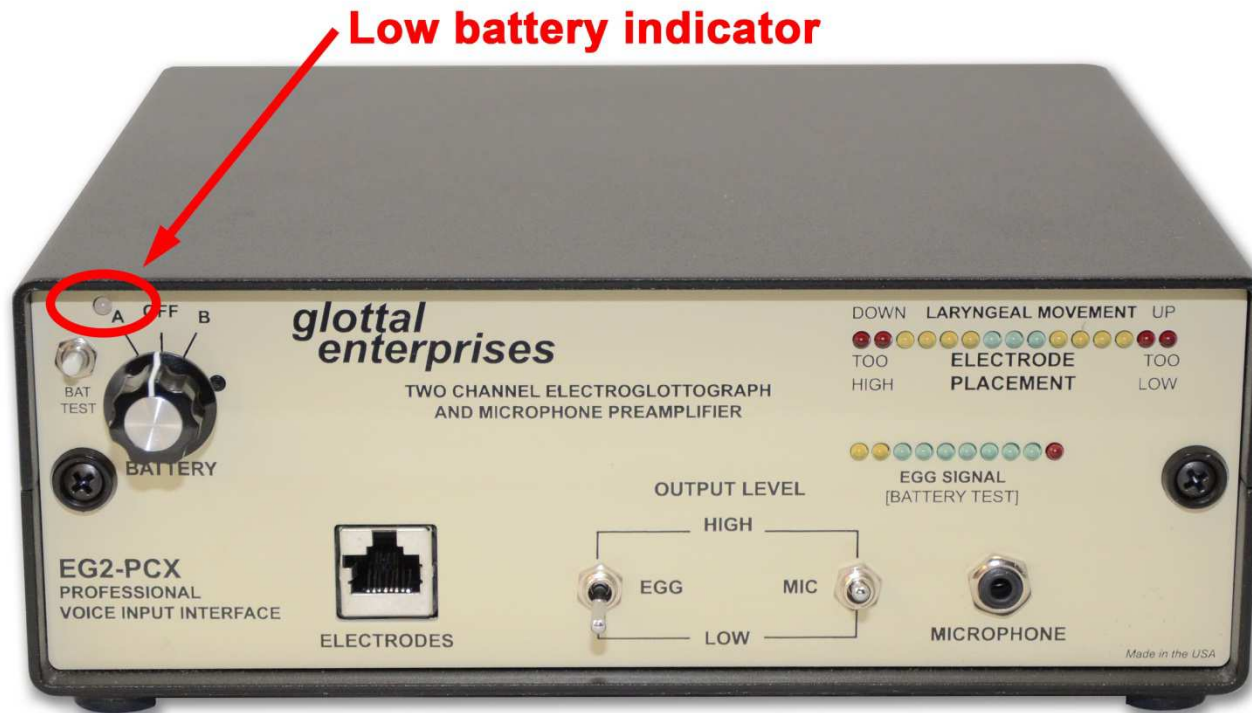
# Signal Strength Indicator on Unit

**Signal Strength Indicator**



- Signal Strength Indicator allows you to separate between a good signal and those that are too low for accurate waveform representation.

# Low Battery Indicator Light



- There are two rechargeable batteries. Can easily switch to second battery when the first one is out.
- Each battery should run for 12 hours.
- The EGG CANNOT run when plugged in. It was designed this way to avoid any noise from the line power.
- The EGG is portable and can be taken into places where there is no power available.



# Included Research-Quality Electret Microphone

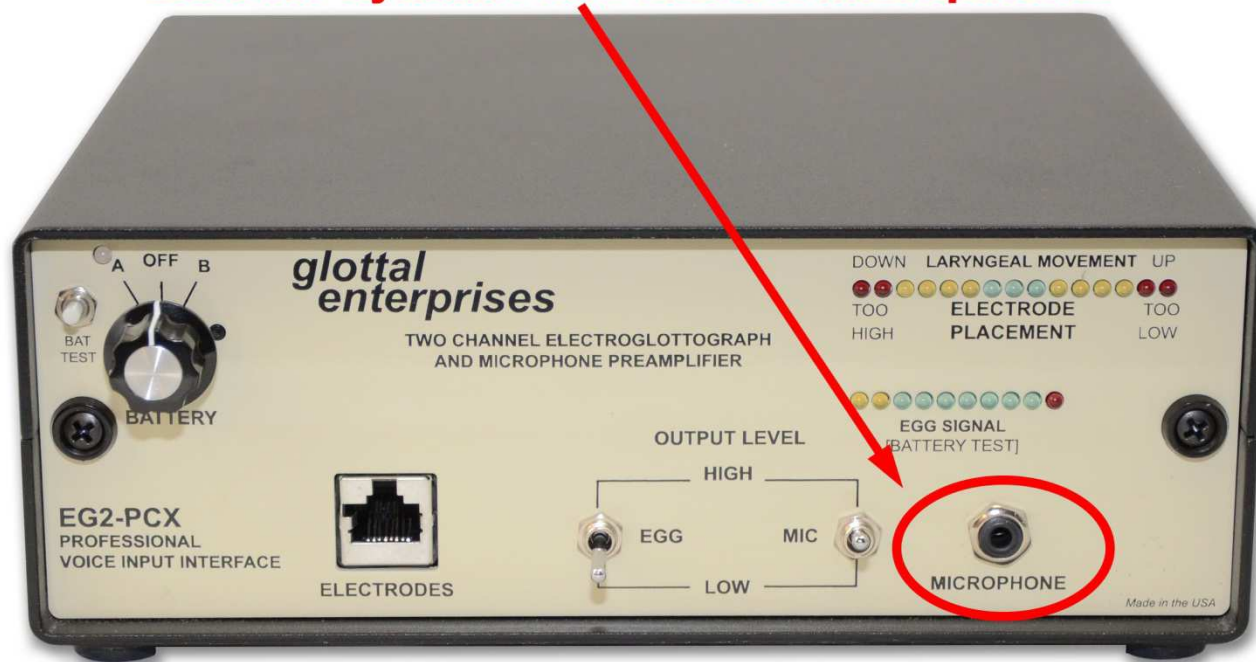


- An omni-directional electret microphone provides a high quality signal for critical applications such as inverse filtering.



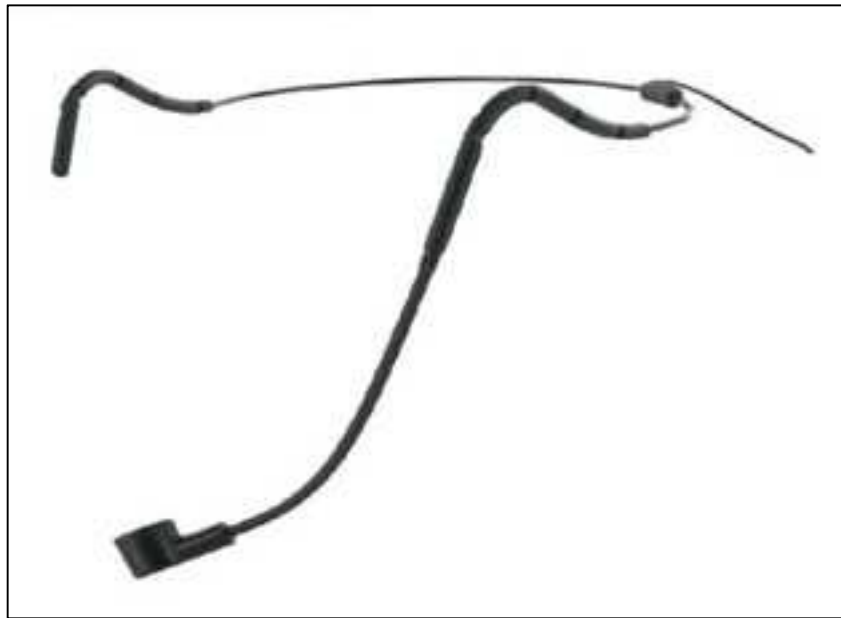
# 1/8" Microphone Jack Supporting Both Electret and Dynamic Microphones

**Jack for dynamic and electret microphones**



- This Mic jack allows you to record a signal from the electrodes AND a microphone simultaneously.
- Others do not have this option.

# Included Headset Electret Microphone



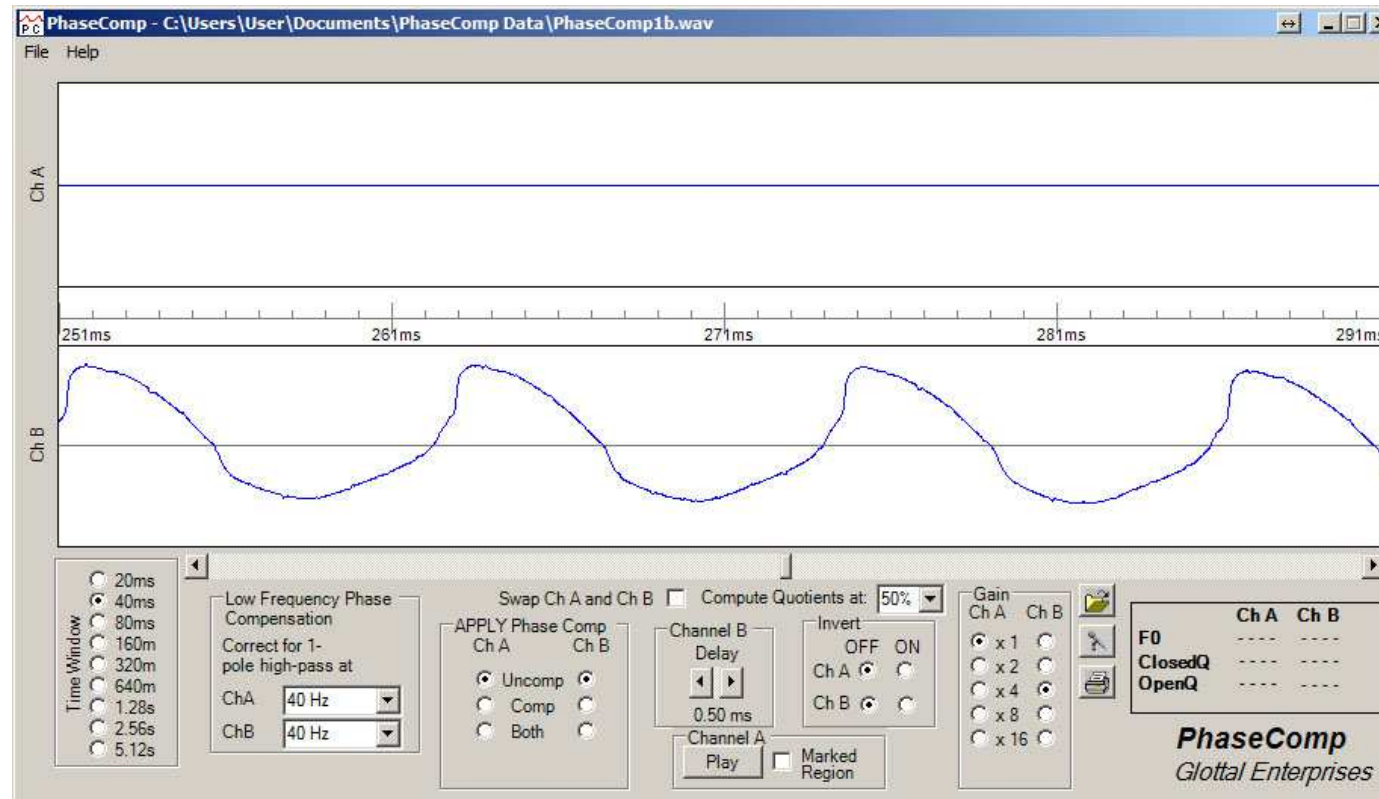
# Laryngeal Position Tracking Signal Output

Laryngeal position signal analog output



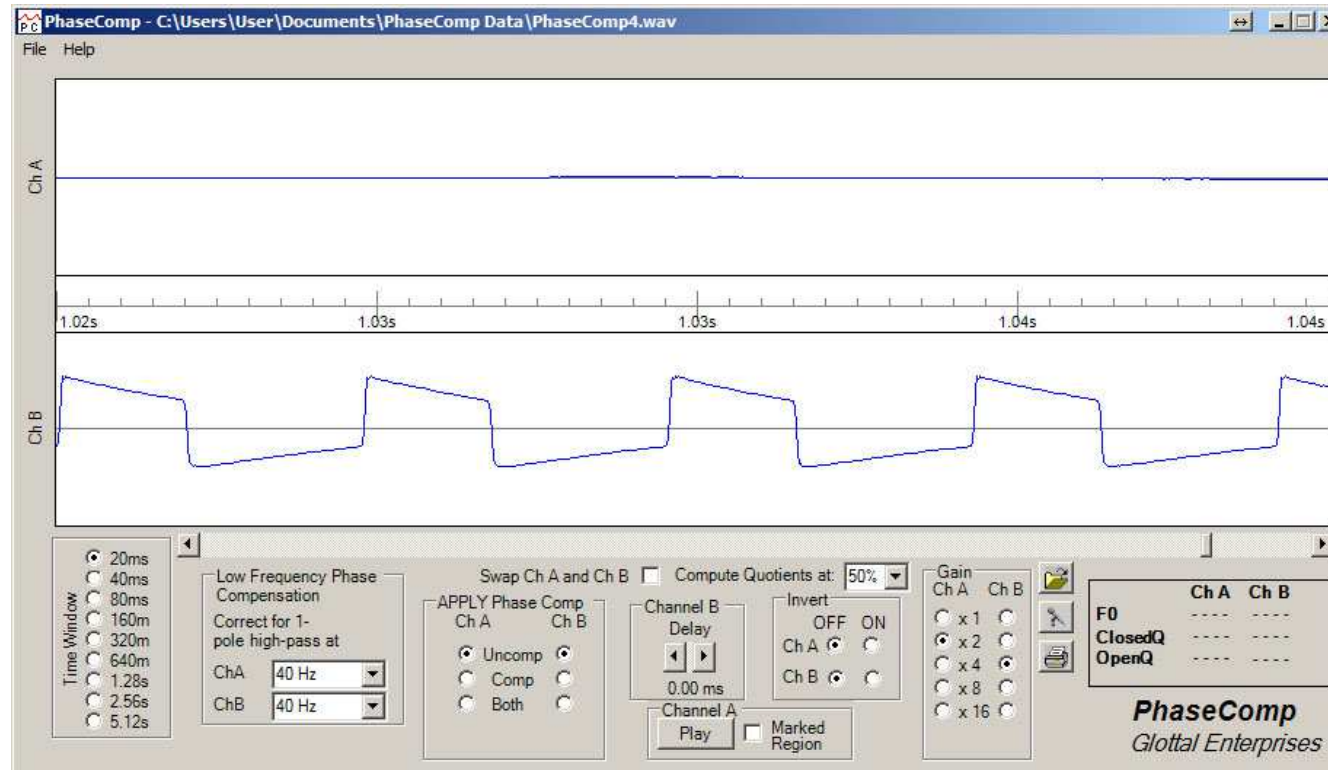
- It is a DC voltage that changes as your electrodes move up and down on the neck.
- Seeing this signal along with your EGG signal confirms that the electrodes were staying in the desired position while the data was being recorded.

# Verified 40dB signal-to-noise Ratio for Electroglottograph Signal



- Individually tested for a guaranteed signal to noise ratio of at least 40db.
- This limits the amount of noise providing a better signal quality.

# Included Larynx-Simulator (LS-1) for Verification and Calibration



- Allows the user to easily set the recording device sensitivity.
- The LS –1 plugs into the EGG instead of the Electrodes and gives the unit a consistent test signal to calibrate with.
- This significantly speeds up the set up process.

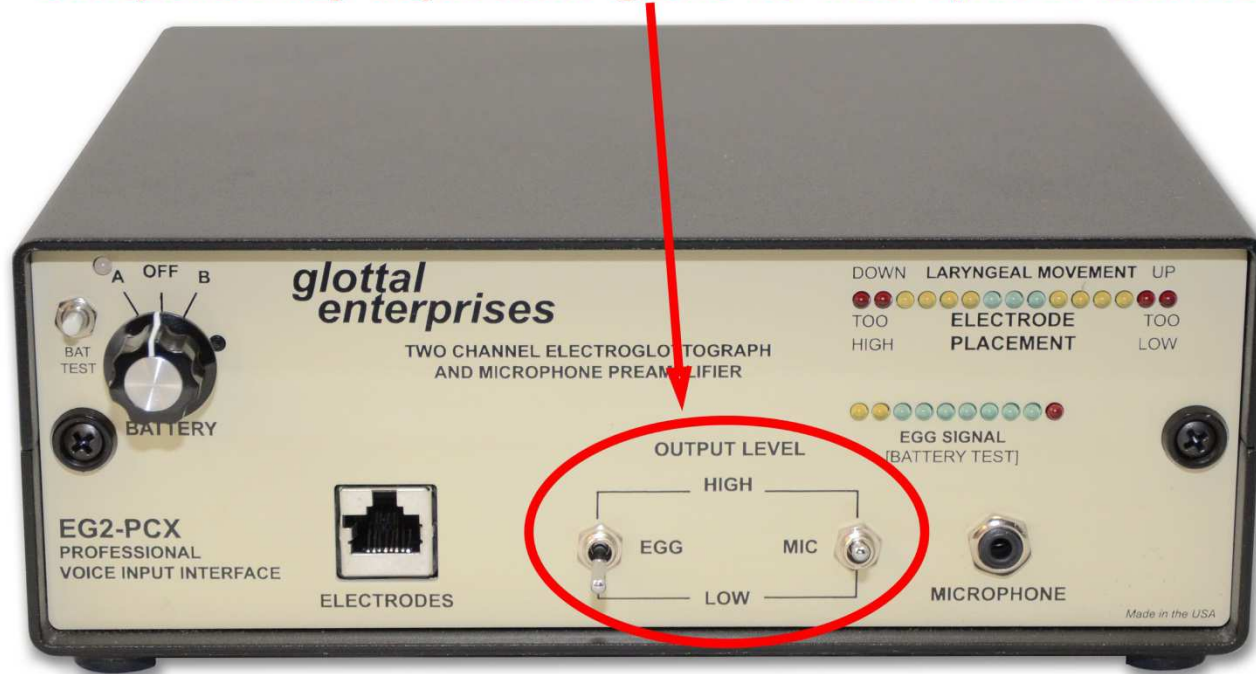
# LS-1B Larynx Simulator

**Plugs in instead of electrodes to  
generate a test signal**



# Independent, Adjustable Gain for Both Microphone and Electroglottograph Signal

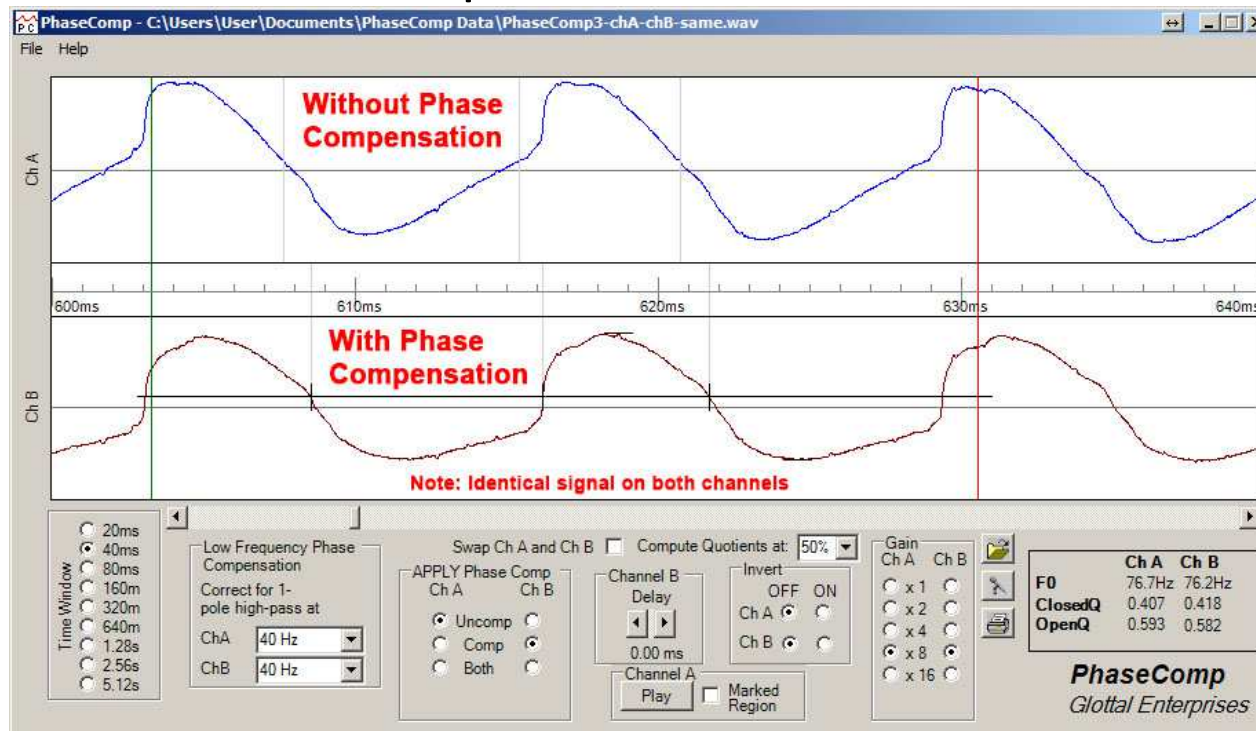
**Independently adjustable gains for microphone and EGG**



- Allows the user to adjust the signal strength for the EGG Electrode signal and the microphone signal independently.



# PhaseComp Software for Low-Frequency Phase Distortion Compensation Included



- Our PhaseComp software is included as part of the EGG Package.
- The high pass filtering that is needed to record the EGG signal introduces a waveform distortion. This software attenuates or reduces this distortion.
- **Makes the EGG signal a much more accurate representation of the vocal fold contact area.**
- PhaseComp also reduces the “low frequency noise” generated by the many different vibrations that are recorded along with the Vocal Fold vibration, (your skin and tongue for example)
- No other EGG offers this feature

# System Components



**A** - 2-Channel Electroglottograph w/ microphone preamplifier

**G** - 35mm dual channel electrodes

**C** - Laboratory quality Behringer ECM-8000 omnidirectional microphone

**F** - Glottal Enterprises M80 omnidirectional headset microphone

**B** - LS-1 Larynx Simulator with Manual

**E** - Power supply

**K** - XLR microphone cable

**D** - USB cord

**H** - Set of 2 velcro neck straps

**J** - 3.5mm male-to-male audio cable

**I** - Tube of Electrode gel

VV Signals EGG signal display software

EG2-PCX2 Manual

Glottal Enterprises PhaseComp software