

# Glottal Enterprises EG2-PCX2 Electroglottograph

## Comparison with the KayPentax EGG

### Primary product differences:

The EG2-PCX2 uses a patented 2-channel configuration with dual-channel electrodes. All Glottal Enterprises 2-channel EGGs have an electrode positioning indicator on front of the unit for locating, verifying and recording an indication of proper electrode position. (See Figure 1) Any 1-channel EGG cannot provide this advantage.

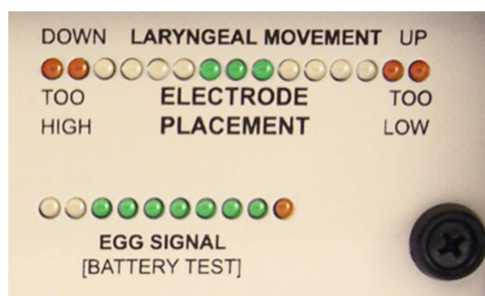


Figure 1

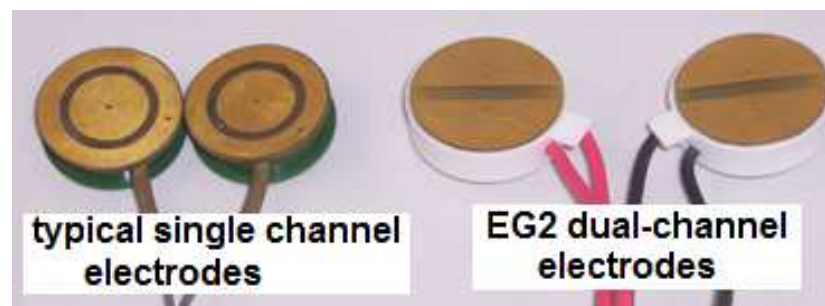


Figure 2

To position the electrodes of the KayPentax EGG, the electrodes are moved up and down by the user while observing the EGG signal on an oscilloscope or computer screen, in a search for a position that yields the greatest signal amplitude. If the larynx height changes, as in a change of voice pitch or quality, this search must be redone for optimum EGG performance. An EGG signal recorded previously can have no indication of whether the electrodes were positioned properly.

The roughly parallel electrode conducting surfaces in the EG2-PCX2 electrodes provides a quasi-uniform electric field through the neck that provides a signal less sensitive to electrode position than the circular concentric conducting surfaces on other EGG's. (See Figure 2)



<b>Features</b>	<b>KayPentax EGG</b>	<b>EG2-PCX2 by Glottal</b>
Electrode positioning indicator on front of unit – allowed by the patented 2-channel configuration	<i>No</i>	<b>YES</b>
Analog line-level output for use with any data acquisition system	<i>Yes</i>	<b>YES</b>
USB connectivity allowing use with any Windows desktop or laptop PC	<i>No</i>	<b>YES</b>
Dual 2,500 mAh batteries providing 24+ hours of continuous use	<i>No</i>	<b>YES</b>
Signal strength indicator on unit	<i>Yes</i>	<b>YES</b>
Low battery indicator light	<i>No</i>	<b>YES</b>
Included research-quality XLR microphone	<i>No</i>	<b>YES</b>
1/8" microphone jack supporting both electret and dynamic microphones	<i>No</i>	<b>YES</b>
Included headset electret microphone	<i>No</i>	<b>YES</b>
Laryngeal position tracking signal output (analog)		
Low-frequency cutoff adjustable to 20Hz or 10Hz	<i>No</i>	<b>YES</b>
Optional outputs for both EGG channels	<i>No</i>	<b>YES</b>
Calibrated 40dB signal-to-noise ratio for electroglottograph signal	<i>No</i>	<b>YES</b>
Included larynx-simulator (LS-1) for verification and calibration	<i>No</i>	<b>YES</b>
Independent, adjustable gain for both microphone and electroglottograph signal	<i>No</i>	<b>YES</b>
Optional F0 trigger output – provides trigger for synchronizing an oscilloscope or stroboscope	<i>No</i>	<b>YES</b>
Uniform electric field that provides a signal less sensitive to electrode position	<i>No</i>	<b>YES</b>
Software for Low Frequency Phase Distortion compensation included	<i>No</i>	<b>YES</b>

