

## Salient Characteristics

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### **KayPentax Visi-Pitch IV (Brand Name or Equal)**

#### **General**

The Visi-Pitch IV is a speech analyzer. It is a clinical instrument used by speech-language pathologists for assessment, treatment, and research purposes. It works by, first, using a software program to record the voice and provide visual and auditory feedback. This step can assess a variety of communication disorders, including voice, fluency, articulation, accent modification, motor speech disorders, and hearing-impaired speech. Secondly, it provides task modules (target vocalizations) that the patient works to match.

#### **Warranty Requirements**

Manufacturer must offer a 1 year warranty that product is free from defects in materials and workmanship. All defects will be replaced or repaired by the manufacturer at no cost to the buyer.

#### **Distinctive Features**

- a. Shall have visual and auditory feedback in real-time
- b. Shall have the ability to extract *objective* quantitative values from vocal functions.
- c. Shall have the ability to profile your voice (for example, before and after surgery), compare it to other data, and continually track your improvement after recovery.
- d. Shall includes high-fidelity audio playback
- e. Shall includes real-time spectrogram, a tool that gives a three-dimensional display (a spectrogram) of speech signals.
- f. Shall include real-time pitch (pitch displays fundamental frequency and relative intensity in real time).
- g. Shall include split screens so patients can see the target vocalization and compare with their own attempts.
- h. Shall include modules with tasks and parameters specific to disorders (e.g., dysphonia and motor speech problems).
- i. Shall include voice games