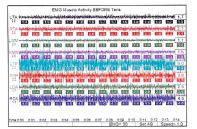
## **K7**COMPUTER DIAGNOSTICS

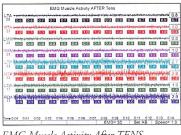
Less than 1 % of the dentists in the world have the technology and training to collect and analyze the data that Dr. Tamura can with his K7.



accommodate (If your bite is off, your jaws and muscles get sore).



EMG Muscle Activity Before TENS



EMG Muscle Activity After TENS

Cracked or broken teeth, migraines, headaches, neck aches, back-



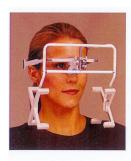
Surface Electromyography

pain, grinding of the teeth and popping & clicking of the jaw joints are just some of the symptoms of an improper relationship between your upper and lower jaws. Dr. Scott Tamura, whose dental practice is in Marina Del Rev California, is one of the few dentists in the world who can accurately measure and analyze jaw/joint dysfunction using the latest in dental computer diagnostics - the K7.

A full K7 work up by Dr. Tamura involves three diagnostic modalities. The first portion involves measuring and evaluating the muscles of your head and neck using EMG or Electro-

myography.

If the K7 measures elevated muscle activity when your jaw is at rest, your muscles will become weak and tired, will not function to their full potential and can spasm,



Jaw Tracking

which you feel as jaw, head, neck or back pain.

The second portion of a K7 work up uses Jaw Tracking to analyze the precise real time movements of the lower jaw relative to the upper jaw and skull.

The lightweight sensor array measures the movements of your lower jaw, and allows Dr. Tamura to view on the computer the dynamic path that your jaw travas it functions. els Pathologic jaw movements that are off of the trajectory of normal closure can be readily identified. Aberrant chewing, breathing and swallowing patterns can be easily diagnosed using the K7's powerful computer program.

The third diagnostic tool used in a full K7 bite analysis is ESG, also called electrosonography This helpful tool quickly and non-invasively records any jaw joint



Joint Sound/Vibration Evaluation

sounds or vibrations. Popping and clicking of the jaw joint is an indication that you have pathology in your joints that needs to be addressed before further damage is done.

Once your K7 analysis is completed, you may find that your teeth are not positioned correctly. This prevents the upper and lower jaws from alining with each other. The muscles of the head and neck then become fatigued and spasm, which you feel as headaches, shoulder-aches, neckaches or back-aches. What can be done about this?

Dr Tamura has a small battery operated T.E.N.S. unit (TransCutaneous Electronic Neural Stimulation), which can mildly stimulate your muscles into a relaxed state. Once your muscles are relaxed, we can measure the position your lower jaw goes to.

This is called your **Neuromuscular Posi**tion. Once this NM position is established, Dr. Tamura can discuss with you the different ways that we can stabilize your bite into this healthy, pain-free, ideal jaw/joint relationship.

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