

# BioEMG III™

## Making Sense Out of Muscle Function

**BioEMG** allows you to evaluate the effectiveness of your patient's craniofacial musculature. Achieving optimal muscle function gives you the confidence that treatment will fit the patient's physiology.

**BioEMG** or "electromyography" allows the clinician to evaluate the efficiency of the patient musculature in rest, chewing, and clenching.

Using EMG allows for identifying improper muscle function over a period of time. Proper muscle function ensures the long term stability of the dental work.

### Why EMG?

- Knowing what effect each dental procedure will have on patient muscle function.
- Understanding which dental interferences are of concern.
- Creating balance between muscle groups.
- Quantifying resting level.

**Patients' View** Compliance and case acceptance. Surface EMG is the worldwide standard method for recording muscle-specific activity in skeletal muscles. It has been proven reliable in numerous studies over many years and is a clinical procedure that can be performed in any dental office. This information is invaluable to the clinician who hopes to create beautiful dentistry that works with the patient's physiology for optimum results.

**EMG** is the only way to objectively measure the actions and reactions of the muscles of the head and neck. This provides the ability to test your treatments and bite positions before finalising the treatment position.

The BioEMG III electromyograph records electrical (bio-potential) activity from eight muscles simultaneously. Microvolt signals are amplified, virtually without noise, to 5000 times their original levels. Signals are displayed on a computer as original time domain waveforms and average levels that disclose contraction patterns and relative intensities.



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