

VitalStim<sup>®</sup> Plus  
Electrotherapy and sEMG  
Biofeedback System



Activate the Power to Swallow

## Enhance Therapy with sEMG Biofeedback Technology

Interactive Therapy allows patients to receive visual and audible feedback leading to enhanced patient engagement during swallowing exercises. Supplementing a standard therapy program with sEMG biofeedback facilitates functional swallowing recovery.<sup>1</sup>



### Swallow in Action

Project live treatment progress onto a computer or tablet screen. The Screen Mirroring technology allows clinicians to guide patients through personalized, targeted swallowing exercises. Preset or customized programs allow the provider to truly customize treatments while biofeedback and visuals create a patient-focused experience that encourages engagement and achievement of goals.

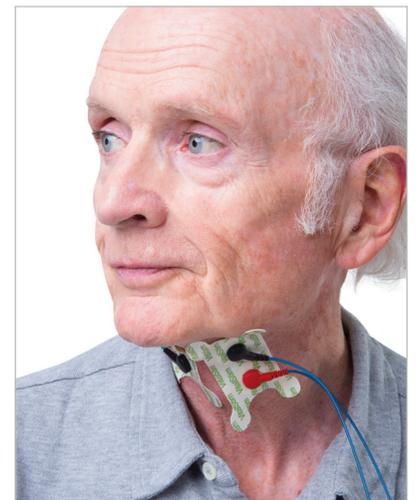
### Immediate Patient Progress Data

Quantify treatment progression with objective data that demonstrate outcomes for each therapy session.

### The Taste of Independence

VitalStim Plus neuromuscular electrical stimulation helps recruit and re-educate muscles in the process of swallowing. Under the guidance of a clinician, patients partner in an interactive therapy that aids muscle strengthening to rehabilitate swallowing.

sEMG biofeedback helps to increase effort and duration of swallowing attempts and to improve coordination. It also offers the potential for objective evaluation of swallowing function and patterns.<sup>2</sup>



# VitalStim® Plus

## Electrotherapy and sEMG Biofeedback System

### Patient Data

Treatment data on stimulation and sEMG can be stored, displayed or exported to a PC to track patient progress and generate reports.

### VitalStim Treatment

The VitalStim waveform is delivered in Co-Contraction Mode. Up to four separate channels deliver stimulation concurrently and pause at the same time.

### VMS Treatment

You are in control! Customize your treatment protocol by adjusting the parameters of your choice, such as Phase Duration, Frequency, and Work and Rest Time. VMS treatment offers even more flexibility by allowing you to sequence the stimulation in the various channels to more closely match the natural swallowing sequence.

### sEMG Treatment

Electrical signals in the muscle are measured and displayed on a screen and are amplified into sounds that the patient can hear. This feedback increases patient effort and participation, and provides the data and documentation required to measure patient outcomes and quantify progress.

### sEMG + Triggered Stim

The patient initiates the swallowing exercise with the assistance of sEMG biofeedback. When the set threshold is reached, VitalStim Plus will switch to stimulation mode to increase the effort and exercise load.



### Bluetooth Technology

Screen mirroring technology projects your live treatment onto a computer or tablet screen. This allows you to guide therapeutic exercise activities and increase patient engagement.

### Education Videos

A complete education tool at your finger tips. VitalStim Plus includes videos that help demonstrate key therapeutic exercises, such as the Masako Exercise, the Mendelsohn Maneuver, the Supraglottic Maneuver, and various Electrode Placements Options.

### Anatomical Library

VitalStim Plus includes a Dysphagia image library of Anatomy, Pathology and Therapeutic Treatment options to assist in educating your patient.



The VitalStim® Plus Electrotherapy and sEMG Biofeedback System  
Activate the Power to Swallow



**ORDERING INFORMATION**

Part Number	Description
<b>GENERAL ACCESSORIES</b>	
5923-3	Vitalstim Plus Electrotherapy System
25-8080	Vitalstim Plus Snap Lead Wires
<b>ACCESSORIES INCLUDED IN STANDARD KIT</b>	
13-8083	Vitalstim Plus Reference Emg Lead Wire
13-8085	Vitalstim Plus Hand Switch
13-8088	Vitalstim Plus Stand
13-8089	Vitalstim Plus Stylus
13-8090	Vitalstim Plus Rubber Sleeve
<b>OPTIONAL ACCESSORIES</b>	
13-8082	Vitalstim Plus Reference Emg Electrode
59000	Vitalstim Adult Electrodes, 12 Pack
59042	Vitalstim Adult Electrodes, 30 Pack
59043	Vitalstim Adult Electrodes, 50 Pack
59044	Vitalstim Adult Electrodes, 100 Pack
13-8075	VitalStim Plus Battery Door

Contact your representative to learn more about how the VitalStim® Plus Electrotherapy and sEMG Biofeedback System can deliver customer-specific solutions to help you deliver quality care for your patients.

1. Crary MA, Carnaby Mann GD, Groher ME, Helseth E. Functional benefits of dysphagia therapy using adjunctive sEMG biofeedback. *Dysphagia*.2004;19(3):160-4.  
2. Crary MA. A direct intervention program for chronic neurogenic dysphagia secondary to brainstem stroke. *Dysphagia*.1995;10(1):6-18.

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