

# MyOnyx, MyOnyx App & Rehab Solution

## Product Features/Information for Distributors

### Product overview



The MyOnyx device is a portable, rechargeable device for **surface EMG biofeedback** and **electrostimulation** which offers three functionality modes: standalone, remote control with an Android device and PC controlled with Windows software.

- **Standalone:** In this mode, the device allows you to rapidly select and run electrostimulation (ESTIM) protocols directly from its display screen (no EMG).
- **Remote control:** In this mode, using the **MyOnyx Android app**, you can control the device via Bluetooth and run ESTIM sessions from the device. You can also use the app to do biofeedback with surface electromyography (SEMG) and run EMG triggered ESTIM sessions.
- **PC Control:** In this mode, the device is connected to a Windows computer, via Bluetooth. You can use **BioGraph Infiniti** with the **MyOnyx Rehab Suite** to run SEMG assessments and run entertaining and engaging biofeedback sessions.

### Purchase options

The MyOnyx is available in two versions, **Basic (T9000)** and **Extended (T9030)**, which offer different sets of features and options.

#### Basic (T9000)

- Standalone mode
- Remote Control mode

**Extended (T9030)**

- Standalone mode
- Remote Control mode
- PC Control mode

**Hardware**

The MyOnyx device is a sleek, rechargeable instrument with numerous features which make it unique in the EMG muscle rehabilitation market.

**Features**

- Wireless connectivity to Android tablets and Windows PCs via Bluetooth
- 8 GB of internal memory to save client sessions and custom protocols
- 4 inputs with multiple combinations of SEMG and ESTIM channels
  - Inputs A & B can be set for EMG or STIM
  - Inputs C & D are for STIM only
- Separate patient drive lead for shared ground
- Comes with preset ESTIM programs
- Dual Exercise mode allows you to run two STIM programs at the same time
- Allows users to edit/customize ESTIM programs
- Ability to run STIM sessions without selecting a client (tap and go)
- Ability to daisy-chain 4 devices for up-to 16 channels of ESTIM
- Inside the device, raw EMG is sampled 2048 times/second
  - In the Android app, EMG is displayed in RMS
  - The MyOnyx Rehab Solution can display EMG raw or RMS

**Accessories****Basic**

The Basic MyOnyx package includes

- 1 MyOnyx device
- 4 EMG/STIM 2 lead cables with DIN connectors
- 1 patient drive lead
- Medical grade power supply

*Note: Existing EMG cables are not compatible with the MyOnyx device because it uses different connectors from other devices.*

- 4 DIN to snap adapters



- Electrode samples (3 Unigel & 1 Axelgaard STIM electrode)



- MyOnyx hardware manual
- MyOnyx App (downloaded from Google Play)

### Advanced

- All the components of the Basic package
- BioGraph Infiniti & Developer Tools
- MyOnyx Rehab Solution

## Functionality modes

### Standalone



In Standalone mode, the MyOnyx essentially functions as an ESTIM device. From the device's user interface, you can select and run sessions from a list of **preset ESTIM session types** with up-to 4 channels. On the MyOnyx app, you can also modify a preset session to create a new ESTIM session configuration.

A **Dual Exercise mode** allows you to run two ESTIM sessions at the same time (ex. For upper and lower back).

ESTIM protocols include a variety of **NMES** (neuromuscular electrical stimulation) sessions. NMES is a therapy that generates muscle contractions and engages muscle activation.

Each session type is defined by its duration, number of Work/Rest steps, ramp up or down time and pulse rate and width.

*Note: ESTIM sessions are not recorded.*

## Remote control

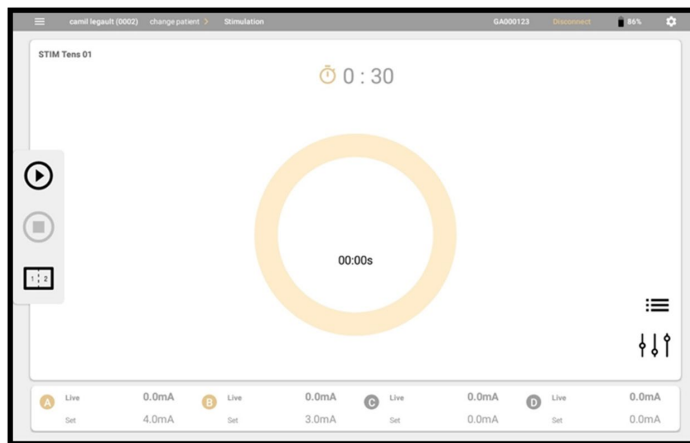


In this mode, additional capabilities are accessed via the Android app. From the app, you can connect to the MyOnyx device to:

- Remotely select, configure and run **ESTIM** sessions
- Use the app to run EMG **biofeedback** sessions
- Use the app to run **EMG triggered STIM** sessions

### ESTIM sessions

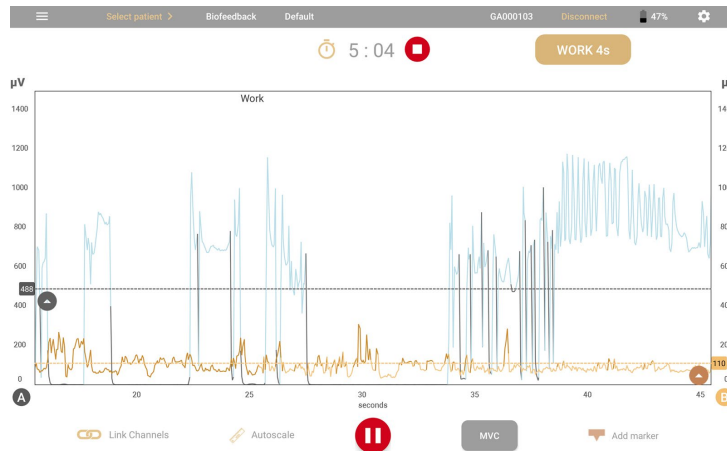
The app allows you to select a preset ESTIM program and remote control the device to Start Stop or Pause the session. From the app, you can also adjust session parameters and save customized session programs.



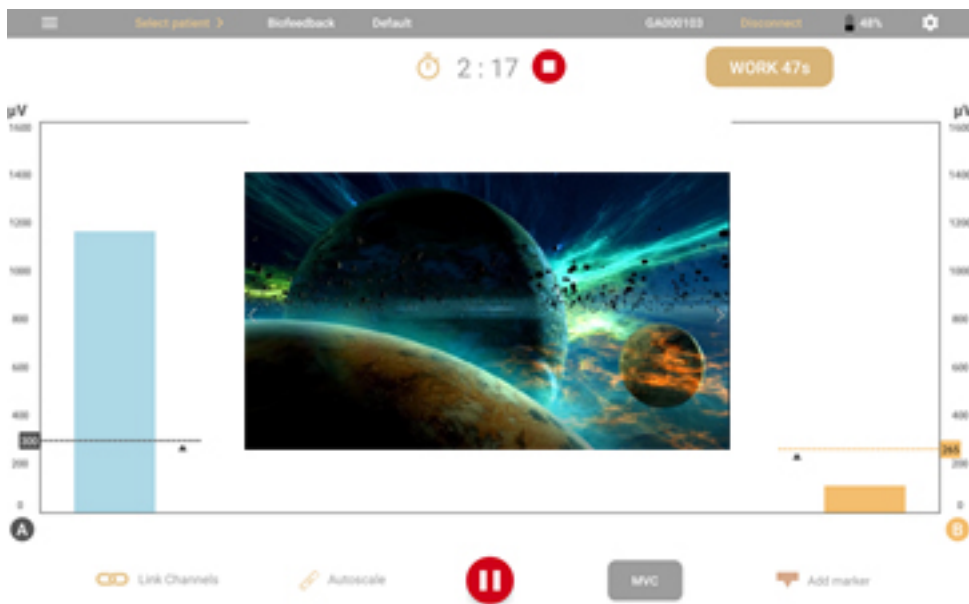
### Biofeedback sessions

When running biofeedback sessions, you can select one of four display types: **line or bar graphs**, **animation** or **pattern** (similar to templates in BioGraph). EMG biofeedback sessions can be defined for 1 or 2 channels. EMG biofeedback sessions can be saved to a Client database.

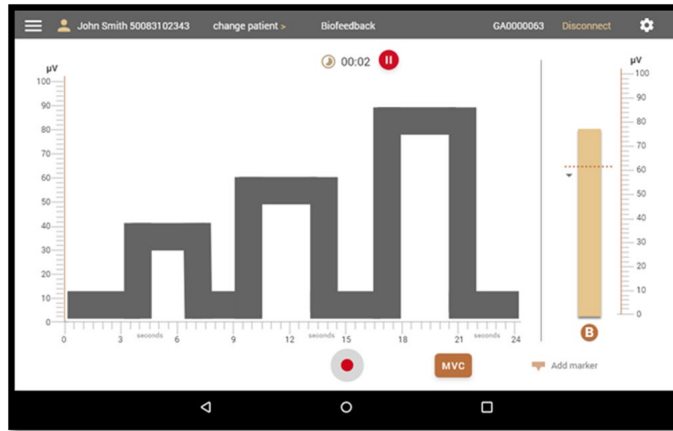
Note: The app shows EMG RMS only.



Line graphs



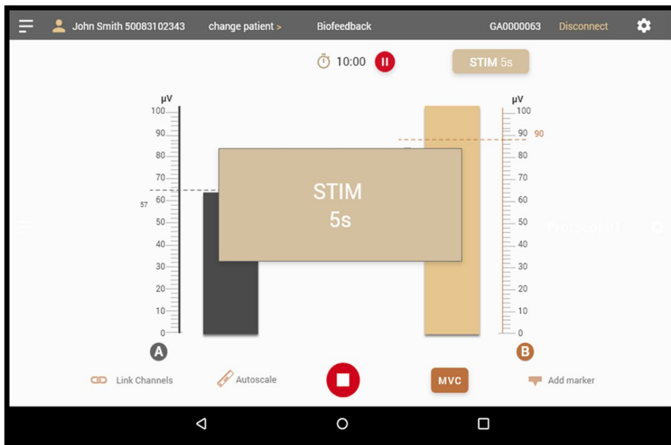
Bar graph and animation



**Pattern**

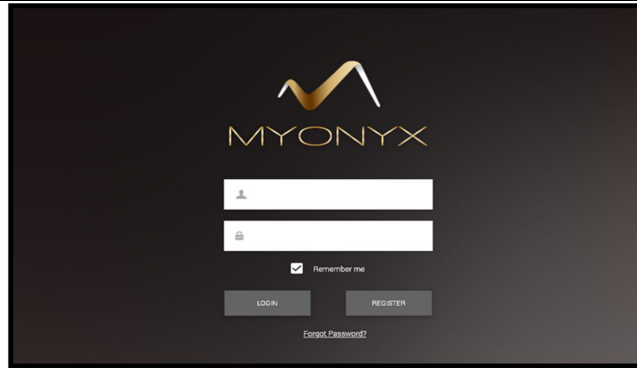
### EMG triggered STIM sessions

EMG Triggered sessions combine both EMG biofeedback and ESTIM. The clinician specifies a threshold and asks the client to contract a muscle when the contraction reaches the threshold, a period of NMES is triggered.



### Client database

The MyOnyx app includes a **Client Database**. Logging into the app requires a **User Name** and **Password**. To protect personal health information, once a user is logged in, he can only access a list of his own clients. Each client file can include multiple sessions.



← Patient list

Enter patient name or ID

First name	Last name	Patient ID
Jonathon	Adams	339945434334
Linda	Adams	295689560565
Steve	Adams	456854954555
Gerald	Allen	489282205927
Sam	Appleton	899470299911
Craig	Brady	859204850243
Dave	Brooks	82484752777
Christine	Brooks	674893829135
Mary	Christiansen	894891838844

Patient Profile

First Name: **andrew** Last Name: **Dasys** Patient ID: **0001**

CANCEL SAVE

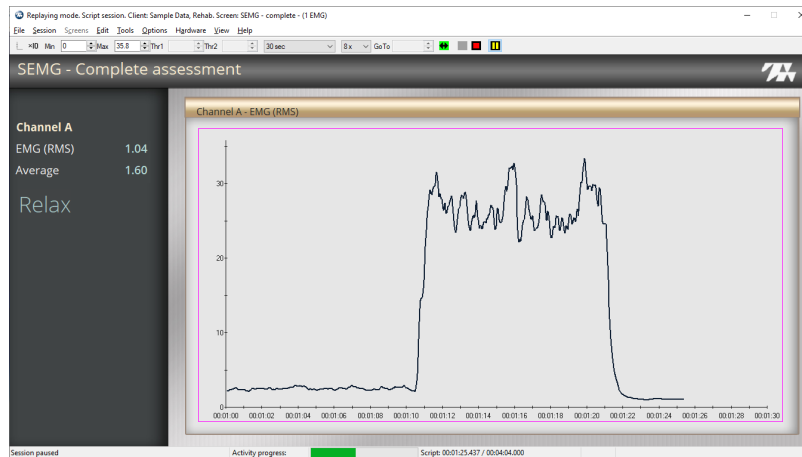
File	Type	Duration	Date
EMG1	EMG	1:52	2019-05-03 16:10:15

### MyOnyx Rehab Solution



The MyOnyx Rehab Solution is a BioGraph suite that includes a number of simple tools for muscle function assessment and EMG biofeedback training.

## Assessment protocols



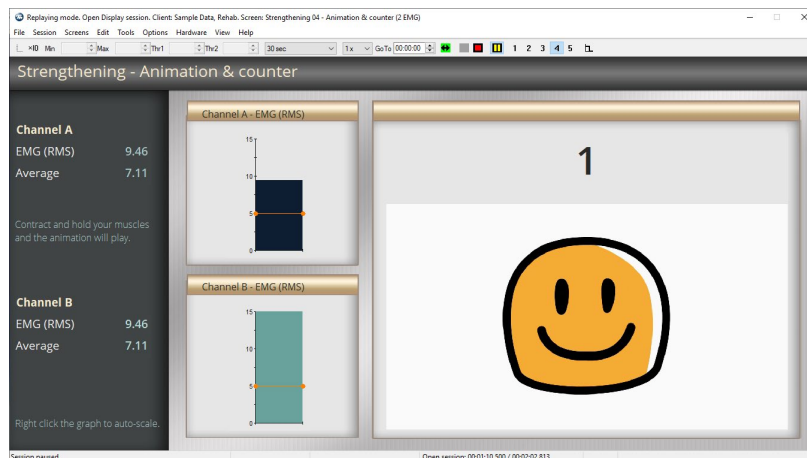
The assessment tools include a complete assessment (5 activities) for **2 channels of EMG** and for **1 channel of EMG**. The 5 activity assessments take a bit over 4 minutes to run and include:

- Rest (pre-baseline)
- Maximal contraction
- Fast flicks
- Endurance
- Rest (post-baseline)

Open session assessments can be done, where the clinician can monitor EMG activity while coaching the client to do specific movements.

- Open assessment for 2 EMG
- Open assessment for 1 EMG and median frequency (to assess fatigue)

## Training protocols



The suite includes a complete selection of biofeedback training protocols for 1 channel or 2 channels of EMG as well as 1 channel and 1 channel of EMG.



**Training: EMG**

- Activating Ch1 while relaxing Ch 2
- Control
- Control with extra channel
- Equilibrium
- Relaxation 1 channel
- Relaxation 2 channels
- Strengthening 1 channel
- Strengthening 2 channels

