

# MYONYX



# FIRMWARE UPDATE INSTRUCTIONS

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Product Name	MyOnyx System
Device Name	MyOnyx
REF	SA9020

Manual Number/ Revision Myonyx Firmware Update Instructions SA9037 (August 2022) © Thought Technology Ltd. 2022

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## Introduction

This quick manual is to help the user to upgrade their SA9000 device to SA9020 with version 1.26.0.0 of firmware. This will enable TENS (Transcutaneous electrical nerve stimulation) and MET (Micro-current Electrostimulation Therapy) functions of your MyOnyx device.

## Preparation

Before you start updating, please make sure these items are ready:

- MyOnyx device and its power adapter (charger).
- The USB key with firmware updater (installer) in it.
- A Windows 10 or 11 PC with Bluetooth function.
- Your Android device is powered on and connected to the internet

#### How to Update your Myonyx Device

#### Bluetooth pairing your device to your pc

To update the firmware, MyOnyx device should be paired to a Windows PC first. Windows 10 or 11 PC is recommended. (There is slight difference between Windows 10 and 11 for Bluetooth pairing)

# Please skip this section and go to <u>Running the Update Application</u> on page 9 if your MyOnyx is already connected with PC over Bluetooth.

Step 1: Put your device in pairing mode

• In the home screen, select **SETTING** and press **OK** 



• Step 2: Select **BLUETOOTH PARING** and Press **OK** 



• The Bluetooth screen and **Bluetooth Name** will be shown. Now the device is waiting for the PC to connect.



Step 2: Pairing your device with your Windows PC

• In the Windows 10 PC, 'Right click' on the **Start** button (lower left side) and click on the **Settings** item, then click on the **Devices** icon in the settings window, the **Bluetooth & other Devices** window will be shown, select **Add Bluetooth or other Devices**.

	Settings		- 0	×		
		Windows Settings				
	I.	find a setting	P			
	System Digitaly sound, notifications, power	Devices Busiceth, protect, mouve	Phone Lekyour Android, Phone			
	Network & Internet	Exciprent lock series,	Apps Loverstil, defaults, sprional Lovers			
Apps and Festures Mobility Centre Power Options	Accounts Vior accounts anal oper, work, other people	Time & Language	Saming Mos Garne Ber, Ling wes, Garne Mode			
Event Viewer System	Car Ease of Access	Search	← Settings	Bluetooth & other devices	-	
Network Nanogen Network Connections Dick Management	and a second		Find a setting	Add Bluetooth or other device		
Computer Management Command Prompt	- Violate & Security Violatus Updata recovery backup		Devices	Bluetooth		
Command Percept (Admin) Tech Manager			Printers & scancers	Now discoverable as "LAPTOP-MCIRCE"		
Settings File Explorements			O Mouse	Mouse, keyboard & pen		
			Touchpad	Dell Universal Receiver		
Shut down or sign out			ے۔ A Pen & Windows Ink	Mi Smart Band S Paleed	295	
(			(i) AutoPlay	Audio		
			D US8	Bose TV Speaker Paired		
			-	Pained Pained	20%	
				Other devices		
				Cable Matters USB-C Video Cable Device can perform faster when connected to USB 3.0		
				Generic PnP Monitor		
				<ul> <li>Intativiti nove plan</li> </ul>		

• In the Windows 11 PC, 'Right Click' on the **Start** button, choosing **Settings**, then click on **Bluetooth & Devices** in the settings window. Select **Add Device** from the top of your screen.

← Settings		- 0
0	Bluetooth & devices	
Find a setting     P       System     Bluetooth & devices       Network & internet     Personalization	+ Add device	
Apps	View more devices	
Accounts     Time & language	Bluetooth Discoverable as "DESKTOP-Q4MUT3"	On 🔵
Gaming     Accessibility	Correct Mouse, keyboard, pen, audio, displays and docks, other devices	Add device >
Privacy & security	Printers & scanners     Preferences, toubleshoot	>
Windows Update	Your Phone Instantly access your Android device's photos, texts, and more	Open Your Phone >
	Cameras Connected camera, default image settings	>
	0 Mouse Buttons, mouse pointer speed, scrolling	>

• In the **Add a device** window click on **Bluetooth**.

Settings		- D	*
A Home	Bluetooth & other devices		
Find a setting	Add Bluetooth or other device		10.00
Devices			
Bluetooth & other devices	Bluetooth		Add a device Choose the kind of device that you want to add.
Printers & scanners	Now discoverable as "LAPTOP-MCIRCE"		Bluetooth     Mice, knyboards, pens or sudio and other kinds of Bluetooth devices
① Mouse	Mouse, keyboard & pen		Unreless display or dock
Touchpad	Dell Universal Receiver		Wireless monitors, TVs or PCs that use Miracast or wireless docks
Typing Pen & Windows Ink	Mi Smart Band 5 Paired	<b>D</b> 29%	+ Everything else Xbox controllers with Wineless Adaptor, DUNA and more
(i) AutoPlay	Audio		
Ö USB	Bose TV Speaker Paired		
	Hesh ANC Paired	20%	
	Other devices		
	Cable Matters USB-C Video Cable Device can perform faster when connected 3.0	to USB	Cancel
	Generic Pn <sup>p</sup> Monitor		
	HUAWEI nova plus		

• After several seconds of searching, the MyOnyx device with its Serials Number will be shown.



• Select your MyOnyx device in the list, PINs are displayed on both the MyOnyx device screen and the PC. Make sure the two PINs are the same. Click on **Connect** on the PC and Press **OK** on the device.



• Your device is now paired.



• You can also see the device in **Other devices** list on Windows 10.

∂ Home Find a setting Devices	Bluetooth & other devices		<ul> <li>← settings</li> <li><b>Q</b></li> </ul>	Bluetooth & devices > Devices	
Bluetooth & other devices Printers & scanners	Mouse, keyboard & pen		Find a setting D	Other devices	I
0 Mouse	Mi Smart Band 5 Paired	29%	Bluetooth & devices     Network & internet	Expansion HDD     Connected to USB 3.0	I
Typing	Audio Paired Bose TV Speaker Paired		Apps Accounts		i
Pen & Windows Ink     AutoPlay	Paired Hesh ANC	D 20%	<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	NoMachine USB Host Adapter	1
USB	Other devices Cable Matters USB-C Video Cable Device can perform faster when connected to USB 20.0		Accessibility     Privacy & security	RAVANIC6 Not connected	I
	Generic PnP Monitor		Windows Update	■ <sup>T24-10</sup>	i
	HUWVEI nova plus     Paired     MyOnyx_GA000001     Paired     MyOnyx_GA000001     MyOnyx_GA00000000     MyOnyx_GA000000000     MyOnyx_GA0000000     MyOnyx_GA000				

Figure 1: Your device will be on the "Other Devices" list (Windows 10 on the left, and Windows 11 on the right)

#### Running the Update application

Please check battery level of your MyOnyx device:

- The battery level should be higher than 50%
- We highly recommend you connect power adapter (charger) to MyOnyx and keep it connected until the end of the update process.
- Please do not turn off the device during update. If for some reason the device is turned off it is still safe to turn it on and retry the update process.

Now your MyOnyx device is ready for update.

Step 1: Open the Myonyx Update Installer on your PC

• Plug the USB key to your PC, go to the updater folder, double click on the executable file: *Myonyx-Updater-v1.26.0.0-PatchDeviceInfo.exe* 

(Please keep AMI.dll in the same folder of the .exe file)



#### Step 2: Choose your Myonyx Device

• The updater application will list all paired MyOnyx devices, select your device which can be identified by the serial number

MyOnyx Devices List MyOnyx_GA001187	Product   Serial Number   Current firmware version
	Firmware version to update 1.26.0.0
Refresh	

• After several seconds, the application will show the device and current firmware information.

MyOnyx Updater DIP Version		-		×
MyOnyx Devices List MyOnyx_GA001197 Refresh	Produ t Serial Number Gurcent firmware version [ Firmware version to update Update	SA9000 GA00118 1.25.7. 1.26.0.	0	
		-	EXIL	

#### Step 3: Update your firmware

• Click on **Update**. You will get a popup with information about going back to the home screen on the MyOnyx device and keeping the power adapter (charger) connected. Click **OK** on the message and the update will start. Your device will restart multiple times during the upgrade.

	- [	×	
Product Serial Number	SA9000 GA000001 1.25.7.0		
Firmware version to update	1.26.0.0		Attention Before updating, Please close all sessions and return to the bome screen on your Memory device
			Keep charger connected until the device has been fully updated.

If there is any error happen during updating, the updating process will be stopped and an error message will be shown. In this case, please close the updater application, then reopen it and try again.

Firmware version to update	1.26.0.0
A communication error occurre code: 010: -10022	ed. Please try again. Error

• You will see a message confirmation in green that the device successfully updated.



Step 4: Check your Myonyx device About Device Screen

 Check the device information in the ABOUT DEVICE of MyOnyx. You should see the product number is SA9020 and the firmware version is 1.26.0.0.



Step 5: Apply the new device label

• Be sure to apply the new label that you received in your upgrade package to the back of your Myonyx device. You can place it over the old label.





#### Step 6: Take a picture & send it to us

• Please take a photo of the new label on the device, and of your about screen, and email both pictures to us at <a href="mailto:support@thoughttechnology.com">support@thoughttechnology.com</a>.

# How to Update your Myonyx Mobile App

#### Automatic Update

Updating your Myonyx Mobile App will install new functionalities such as MET and TENS electrostimulation programs. Updates are usually done automatically, and requires no steps for you to take.

#### Manual Update

If you have turned off automatic updates, you will have to manually update the app.

Step 1: Open the Google Play Store

on your device

Step 2: Click on your icon in the top righthand corner

Step 3: Choose Manage Apps and device

Step 4: Select the Manage tab along the top

Step 5: Select Updates Available

Step 6: Scroll until you see Myonyx Mobile App, and press on the icon

Step 7: Press the Update button

Play Store Link For a manual update, you can also:

- Follow this <u>link</u>
- Scan the QR code
- Search for Myonyx in the Google Play Store



#### Verifying the App Update

To be sure you are on the correct version of the Myonyx Mobile App, please visit the about screen:

Step 1: Open the Myonyx Mobile App



Step 2: Click the Settings Icon in the top right corner of your screen

Step 3: Click About

If you are on the correct version, the REF number will be SA9030

REF SA9030

# Help & Support

If you are having any trouble updating either the app or your device, our support team is happy to help you. Please contact them at support@thoughttechnology.com, or at 1-800-361-3651 extension 167.

# Appendix A: TENS and MET Program Configuration & Specifications

The following section is an excerpt taken from the most recent update to the Myonyx Hardware User Manual, specifically addressing TENS and MET:

#### **Transcutaneous Electrical Nerve Stimulation (TENS) Programs**

TENS is designed to stimulate the nervous system with little or no motor contraction.

There are two TENS programs: Chronic Pain and Acute Pain. The delivery type for both is continuous. This means that ES is delivered throughout the session with no rest phase. For the chronic pain program, ES is delivered in a burst pattern at two bursts per second. The pattern for the acute pain program is called Frequency Modulated. The pulse rate and width increase and decrease following a predefined pattern. The parameters for these programs are listed in the following table: **Program** 

	Pattern	Total Time (sec)	Cycles	STIM time (sec)	Rest time (sec)	Ramp- up (sec)	Ramp- down (sec)	Pulse Rate (Hz)	Pulse Width (µs)
Acute Pain	Modulated	1800	1	1800	0	0	0	100	150
Chronic Pain	Burst	1200	1	1200	0	0	0	100	200

# Modifying a TENS Program

You can make changes to the following fields, by overwriting the values in the text fields or moving the sliders left or right:

O TENS	NMES	O ETS	O MET
Frequency (Hz)	5	40	80
Pulse Width (µs)	150	250	400
Delivery	● Sync ◯ Alt		
Work time	20 s	Rest time	s
Ramp up	100 ms	Ramp down	<u>100</u> ms
Total Repetitions	20	Session Time	13 m 20 s
			SAVE AS CANCEL

Parameter	Value range	Default value
Frequency (Pulse	[2 – 150 Hz]	80 Hz
Rate)		
Pulse Width	[50 – 250 µs]	150 µs
Delivery	Continuous (Fixed)	Continuous
Pattern	Burst	Burst
	Continuous	
	Frequency Modulation	
	Low Freq. + Amp.	
	Modulation	
	High Freq. + Amp.	
	Modulation	
Ramp Up	[0 – 10000 ms]	0 ms
Ramp Down	[0 – 10000 ms]	0 ms
Session Time	[0, 7200s]	300s

#### **Microcurrent Electrostimulation Therapy (MET) Program**

MET, like TENS, is used for treating some forms of pain. The main difference is that it is applied at much lower intensities. It is measured in microamps, rather than milliamps. There is one MET program: Microcurrent. The delivery type is continuous. It is delivered at the same amplitude throughout the program. The pattern is also continuous. There is no variation in ES duration during the work phase.

The parameters for this program are listed in the following table:

Program	Total Time (sec)	Reps	STIM time (sec)	Rest time (sec)	Ramp-up (sec)	Ramp- down (sec)	Pulse Rate (Hz)	Pulse Width (μs)
Microcurrent	900	1	900	0	0	0	0.5	500,000

# Modifying the MET Program

You can make changes to the following fields, by overwriting the values in the text fields or moving the sliders left or right:

<b>O</b> TENS	O NMES	O ETS	MET	
Frequency (Hz)	0 •	0	0	
Pulse Width (µV)	) 500 •	500	500	
Delivery	Continuous			
Modulation	Burst	Session Time	<u>5</u> m	0
			SAVE AS	CANCEL
			SAVE AS	CANCEL

Parameter	Value range	Default value
Session time	1-7200 s	300 s
Frequency (Pulse	0.5 Hz (Fixed)	0.5 Hz
Rate)		
Pulse Width	500 ms (Fixed)	500 ms
Delivery	Continuous (Fixed)	Continuous
Pattern	Continuous (Fixed)	Continuous
Ramp Up	0 (Fixed)	0 ms
Ramp Down	0 (Fixed)	0 ms
Session time	1-7200 s	300 s