

NUSHU

Quick Guide (EN)

Version 1: 2026-05-13

See the NUSHU User Manual for more detailed information:



<https://magnes.ch/documents/nushu-fda/>

1 Support



For the best experience, carefully read and understand this user manual prior to using NUSHU.

For any inquiries, please reach out to Magnes.

Email: support@magnes.ch

For Europe and rest of the world

Magnes AG, Hardturmstrasse 253, 8005 Zurich, Switzerland.

For USA

Magnes Inc, 2261 Market Street STE 5508, San Francisco, CA 94114, USA.

2 Indications for Use

NUSHU smart shoes, consisting of 1 pair of connected footwear and a mobile application, are intended to measure, record, and analyze walking parameters in patients with gait impairments. The shoes may be used either at home or in the clinic. NUSHU can also assist gait by providing patients with haptic notifications via tactile vibrations and exercise. NUSHU smart shoes are compatible with the NUSHU web application as part of the connected NUSHU medical device system.

The NUSHU web application¹ is a software medical device intended for use by healthcare professionals (HCP) only, for assisting in the review of gait data to support the management of patients with gait impairments. Gait data is not intended to provide diagnostic conclusions independent of clinical judgment. The NUSHU web application is compatible with NUSHU smart shoes as part of the connected NUSHU medical device system.



NUSHU may NOT perform as expected if used outside of its intended use.



NUSHU is NOT intended to be used for making diagnostic or therapeutic decisions.



Please stop using the shoes and talk to your healthcare professional (HCP), if using them causes any discomfort.

¹See the NUSHU Web Application user manual for more information.

3 Intended User Profiles and Use Environment

Intended Users

The NUSHU smart shoes are intended for individuals who have problems or symptoms related to their gait can collect gait activities or use the tactile vibrations at home on their own or in a clinic with the guidance of an HCP. The use of the NUSHU mobile app requires adult supervision.

The NUSHU web application is intended for HCPs, including doctors and clinicians, nurses, physical therapists, as well as researchers can use the system to view analysis and progress of gait measurements and/or therapy in patients wearing the NUSHU footwear.

Intended Use Environment

The NUSHU smart shoes may be used in the clinic and home environments. The usage can be indoors and outdoors.

The NUSHU web application is intended for clinic use only.



NUSHU is NOT designed for high-impact activities like running or jogging.



NUSHU is NOT designed for water sports. Avoid using NUSHU in heavy rain or snow.

Indicated Medical Conditions

Individuals with gait impairments, such as Parkinson's disease, Alzheimer's disease, multiple sclerosis, dementia, stroke, brain or spine injury, sarcopenia, cachexia, muscular atrophy, brain or walking (gait) disorders, pediatric or orthopedic patient populations

Contraindications: None

4 Warnings / Important Notes



Users shall report any serious incident to Magnes AG and the authority having jurisdiction in their locale.



The product is NOT intended to come into contact with bare skin or wounds. Users must wear socks when using NUSHU.



Make sure NUSHU are charged.



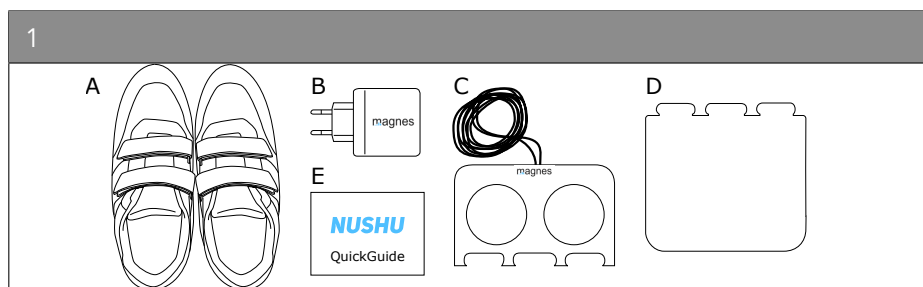
Do not use NUSHU while they are charging.

-  NUSHU shall not be exposed to loads exceeding 120 kg (264 lb).
-  Transport and store NUSHU between 0°C (32°F) and 30°C (86°F).
-  Maximum humidity should not exceed 70%.
-  Do not leave your NUSHU exposed to direct sunlight during storage.
-  No modification of NUSHU is allowed.
-  Use with caution on slippery and wet floors.
-  Keep out of the reach of children.
-  **WARNING:** Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of NUSHU, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
-  Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
-  **WARNING:** Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
-  It is possible that high levels of interference due to close proximity or due to the power of a source, disrupts the operation of this device. Medical electrical devices require special precautions regarding electromagnetic compatibility and all devices must be installed and put into service in accordance with the information specified in this user manual.
-  Please keep the shoe box with the label for future reference.

5 Setup of NUSHU

5.1 What's in the Box

Your NUSHU box includes: (1A) NUSHU footwear, (1B) charging adapter, (1C) wireless charging unit, (1D) pad for wireless charging unit, (1E) this quick guide.



5.2 Charge the Shoes

Assemble the two pieces of the charging unit like a jigsaw puzzle (2A).

Connect the two charging cables to the power adapter (2B). Only use the supplied power adapter.

Place the shoes on the charging station. Each heel should completely cover a round disc on the charging station (2C).

Fully charging the shoes can take up to 6 hours.

LED Light	White	Green
	Status	
SLOW flashing	Charging	Charging
QUICK flashing	NOT Charging	NOT Charging
OFF	Fully Charged	—
ON	—	Fully Charged



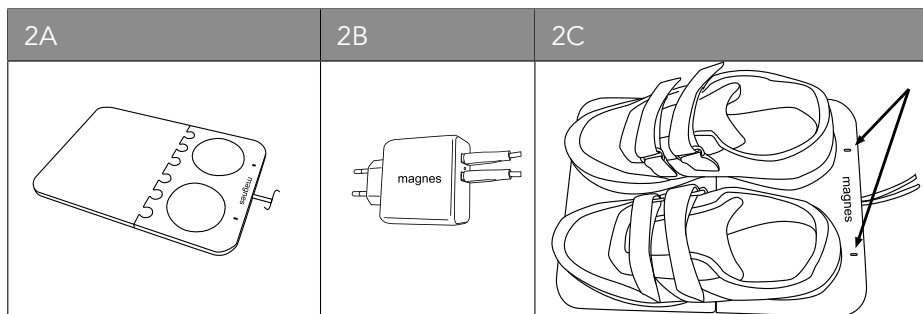
Do not charge the shoes while wearing them.



If the LED is blinking very fast, the shoes are not positioned correctly onto the charging station.



For the best experience and to preserve the battery life of the shoes, charge the shoes every night, if you wear them daily. Otherwise, we recommend that you fully charge the shoes at least once a month.



5.3 Install the NUSHU Mobile App

Scan the QR code or go to the Apple Store to download NUSHU.



The most recent version of this user manual is also available in the NUSHU mobile app.



Mobile costs may occur when using the NUSHU app.

5.4 Log In

Open the NUSHU app.

Select **Log In**.

If you already have an account, please enter your email address and your password to log in.



Make sure to activate your cellular network with internet access or Wi-Fi.



If you do not have an account, see Section 5.5.

5.5 Create an Account

Select **Create an account**.

Fill in all required fields. Enter your height and weight in either metric or imperial units. Click on **Create** at the bottom of the screen.

Select **Go to Sign in** and continue with Section 5.4 **Log In**.

You need access to your email account to reset your password if needed.

It is also possible to create multiple accounts based on one main email address. Assuming the main email address is `nushu@yourcompany.com`, register additional accounts as `nushu::name1@yourcompany.com` (4). This way, multiple accounts can be managed through one main email address.

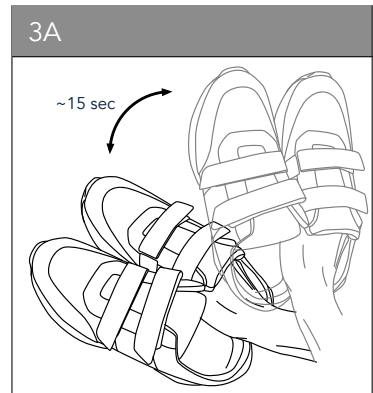
All emails of that account will be sent to `nushu@yourcompany.com` (5). To log into that account, ensure to use the full email `nushu::name1@yourcompany.com`. Email aliasing works across the whole NUSHU platform.

- ⚠ Make sure to activate your cellular network with internet access or Wi-Fi.
- ⚠ The email address is shared with Magnes to create your account.
- ⚠ When using multiple accounts with one email, ensure that the main email account exists and that you have access to it. Access is required to reset the password and for account deletion.

5.6 Turn ON Your Shoes

NUSHU shoes can be turned ON by gently shaking them from side to side for at least 15 seconds (3A). The shoes vibrate twice when they power ON.

- ⚠ If the shoes do NOT vibrate, the battery may be low. Charge the shoes for at least 15 minutes and try again.
- ⚠ If the shoes do not turn ON, they may be in deep sleep. Follow the instructions in the NUSHU User Manual to wake them up from deep sleep.



6 Technical Specifications

NUSHU	Lifetime	24 months
	Gait events accuracy	Heel Off, Flat Foot: 36 ms Toe Off, Heel Strike: 8 ms
	Gait parameters	Gait velocity: 0.06 m/s
	Power supply/capacity	Li-ion battery 3.7 V, 750 mAh IEC 62133-2:2017
	Storage capacity	32 GB (~ 600 h of data recordings)
	Wireless communication	BLE IEEE 802.11b/g/n (Wi-Fi)
	Wireless connection power	BLE: 3 dBm Wi-Fi: 19.5 dBm
	Battery charging rate	Regular: 260 mA Precharge (low voltage): 52 mA
	Unit weight	40 g for each side
	Dust- and waterproof rating	IP22 Protection against objects and particles > 12.5 mm and dripping water when tilted at 15°.
		The device conforms with the European health, safety, and environmental protections standards.
		Contains FCC-ID: 2BDTE-NUSHU1V1
Charging Station	Mains voltage	110 – 240 V at 50 – 60 Hz
	Valid inputs	5 V/3.0 A 9 V/2.0 A 12 V/1.5 A
	Output power	15 W each pad – 30 W total
	Compatible wireless charging standard	Qi

7 Explanation of Symbols Used

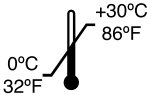
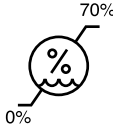
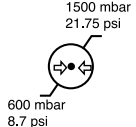
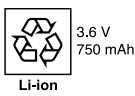
4			
A		B	
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O		P	
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S		T	
U			

Fig.	Title	Description	Standard (Ref. Nr.)
4A	Caution	Important safety or operating instructions	ISO 15223-1 (5.4.4)
4B	Read the user manual	—	ISO 15223-1 (5.4.3)
4C	Separate Collection of WEEE	Do not dispose in household waste	Directive 2012/19/EU / BS EN 50419 (—)
4D	Serial number	—	ISO 15223-1 (5.1.7)
4E	CE marking	European conformity	EU Regulation 765/2008 (—)
4F	FCC mark	Compliance with FCC rules and regulations	47 CFR FCC Rules (—)
4G	Dust- and waterproof rating	See Technical Specification	IEC 60529 (IP22)
4H	Keep dry	Keep away from rain	ISO 15223-1 (5.3.4)
4I	Maximal applicable load	—	ISO 7000 (0630)

4J	Temperature limit	Transport and storage temperature	ISO 15223-1 (5.3.7)
4K	Humidity limitation	—	ISO 15223-1 (5.3.8)
4L	Atmospheric pressure limitation	—	ISO 15223-1 (5.3.0)
4M	Manufacturer	—	ISO 15223-1 (5.1.1)
4N	Recycling	Battery disposal information	ISO 7000 (1135)
4O	Mains electricity is double insulated	—	IEC 60417 (5172)
4P	Indoor use only	—	IEC 60417 (5957)
4Q	Reference number	For identification of product at manufacturer	ISO 15223-1 (5.1.6)
4R	Unique device identifier	—	ISO 15223-1 (5.7.10)
4S	Date of manufacture	Manufacturing date	ISO 15223-1 (5.1.3)
4T	Keep out of reach of children	—	ISO 7010 (M055)
4U	Prescription use only	Restricted to sale by or on the order of a licensed HCP	21 CFR 801.109 (—)
