

REVISION HISTORY		
Date	Version	Scope of the modification
16/12/2024	1	Creation for FDA pre-sub
18/02/2024		Update for HFE testing
28/03/2025	2	Update after HFE + Technical testing: • Layout corrections due to editor bugs • Reorganization for clarity and printing constraints • Correction on required Chrome version for download software • Text updates mandated by BUG-6, 7, 8, 9, 10, 11, 13, 14, 21, 23, 24, 25, 26, 29, 30
17/04/2025	3	• Missing information regarding BUG-14 + PRISK23, modification of sentence for compliance with IEC TR 60601-4-2 before the EMC tables • Addition of table for immunity to proximity magnetic fields and addition of IEC TR 60601-4-2 immunity levels
26/09/2025	4	• Addition of two caution statements regarding cybersecurity (threat IDs 1 and 10)
10/10/2025	5	Addition of cybersecurity information in section Device maintenance
5/11/2025		Update for CECILE project: addition of WEEE and CE symbols, update of recycling information, addition of SAR information
19/11/2025		Correction of bluetooth EIRP and frequency range
1/12/2025		Addition of battery ratings
14/10/2025	6	Changed service life for lifetime

		Update for change of design (LEDs, labeling), streaming mode	
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<i>Sandrine Burriel</i> 2026-02-03		<i>Alexandre Naprix</i> 2026-02-03	<i>stephane maret</i> 2026-02-02

How to use this document

This document is organized in sections:

Section	Contents	Page #	Notes
1	Revision history Signatures How to use this document	Normal	For QMS compliance of the entire document
2	Front cover of printed manual	1 Not shown (no footer)	Must be one page only
3	Inside front cover	2 Shown	Must be one page only
	Content of the manual	Starts from 3	Must remain a multiple of 4 (booklet format)
4	Inside back cover	No (no footer)	Memo image for HCP, limit margins for maximum image size Must be one page only
	Back cover	No (no footer)	Memo image for Patient, limit margins for maximum image size Must be one page only

The sections are required to maintain independent and consistent page numbering of the actual printed manual.

If the document needs to be updated:

- **Only edit the document in Google Docs in Chrome!** Word modifies styles (Header 5 and 6 are lost, paragraph spacing is lost) and removes the properties of some elements such as the date chips (e.g. : “Last revision” on the cover page)
- Make sure to display non printable characters (Ctrl + Maj + P) to see the section breaks. **Do not remove section breaks!** They are crucial for the layout and proper numbering
- Before exporting the document as a PDF, make sure to update the “Last revision” date chip (cover page) and the ToC (page 2)

To export the manual into a PDF format suitable for the printing company:

- Export as PDF: File > Download > PDF file (.pdf) (Fichier > Télécharger > Document PDF (.pdf)) in Google Docs
- To test the result on a regular printer, print pages 3-end (Front cover to Quick reference - EEG recording) only as a booklet. The Quick reference pages may be cropped a bit, regular printers cannot print without any margins but professional printers can. The final results from the printing company should be checked and approved before final printing.

To keep certain headers hidden in the table of contents (QMS sections, ToC header), they need to be styled with:

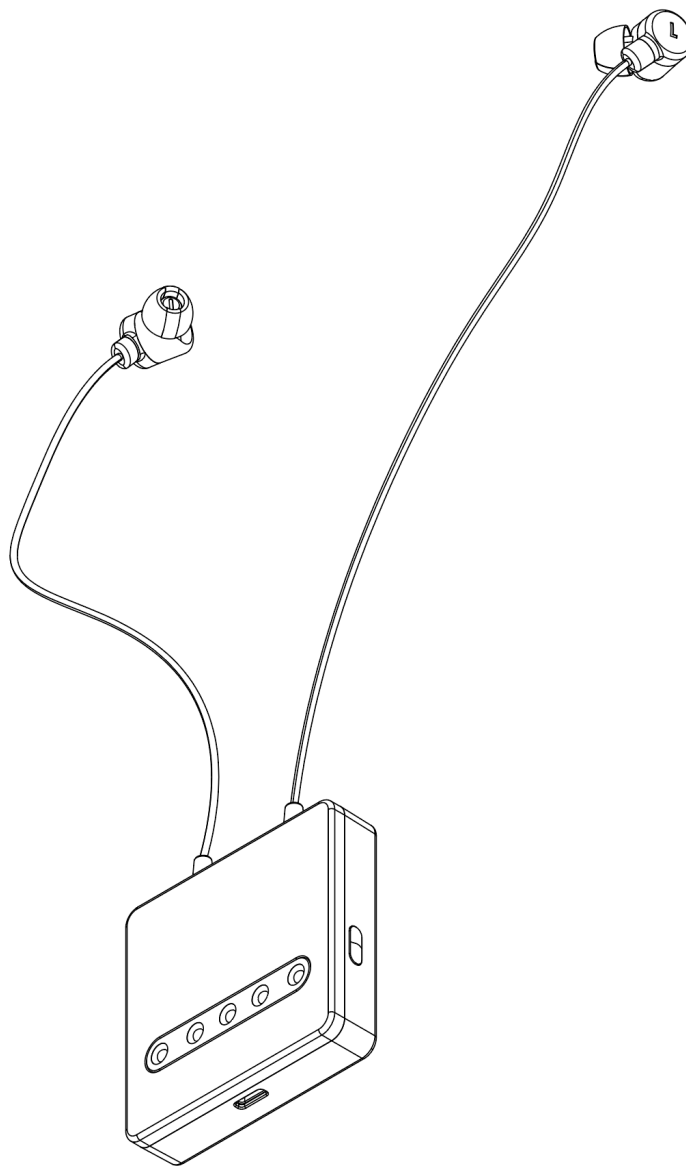
- Header 5 instead of Header 1
- Header 6 instead of Header 2

The styles are identical, but the manual's ToC only includes the top levels.



NX01

INSTRUCTIONS FOR USE



Last revision: 2026-02-02

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MANUFACTURER

If you need assistance in setting up, using or maintaining NX01, please contact us:

Manufacturer	Address	Contact
NAOX Technologies	62 Rue Mazarine 75006 Paris FRANCE	contact@naox-technologies.com +33 (0)781605826

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PACKAGE AND DEVICE SYMBOLS

					
Consult Instructions For Use	Manufactured For + Manufacturing Date	Medical Device	Model Number	Catalog Number	Unique Device Identification
					
Serial Number	Batch Number	Expiration Date	Temperature Limits	Humidity Limitations	Single Use Only
					
Direct Current	Type BF Applied Part	Prescription Only	Electronic equipment, do not dispose of the device or battery with household waste	Compliance with EU regulations. The number of the notified body responsible for the certification is affixed next to this symbol	

GLOSSARY

Term	Definition
BLE	Bluetooth Low Energy
EEG	Electroencephalogram
HCP	Healthcare Professional
LED	Light Emitting Diode
Patient	Adult patient, or pediatric patient under the supervision of their adult caregiver.
Acquisition	Collecting EEG signals with the NX01 device.
Recording	Acquisition stored in the NX01 device's memory.
Streaming	Acquisition performed via Bluetooth, with data transmitted to and saved on the monitoring computer.

PRODUCT DESCRIPTION

DEVICE DESCRIPTION

NX01 is a wearable device for continuous acquisition of non-invasive EEG signals in healthcare and home settings. It consists of a pair of earbuds (one per ear) integrating a pair of active, dry electrodes, connected by a cable to a command panel. This command panel houses the battery, the internal memory to store the data, the main acquisition unit with function buttons and LEDs which display the device's status. The system offers the following main features:

- The EEG signal is measured through 1 bipolar channel from a patient's ear canals in a cross-ear montage (one ear referenced to its contralateral).
- The dry EEG electrodes are integrated into disposable eartips that are intended for a single use.
- The system is powered by a rechargeable low-voltage battery, and can record data for 10 hours on a single charge (a full battery charge takes approximately 7 hours with the provided charger).
- The device has LED indicators to report the operating status and signal quality to the user.
- The EEG data can be retrieved by a trained healthcare professional as a European Data Format (.edf) file.
- The EDF file contains the EEG data sampled at 250 Hz.

INTENDED USE/INDICATIONS FOR USE

NX01 is intended for use in healthcare or home settings to acquire, record, and transmit electrical activity of the brain by placing non-invasive electrodes in the ears of patients. It acquires, records and transmits one channel of electroencephalogram (EEG) data. The medical use of data acquired by NX01 is to be performed under the direction and interpretation of a licensed medical professional. NX01 does not provide any diagnostic conclusions about the patient's condition.

The NX01 is intended for use with adult and pediatric patients (6+).

INTENDED USERS

NX01 is intended for use by different populations:

- Patients:
 - Adults using the device autonomously or with assistance.
 - Children (from age 6) under the supervision of an adult caregiver.
- Healthcare professionals:
 - Neurologists prescribing the use of the device, who will review the EDF files.
 - Nurses, physician assistants, biomedical engineers in charge of device distribution / collection / cleaning and disinfection / maintenance, performing acquisitions in the healthcare facility, patient training, and data retrieval on behalf of the neurologist.

ENVIRONMENTS AND MODES OF USE

The physician prescribing the use of NX01 will determine that the NX01 is suitable for a given patient (in particular with regards to the contra-indications listed in §Product safety).

The NX01 can be used in two modes:

- The **streaming mode**, which can only be used for examination in a healthcare facility (requires the Download Station, only available to HCPs).
- The **recording mode**, designed for long-term monitoring of patients in healthcare facilities or home settings.

The patient will use the **recording mode** of the device to perform acquisitions at home, without the direct supervision of a trained HCP. The patient will receive training from the HCP on how to prepare the device and perform recordings, and instructions from their physician regarding the context, frequency and duration of recordings so as to collect the most relevant data for their specific case.

PRODUCT SAFETY INFORMATION

To ensure safety and optimal performance of the system, read this manual in its entirety before use. Follow all instructions and use the device only as directed.

CONTRAINDICATIONS

Do not use in the following cases:

1. Deformation of the ear canal
2. Presence of skull bone defects, e.g. after prior neurosurgery
3. Patient reporting irritation of the ear canal
4. Patient with an active implanted device, such as a pacemaker, implanted defibrillator, vagal nerve stimulation device, deep brain stimulation device, cochlear implant, implanted hearing aids
5. Patient with conventional or bone conduction hearing aids
6. Patient with a medical diagnosis of cerumen impaction (excessive earwax build-up)
7. Patient presenting an allergy, injury, lesion, open wound, infection or skin inflammation in the ear canal
8. Patient presenting with a case of suspected traumatic brain injury, skull fracture or ear canal fracture
9. In a surgical setting and/or in conjunction with high frequency surgical equipment

Symbol	Stands for	Meaning
	CAUTION	The user needs to take precautions in the event where the described situation happens.
	WARNING	The user needs to prevent or avoid the described dangerous situation.

CAUTIONS

 If the NX01 device fails to operate despite attempting all troubleshooting steps described in this manual, contact support (care@naox-technologies.com) as soon as possible.

 Do not use the NX01 device on patients undergoing defibrillation.

 Do not use the NX01 device with eartips that are not supplied by NAOX, in their original packaging. The NX01 device is not compatible with any other eartips on the market.

 Do not use the NX01 device with a charger and charging cable other than the one supplied with the NX01 device.

 Ear canal irritation

- Any patient reporting irritation of the ear canal before use will have to undergo medical examination to confirm that they can use the NX01 device.
- Any complaint regarding a potential irritation of the ear canal linked to the use of the NX01 device needs to be reported to the patient's attending physician immediately and followed up by a medical examination.

WARNINGS

 Hazards

- The battery used in the NX01 device may present a risk of fire, explosion, or chemical burn if handled incorrectly. Do not expose the NX01 device to excessive heat or fire. Do not crush, puncture, or incinerate as doing so can result in fire, explosion or the release of toxic gases. Do not use or charge if the NX01 device appears to be leaking, discolored, deformed, or in any way abnormal.
- Ensure that the cables do not wrap around your neck or any part of your body to avoid the risk of strangulation.

 Electrical and electromagnetic safety

- 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
- 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
- Portable RF communications equipment should be used no closer than 30 cm (12 inches) to any part of NX01. Otherwise, degradation of the performance of this equipment could result.

 Children and pets

- The NX01 device may only be used on children ages 6 and above under the supervision of a caregiver.
- Keep the NX01 device away from children and pets. The NX01 device and other small components of the NX01 device may present a choking hazard.

 Medical devices

- Do not use the NX01 device on patients undergoing an MRI scan or in proximity to an MRI device.

 The device prescribed by the healthcare professional is strictly for the prescribed patient's use only. Do not let anyone else use the device. Doing so will create false and inaccurate data, leading to misdiagnosis and potential patient harm.

ADVERSE EVENTS

If the patient experiences any adverse events while using the NX01 device (including an allergic reaction to any of the materials used in the eartips), discontinue the use and contact a trained healthcare professional immediately. The healthcare professional shall contact NaoX customer service and provide as much information as possible about the adverse event.

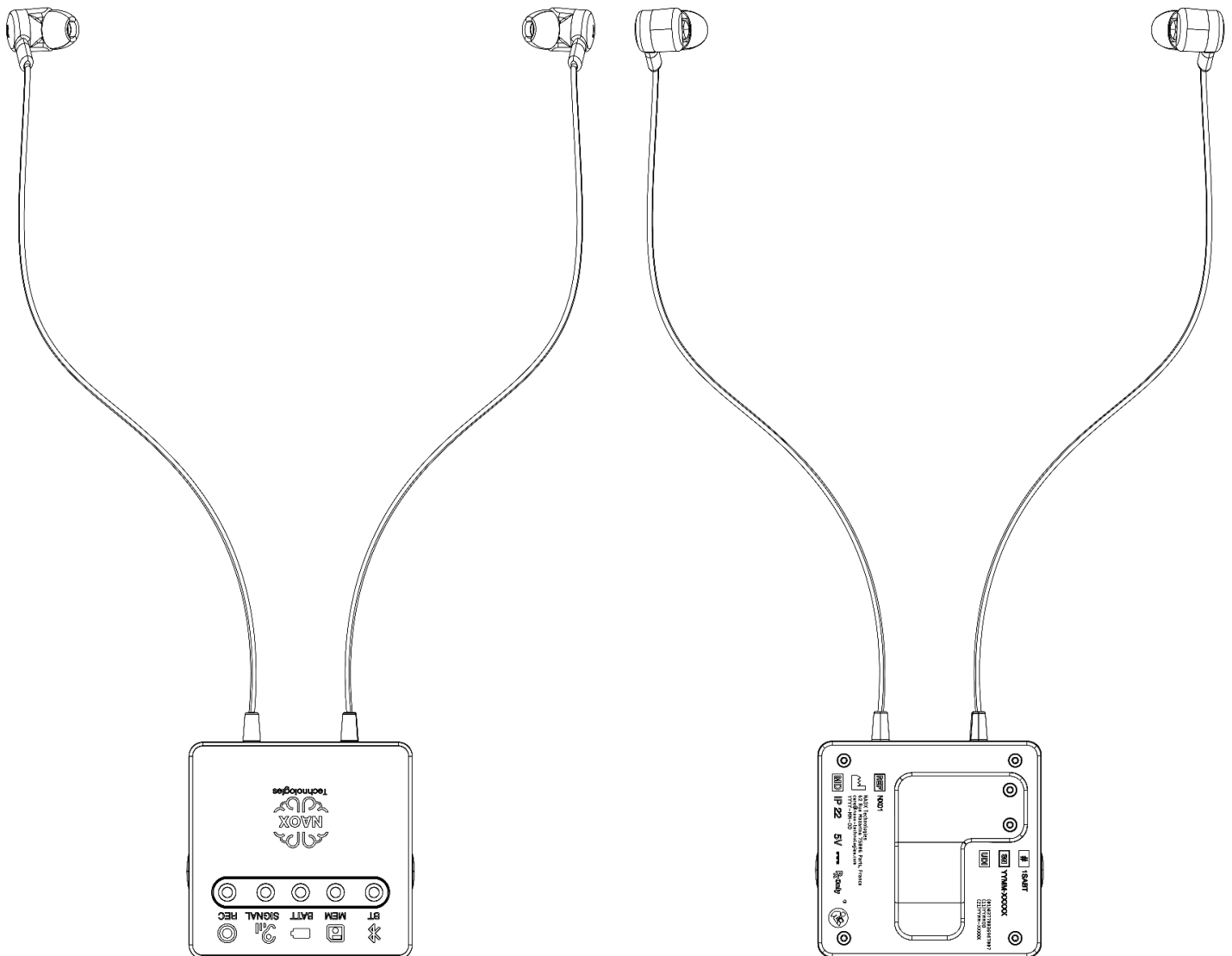
STERILITY

The NX01 device and accessories are provided non-sterile.

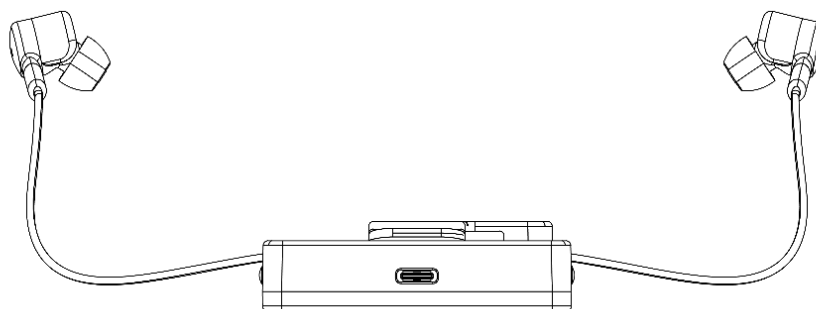
PACKAGE CONTENTS

The package contains:

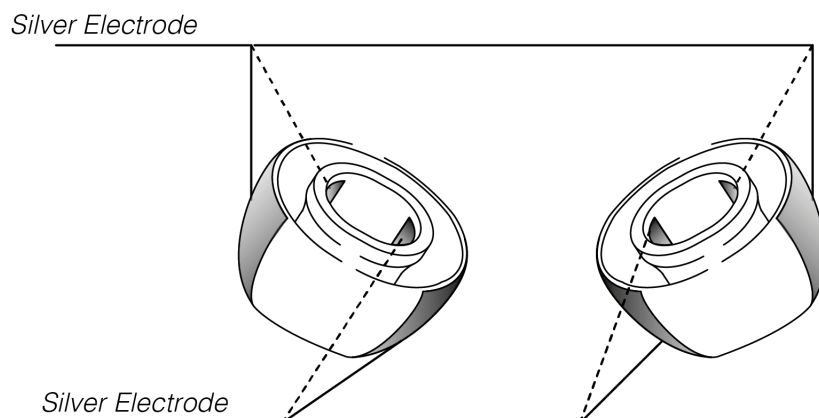
- **Two earbuds** connected by a cable, with a command panel. This command panel houses the battery, the internal memory to store the data, the main acquisition unit with function buttons (1 and 2) and LEDs which display the device's status.



The command panel also includes a USB-C port which can be used to charge the device (with the provided charger, described below), and for data transfer (with the provided cable, described below).

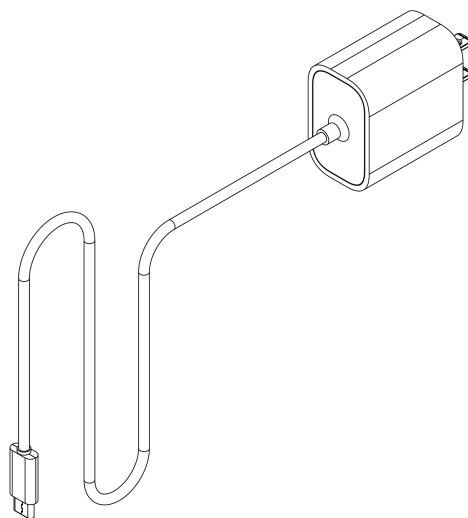


- **A set of eartips** in three sizes (S for small, M for medium and L for large), to be placed on the earbuds for the acquisition. It is important to note that the provided eartips are for single-use only. Therefore, they should be discarded and replaced for every acquisition that takes place. To purchase extra eartips contact NAOX Technologies (see §Manufacturer).



- **A charger** with the following specifications:

Input	AC 100-240V, 50/60Hz
Output	USB-C DC 5.0V, min 1.0A
Compliance	IEC 60601-1

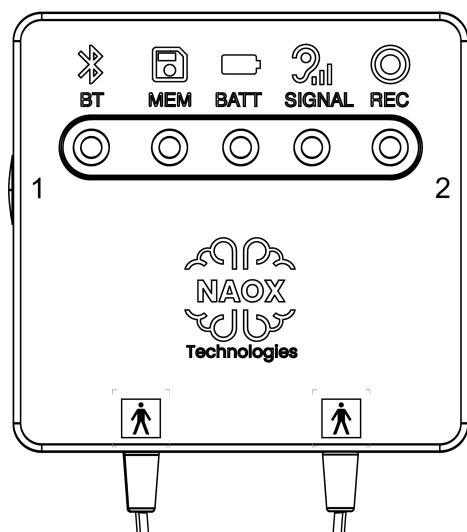


- **A USB cable** to connect the device to a computer
- **A pair of bud covers** to stabilize the earbuds in the patient's ears (especially during night acquisitions). They are also available in three sizes (S for small, M for medium and L for large) and are designed for single-patient use. To purchase extra bud covers, contact NAOX Technologies (see §Manufacturer).



DEVICE COMMAND PANEL

The NX01 command panel includes 2 buttons and 5 LEDs used to pilot and monitor the device.

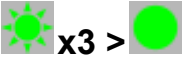


BUTTONS

The buttons are located on each side of the command panel.

Function	Button(s) and how to use them	Associated LED
Power on	Simultaneously press and hold both Buttons 1+2 until BATT and MEM turn on.	BATT  MEM 
Power off	Simultaneously press and hold both Buttons 1+2 until all LEDs switch off. Note: The device cannot be turned off while an acquisition is in progress. Make sure to stop the current acquisition before attempting to turn off the device.	
Signal quality check	Click Button 2 for a manual signal quality check during an ongoing acquisition.	SIGNAL 
Start/stop an acquisition	In recording mode: double-click Button 2. In streaming mode: through the interface of the Download Station only (reserved for the use of the trained healthcare professional). Note: No acquisition can be made while the device is charging. Make sure to unplug the charging cable before attempting to perform an acquisition.	REC 
Bluetooth pairing	Double-click Button 1. Note: The use of Bluetooth is reserved for the use of the trained healthcare professional. It can only be used for streaming acquisition and requires the Download Station to start and stop the acquisition.	BT 

LEDs

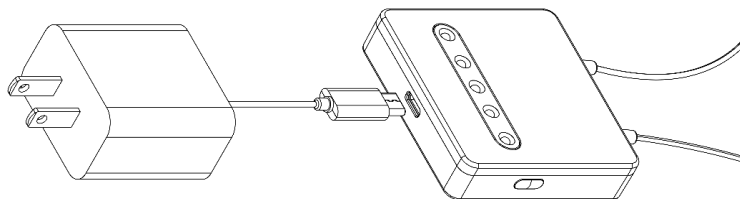
LED	BT	MEM	BATT		SIGNAL	REC
Icon						
Meaning	Bluetooth	Memory	Battery		Signal Quality	Recording
			In use	Charging		
Color and pattern	 Blinking blue The NX01 device is in pairing mode	 x3 > 3 blinks followed by steady green The memory is completely empty		 Pulsing white The NX01 device is charging	 Pulsing white Displayed during analysis of the signal quality (before the start of a recording and when a manual signal quality check is triggered)	 Steady white An acquisition is in progress
	 Steady blue The NX01 device is paired to another device	 Steady green The memory is partially used, the remaining space allows for at least 8 hours of EEG recording	 Steady green The NX01 device is on and the battery level allows for at least 10 hours of EEG acquisition	 Steady green The NX01 device is fully charged and can be unplugged from the charger	 Steady green The EEG signal quality is good and the acquisition can start or continue without further action	 Blinking white The device is processing data in its internal memory to finalize the generation of the EDF file
		 Steady orange The memory is partially used and the remaining space allows for less than 8 hours of EEG recording	 Steady orange The battery level allows for more than 1 hour and less than 10 hours of acquisition (too low for a full night, but the device can still be used)		 Blinking orange The EEG signal quality is weak, reposition the electrodes	
		 Blinking orange The remaining space allows for less than 1 hour of EEG recording	 Blinking orange The battery level allows for less than 1 hour of acquisition. Recharge the device			

 The LEDs only reflect device status and operation mode. They do not provide any information about the physiological status or health of the patient.

BASIC DEVICE OPERATIONS

CHARGING THE NX01 DEVICE

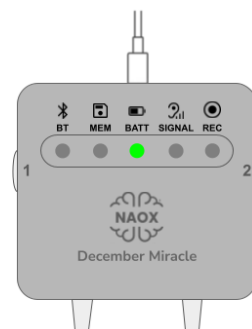
To recharge the NX01 device, plug the USB-C cable into the command panel and plug the charger into an electrical outlet as illustrated below. Make sure that the device and charger both remain easily accessible, so that they can be unplugged from each other or from the outlet quickly, safely and without difficulty.



When the NX01 device is plugged and charging, **BATT**  begins pulsing white.

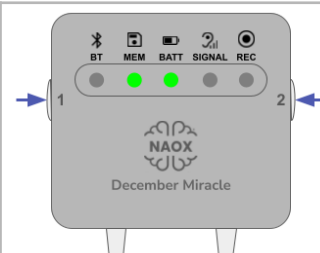


When the NX01 device is fully charged, **BATT**  turns steady green. The device can then be unplugged from the charger and used.



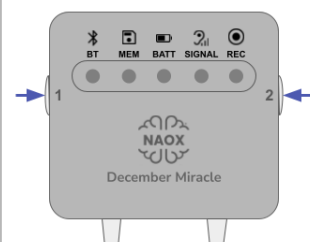
TURNING THE NX01 DEVICE ON

Turn on the NX01 device by pressing simultaneously Buttons 1+2, holding until **BATT**  and **MEM**  turn on.



TURNING THE NX01 DEVICE OFF

To avoid interrupting any acquisition, the NX01 device cannot be turned off until the acquisition has actually stopped. Make sure that no acquisition is occurring, and turn off the device by pressing Buttons 1+2 simultaneously and holding until all LEDs switch off.

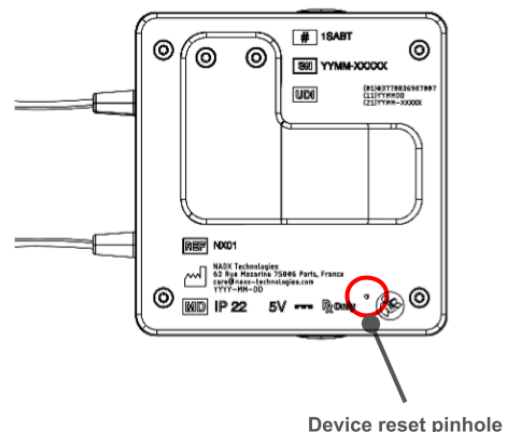


RESETTING THE DEVICE

If a device reset becomes necessary:

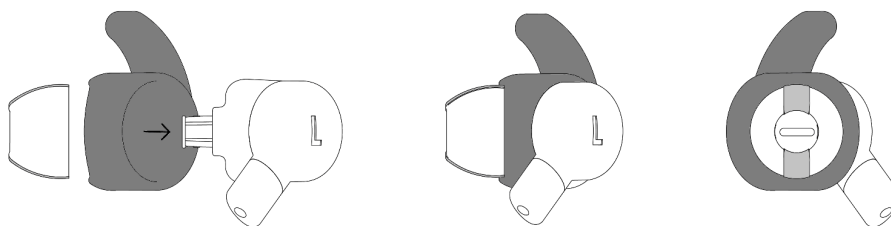
1. Locate the pinhole on the back of the device.
2. Using a thin tool (paper clip, toothpick), press and hold the reset button for 10 seconds.

Note: A reset does not clear the device's memory. Any data stored in the device remains available for later download.

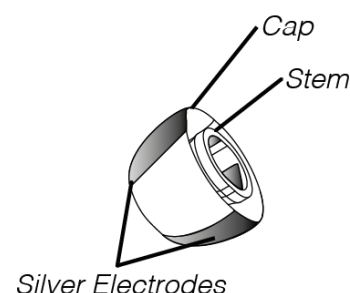


PREPARING THE NX01 DEVICE FOR AN ACQUISITION

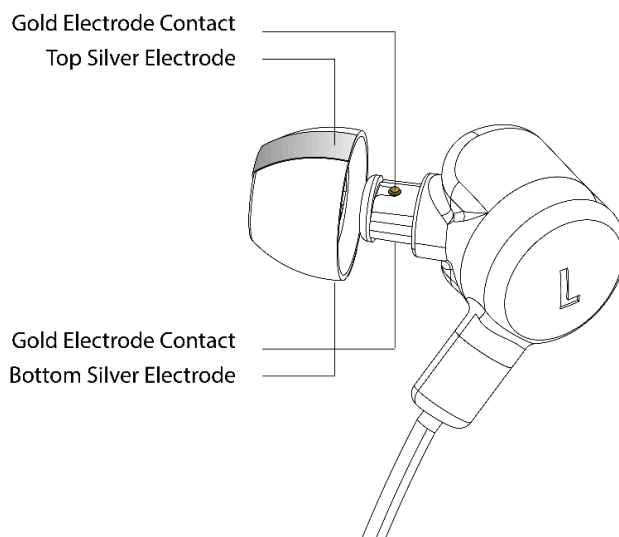
- Before handling the NX01 device and eartips, make sure to wash your hands.
- For acquisitions performed during sleep, it is recommended to use the bud covers to stabilize the earbuds in the patient's ears.



- Open a bag of eartips.
- An eartip consists of:
 - **Cap**: the outer part, which will be in direct contact with your ear canal.
 - **Stem**: the inner part, which will be in contact with the earbud's gold electrodes.
 - **Silver electrodes**: the metal bands visible on the outside of the cap and inside the stem. The electrodes inside the stem must be in contact with the earbud's gold connectors. Always make sure to properly align the bands with the gold connectors before plugging the eartip.



- Insert the eartips, making sure that the silver electrodes are aligned with the gold electrode contacts on the earbuds.



- To prevent the eartips from detaching during an acquisition, make sure that each eartip is plugged all the way onto the connector and firmly attached to the earbud.

INSTRUCTIONS FOR PATIENT USE

INITIAL TRAINING BY THE HEALTHCARE PROFESSIONAL

NX01 can be prescribed for long-term monitoring of patients in home settings. In this context, you will be expected to perform recordings at home, without the direct supervision of a trained healthcare professional. To ensure that you can benefit the most from the use of the NX01 device, your healthcare professional will train you on the proper use of the device during the time that it is first prescribed to you.

When you arrive at the medical facility:

1. The HCP will provide you with the NX01 case containing the device, its charger and this instructions manual, as well as three sets of eartips, one in each size.
2. You open the case and the HCP provides explanations and relevant information about the earbuds, the eartips, the command panel and the operating functions of the device.
3. The HCP will demonstrate how to properly attach the eartips to the earbuds.
4. Together with the HCP, you will determine the proper eartip size for your own ears.
 - The eartips are available in three sizes (small, medium, large). Selecting eartips of the proper size will ensure both your comfort and good signal quality.
 - The eartips should be snug in your ears. They should feel comfortable to you and fit well in your ear canal.
 - Eartips that are too large may hurt your ear canal or cause the earbuds to fall out of your ears.
 - Eartips that are too small may move within your ear canal or cause the earbuds to fall out of your ears.
 - Try on the earbuds yourself to familiarize yourself with the process and to check the fit of the eartips in your own ear canal.
 - The HCP will ask you to perform a few movements (tilting and turning your head, opening and closing your mouth) to check that the earbuds remain in place.
5. Once you have determined the proper eartips size together, the HCP will provide you with an adequate number of eartips of the proper size for your prescribed recordings.
6. The HCP will then thoroughly review this instructions manual with you and conduct a test. You should follow the HCP's verbal and visual instructions, but perform the tasks yourself. The HCP will guide you until you are able to perform an end-to-end recording without any help from them.

 If you wear glasses with metal legs or metal earrings/piercings, the HCP will use the test to assess the quality of the data when such elements are present. You may be required to remove the glasses/piercings for every recording.

 Earrings/piercings should be removed before a recording, to avoid any entanglement of the cable in the earring/piercing.

 In-ear hearing aids should be removed before a recording.

In order to collect the most relevant data for each patient, the context, frequency and duration of recordings are decided by your trained healthcare professional. As a patient, make sure to follow their instructions when using the device at home.

RECOMMENDATIONS

EEG signals are very sensitive, low amplitude signals which can be affected by a number of external and biological signals, such as muscle movement, interference from surrounding devices, etc.

During a recording, the NX01 device performs a signal quality check every 15 minutes. If the signal quality is insufficient (**SIGNAL** ② turns orange), it may be due to excessive movement or activity on your part.

Therefore, to generate the best possible EEG signals, it is recommended to use the NX01 device indoors, during resting periods (such as naps or sleep), or while doing quiet activities that do not involve excessive movement (such as meditating, reading, listening to calm music or watching TV, provided you avoid contents that are too exciting or rousing).

 Avoid activities that can create signal distortions, which include (but are not limited to) eating, talking, walking, running, any sudden movement. These should be avoided as much as possible during a recording to maintain signal quality.

DATA RETRIEVAL BY A HEALTHCARE PROFESSIONAL

At regular intervals or when the memory space becomes full on your device, bring the device to your trained healthcare professional, who will retrieve the data.

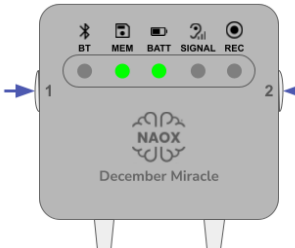
RETURNING THE DEVICE TO THE HEALTHCARE PROFESSIONAL

Once the prescription period is over, you should bring the device back to your healthcare professional along with its charger, this instructions manual, as well as any unused eartips, in its original case.

 To ensure the safety of your personal data, only return your NX01 device to your healthcare professional in person.

RECORDING AN EEG

PREPARATION

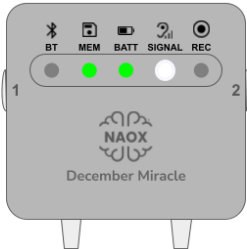
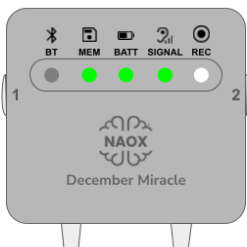
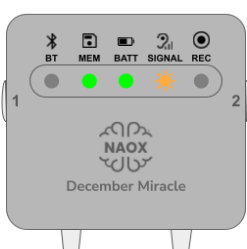
1. Make sure that your ear canal is clean. If needed, use a Q-tip to remove any earwax inside the ear canal.	
2. Turn on the NX01 device by pressing simultaneously Buttons 1+2, holding until BATT  and MEM  turn on.	
3. Make sure that the NX01 device is charged and the battery level is sufficient for the length of the recording (BATT  should be green for a full night, or orange for a shorter recording).	 
Notes: - To prevent a recording from being interrupted unexpectedly due to a lack of battery power, the NX01 device does not allow you to start a recording when the battery allows less than 1 hour of recording, BATT  is blinking orange). - If the battery completely discharges while a recording is taking place, all of the data obtained until the moment the device turns off is stored in memory and remains available for download by the HCP.	
4. Check the available memory on MEM . MEM  remains steady green as long as the available memory allows for at least 8 hours of recording. - When MEM  turns orange, please note that the memory space remaining allows for less than 8 hours of recording. - If the memory is full or only allows for less than 1 hour of recording, MEM  starts blinking orange. No new recording can be started, and you need to bring the device to your HCP so that they can retrieve the data.	
Note: if the device runs out of memory while a recording is taking place, the recording stops. No existing data is erased or overwritten, all of the recordings remain available for download by the HCP.	
5. Insert the earbuds into your ears, ensuring the left earbud (marked L) goes into your left ear and the right earbud (marked R) goes into your right ear. Position the earbuds so that the eartips are snug in your ears. Once you have reached proper positioning of the eartips, you can move on to the next step.	



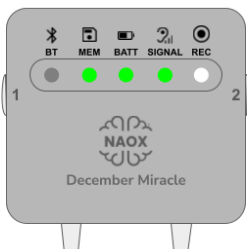
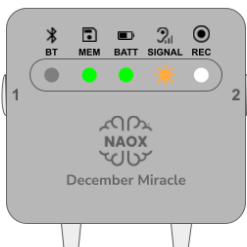
If one or both eartips slide off the earbuds and remain stuck in your ears:

- Stay calm and refrain from pushing the eartip further in your ear.
- If you can, ask someone to carefully remove the eartip from your ear. Do not use equipment such as tweezers, which could lead to injury.
- If the eartip remains deeply stuck, consult a healthcare professional to have them remove the eartip safely, with adequate equipment.

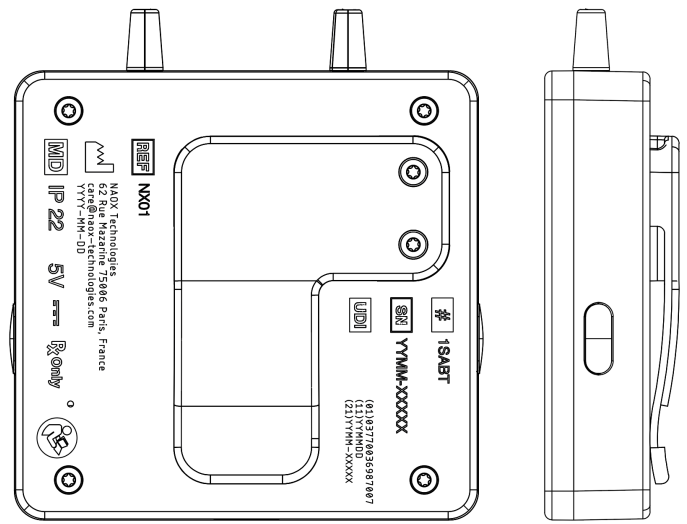
STARTING THE RECORDING

6. Start a recording by double-clicking Button 2. This launches an automatic signal quality check, and SIGNAL  begins pulsing in white while the NX01 device is analyzing the signal. This analysis takes approximately 30 seconds. For best results, sit comfortably without moving until the analysis terminates.	
7. If SIGNAL  turns steady green, the signal quality is good and the actual recording starts automatically. REC  lights up steady white, indicating that a recording is in progress.	
If SIGNAL  blinks orange, the signal quality is not good enough. This may be due to bad contact between the eartips and the ear canal. - Reposition the eartips in your ear canal, making sure that they are tight and do not move around. Start the recording again. - If the signal quality is still insufficient, remove the earbuds and check the alignment of the eartips' silver electrodes and the earbuds' gold connectors. Start the recording again. If you still cannot get a good signal after both of these checks, refer to section §Troubleshooting steps for patients below for more detailed steps. Note: The NX01 device does not allow a recording to start if the signal quality is insufficient.	

DURING THE RECORDING

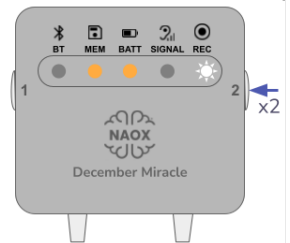
8. Regularly check SIGNAL . During a recording, the signal quality is automatically checked every 15 minutes. The result is displayed until the next check is performed. If you notice that SIGNAL  is blinking orange at some point during your recording, please note that the recording does not stop: you should reposition the earbuds in your ears to improve the signal quality, and perform another signal quality check by clicking on Button 1.	 
Regularly check the battery level BATT  and the memory MEM  to make sure that you can perform the recording entirely.	

⚠ To prevent the NX01 device's cable from getting entangled with an object in your environment or with your clothes, make sure to use the clip on the back of the command panel to attach the panel to your clothes so as to keep the system close to your body and to limit the movement of the cable.



STOPPING THE EEG RECORDING

9. To stop the EEG recording, double-click Button 2. **REC** ● blinks white while the device finalizes your recording in its internal memory (the duration depends on the length of the recording). The device cannot be turned off during this processing. Once it completes, **REC** ● turns off and you can proceed to the next step.



10. Turn off the device by pressing Buttons 1+2 simultaneously and holding until all LEDs switch off.
Gently remove the eartips from the earbuds and dispose of them.



11. Recharge the NX01 device for the next use.



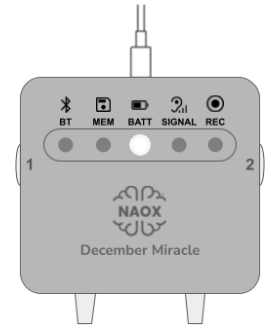
TROUBLESHOOTING STEPS FOR PATIENTS

 In the event that the NX01 device has been dropped, damaged or crushed, visually inspect the device for physical damage first.

- If there is physical damage to any component of the NX01 device, do not use the device. Bring the device back to your healthcare professional for replacement.
- If the NX01 device appears to be intact, it may still be safe to use but its performance may have been affected. The next time you see your healthcare professional, bring the device and make sure to ask your HCP to check the quality of the data.

THE DEVICE WILL NOT TURN ON

1. Make sure the device has been charged with the provided charger.
2. Attempt a device reset.
3. Make sure the charger is functional. When the NX01 device is plugged to the charger, **BATT**  should light up: the light pulses if the battery is charging, or is steady green if the battery is fully charged. If **BATT**  does not light up, the charger may be faulty. In that case, consult your healthcare professional.

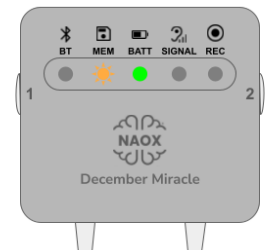


THE SIGNAL QUALITY IS INSUFFICIENT

1. Make sure that your ears are clean. If needed, use a Q-tip to remove any earwax inside the ear canal.
2. Check that the eartips are tight in your ears and cannot move within the ear canal.
3. Remove the earbuds from your ears, and check that the silver electrodes on the eartips and the gold connectors on the earbuds are correctly aligned.
4. If none of these solutions improves signal quality, change the eartips.
5. If changing the eartips does not improve signal quality, please consult your healthcare professional for instructions on proper use of the device and to check that the device is functional.

THE MEMORY IS FULL

- If the memory is already full or only allows for less than 1 hour of recording when you turn on the NX01 device, **MEM**  is orange and blinking. No new recording can be started, and you need to return the device to your HCP for data retrieval.
- If a recording is ongoing and the memory becomes nearly full (less than 10 minutes of memory storage remaining), the device automatically stops the recording and saves the data in the memory.



THE DEVICE RAN OUT OF BATTERY DURING A RECORDING

Recharge the device. The data recorded until the device runs out of battery is saved in the device's memory.

ONE OR MORE LEDs EXHIBIT INCONSISTENT BEHAVIOR

If the LED behavior on the NX01 command panel does not align with the instructions provided in this manual:

- Restart the device.
- If the inconsistent LED behavior happens again, attempt a device reset.

If the inconsistent LED behavior persists despite following these steps, this may indicate a device malfunction. Please consult your healthcare professional to check that the device is functional.

BUTTONS STOP RESPONDING

Attempt a device reset. If this does not resolve the issue, this may indicate a device malfunction. Please consult your healthcare professional to check that the device is functional.

INSTRUCTIONS FOR HEALTHCARE PROFESSIONALS

INITIAL INSPECTION UPON RECEPTION

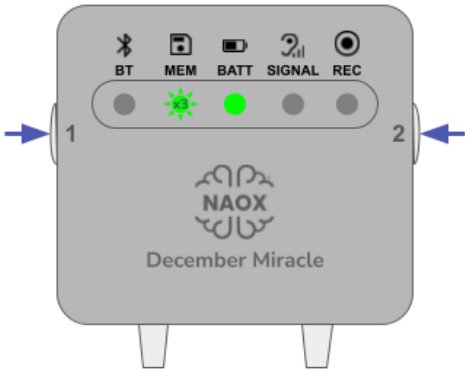
⚠ Upon reception of the package by the healthcare professional, please make sure to first check the physical integrity of the packaging. In the event that the packaging was damaged during transport from the manufacturer's site, do not use the device and return the package to the manufacturer.

1. Open the packaging and check that all the contents and accessories are included.
2. Visually inspect the device to check for any damage that could cause patient injury or affect the device's performance. If there is any damage to the device, return the package to the manufacturer.
3. If the device is intact, charge it to 100% battery.
4. Store the device until it is ready to be prescribed to a patient.

PATIENT APPOINTMENT PREPARATION

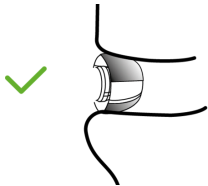
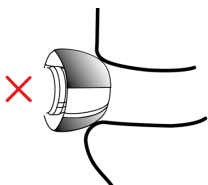
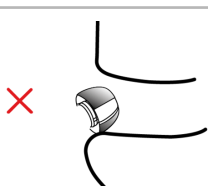
Once it has been determined that NX01 is suitable for a given patient and the device has been prescribed to them, the patient will be asked to come either for an acquisition at the healthcare facility, or for a training appointment so that they can perform recordings at home. In both cases, you are required to perform the following tasks prior to the appointment:

- Make sure that the device, the charger and the instructions manual are all in the original case.
- Visually inspect the NX01 device to check for any damage that could affect the device's performance.
- Turn on the device and ensure that it is charged for the training session: **BATT**  should be green.
- Ensure that the memory has been fully cleared of any data from a previous patient: **MEM**  must blink 3 times before turning steady green.
- Prepare three sets of eartips (one of each size) and bud covers to be used to determine the proper size for the patient.



DETERMINING THE PROPER EARTIP SIZE FOR A PATIENT

Together with the patient, determine the proper eartip size. The eartips are available in three sizes (small, medium, large). Selecting eartips of the proper size will ensure both the patient's comfort and good signal quality by providing good contact between the ear canal and the electrodes.

The eartips should be snug in the patient's ears, feel comfortable to them and fit well in their ear canal.	
Eartips that are too large may hurt the patient's ear canal, cause the eartips to be forced out of the ear canal or simply provide insufficient contact between the ear canal and the surface of the eartip, leading to signal quality issues.	
Eartips that are too small may fall from the patient's ear or simply move within the patient's ear canal, also leading to signal quality issues.	



Ensure that the earbuds remain in place and do not fall out of the patient's ears by asking them to do the following movements:

- turning their head to the left and right
- tilting their head forward, backward, to the left and to the right
- opening and closing the mouth

 If the NX01 earbuds or eartips are not compatible with the anatomical structure of a patient's ear canal, it is not recommended for the patient to use the NX01 device.

 If the patient wears glasses with metal legs or metal earrings/piercings, use this test to assess the quality of the data when such elements are present. You may have to require the patient to remove the glasses/piercings for every acquisition.

 Earrings/piercings should be removed before an acquisition, to avoid any entanglement of the cable in the earring/piercing.

 In-ear hearing aids should be removed before an acquisition.

ACQUISITION AT THE HEALTHCARE FACILITY

To perform a streaming acquisition at the healthcare facility:

1. Open the Download Station software, and select `Stream an EEG acquisition` in the Interface.
2. Turn on the device, activate Bluetooth and establish the pairing between the device and the computer used to perform the acquisition.
3. Set up the patient on a chair or on a bed as required for the acquisition. Make sure that the configuration allows for the device to remain within 5 m (15 ft) of the computer used for the acquisition.
4. Determine the proper size of eartips with the patient. You can use the EEG visualisation in the Download Station to assess the signal quality and the fit of the eartips.
5. Start and monitor the acquisition from the Download Station.
6. When you stop the acquisition, gently remove the device from the patient's ears. Gently remove the eartips from the earbuds and dispose of them.
7. Proceed to section "Device processing and storage after use" below.

 The HCP should assess patients for adverse reactions on the skin where the device has contact, such as redness (erythema), swelling (edema), irritation, sensitization (delayed Type IV hypersensitivity), allergy, immune response, or other reactions.

RECOMMENDATIONS FOR OPTIMAL SIGNAL QUALITY

EEG signals are very sensitive, low amplitude signals which can be affected by a number of external and biological signals, such as muscle movement, interference from surrounding devices, etc.

During an acquisition, the NX01 device performs a signal quality check every 15 minutes. If the signal quality is insufficient (**SIGNAL**  turns orange), this may be due to excessive movement or activity of the patient.

Whether you are performing a streaming acquisition on a patient in a clinical setting, or training the patient for autonomous recordings at home, specific attention needs to be paid to the following recommendations:

- The NX01 device should be used indoors in a quiet room, if possible with no interfering devices nearby.
- The NX01 device should be used with minimal movement/activity of the patient. At home, this includes resting periods (such as naps or sleep), or quiet activities that do not involve excessive movement (such as meditating, reading, listening to calm music or watching TV quietly). If needed, you may be more prescriptive regarding which activities are allowed or not during a recording.

 As much as possible avoid activities that can create signal distortions, which include (but are not limited to) eating, talking, walking, running, any sudden movement.

INITIAL TRAINING OF THE PATIENT FOR RECORDINGS AT HOME

When the patient arrives:

- Provide the patient with the NX01 case containing the device, its charger, and this instructions manual, as well as the three sets of eartips.
- The patient opens the case: as per the training you received from NAOX Technologies, provide explanations about the earbuds, eartips, command panel and operating functions of the device.
- Provide and demonstrate to the patient how to properly attach the eartips to the earbuds.
- Together with the patient, determine the proper eartip size by following the instructions of section Determining the proper eartip size for a patient above. Make the patient try on the earbuds themselves to familiarize themselves with the process and to check the fit of the eartips in their own ear canal.
- Once you have determined the proper eartips size together, provide the patient with an adequate number of eartips of the proper size for their prescribed recordings.
- Thoroughly review this instructions manual with the patient and conduct a test recording. The patient should follow your verbal and visual instructions but perform the tasks themselves. Provide guidance to ensure that the patient is able to perform an end-to-end recording without any intervention on your part.

The patient will perform recordings at home autonomously, without the direct supervision of a trained HCP. To ensure optimal data quality, you need to make sure that the patient understands and memorizes:

- How to properly align and plug the eartips onto the earbuds.
- The recommended settings, activities, frequency and duration of the recordings to be performed.
- The series of steps involved in a recording (summarized in the memo on the back of this manual).
- How to improve signal quality if **SIGNAL**  is orange (also summarized in the memo).
- If they are a caregiver, how to perform a recording on a child and how to safely store the device.

Plan your next appointment for data retrieval with the patient based on the frequency and duration of recordings that you prescribe. The device can hold up to 16 hours of recording data, which represents for example 2 nights of sleep (8 hours each) or 32 naps of 30 minutes each. If **MEM**  begins to blink orange before the planned appointment, the patient should come back early for data retrieval.

DEVICE RETRIEVAL AFTER THE PRESCRIPTION PERIOD

Once the prescription period is over, the patient should bring the NX01 device back to you along with all its accessories and any unused eartips.

- Make sure that the device, charger and instructions manual are returned in their original case, as well as any unused eartips in their original packaging.
- Download any data associated with this patient. Ensure that the memory has been fully emptied (**MEM**  must blink 3 times before turning steady green).
- Proceed to the section “Post-use steps” below.

 The HCP should inquire patients about adverse events during the use of the device, such as skin reactions (erythema, edema, irritation, sensitization,...) or other reactions.

POST-USE STEPS

After performing an acquisition in the healthcare facility, or when a patient returns the device to you at the end of the prescription period, you are required to perform the following tasks:

- Clean and disinfect the device and the case.
- Visually inspect the NX01 device for any damage that could cause patient injury or affect the device performance.
- Ensure that the memory contains no data (when you turn on the device, **MEM**  must blink 3 times before turning steady green).
- Fully recharge the device for storage.
- Carefully store the device in its primary casing until it is prescribed to another patient.

USE OF THE DOWNLOAD STATION BY HEALTHCARE PROFESSIONALS

The Download Station is the software companion to the NX01 device, which allows healthcare professionals to:

- Perform streaming acquisitions at the healthcare facility
- Retrieve the recordings performed at home by a patient for long term monitoring

OBTAINING AND INSTALLING THE DOWNLOAD STATION

The Download Station will be made available to you by NAOX Technologies before your initial training. For the installation to succeed, make sure that you have adequate administrative rights on the computer(s) where the Download Station is expected to be used. If required, contact your IT administrator.

If the Download Station must be installed on computers without Internet access, or if you later need to install the Download Station on additional computers, contact NAOX Technologies support (care@naox-technologies.com) to request detailed instructions and credentials to access a secure download page on the official NAOX website.

The computer must satisfy the following requirements:

- One free USB port (built-in or adapter hub)
- Bluetooth 5.3+ capability (built-in or dongle)
- Operating system: MacOS or Windows

To install the Download Station, simply unzip the file on your computer to access the executable file.

LAUNCHING THE DOWNLOAD STATION

Start the Download Station software through the main menu of your OS or by double-clicking on the DownloadStation shortcut on your desktop. The following screen opens.

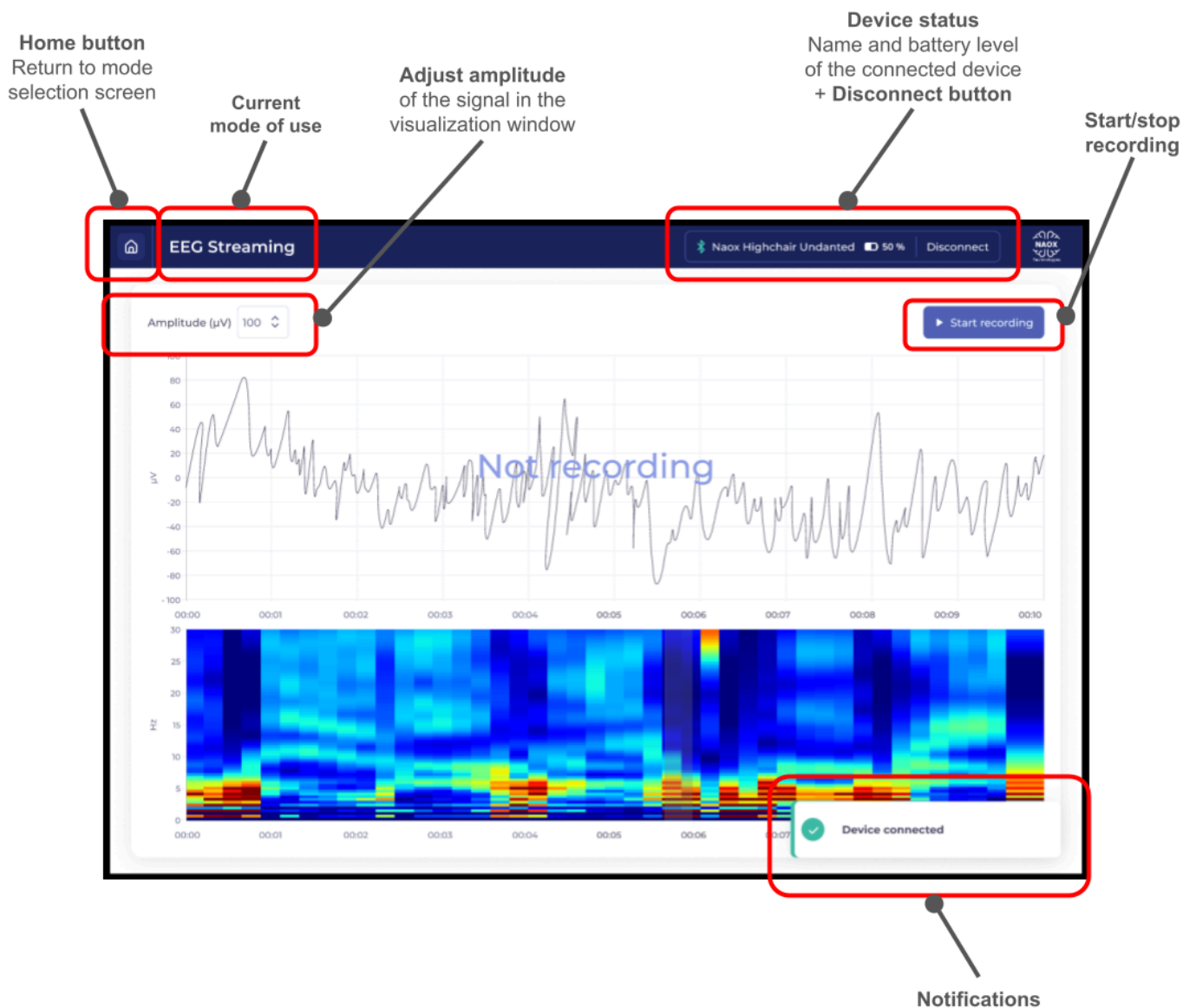


- To perform an acquisition on a patient in the healthcare facility, select `Stream an EEG acquisition` and follow the instructions of the “Streaming acquisition” section.
- To download the recordings performed by a patient at home, select `Retrieve EDF files from NX01 device` and follow the instructions of the “Downloading recordings from a NX01 device” section page YY.

STREAMING ACQUISITION

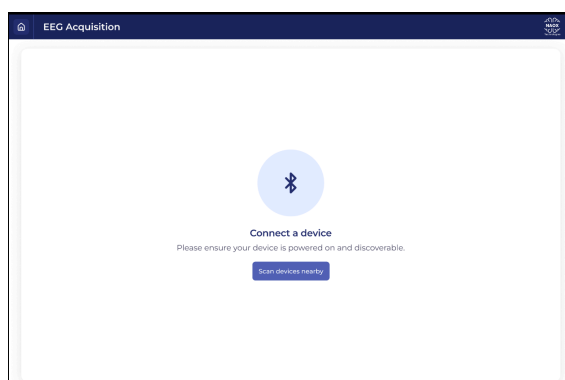
⚠ If the computer used for streaming is a laptop, make sure that it has enough battery/remains plugged to its charger for the duration of the acquisition. Deactivate the sleep mode. The computer must remain on for the entire acquisition. If it goes into sleep mode or turns off, the data acquired by streaming cannot be properly finalized into a correct EDF file.

Overview of the main screen



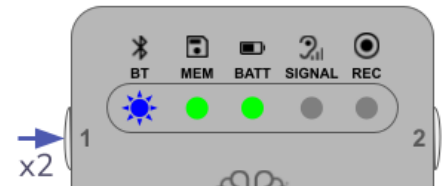
Connecting the device

After selecting Stream an EEG acquisition on the home page of the Download Station, the following page should be displayed.



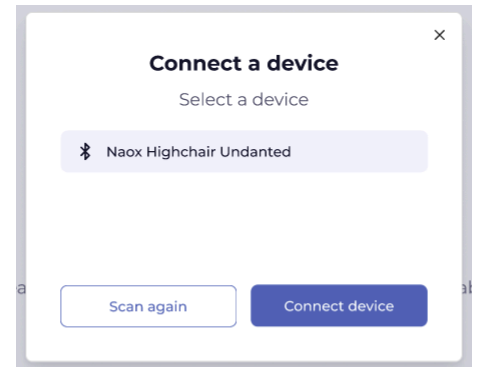
Set the NX01 device in pairing mode by double-clicking Button 1. When the device enters pairing mode, **BT** ✖ starts blinking. The pairing mode remains active for 120s.

⚠ To ensure patient data safety, only activate the Bluetooth function in controlled environments (hospital, clinic, physician's office). Do not use the Bluetooth function in public or crowded areas, where NX01 could be accessed by non authorized devices.



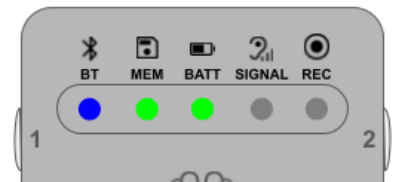
In the Download Station software, click on `Scan nearby devices`. A pop-up window opens and displays the list of available Bluetooth devices. Each NX01 device has a unique name (e.g. `NAOX Highchair Undanted`) that is printed on the command panel. If there are several NX01 devices in pairing mode at the same time, make sure to check the name on the device you want to connect to. If you do not see the device, click on scan again until it appears.

Click on the appropriate NX01 device, and confirm the pairing by clicking on the `Connect a device` button in the pop-up.



The software establishes a Bluetooth connection with the device. On the device, **BT** ✖ turns steady blue.

A successful pairing is confirmed by a notification in the Download Station, and you are taken to the main screen.

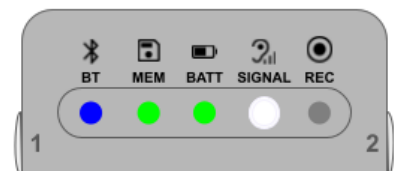


Performing an acquisition

Visually check the signal quality using the EEG and spectrogram charts displayed by the software. If the quality is satisfactory, click on `Start recording` to launch the acquisition.

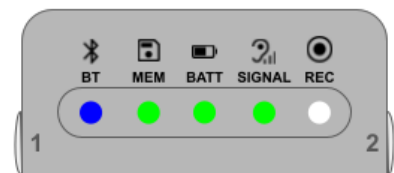
Note: A streaming acquisition can only be started through the Download Station. If Bluetooth is activated on the device, the double click function on the right button of the command panel is deactivated.

This launches an automatic signal quality check on the device. A message is displayed in the Download Station, and **SIGNAL** 2ii pulses white on the device during the assessment.

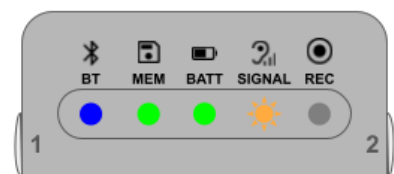


○ Signal quality check in progress.
Recording will start automatically if the signal quality is good.

If **SIGNAL** 2ii turns steady green, the signal quality is good and the actual recording starts automatically. A green checkmark is displayed at the bottom right corner of the Download Station. **REC** 2ii lights up white and begins pulsing, indicating that a recording is in progress.



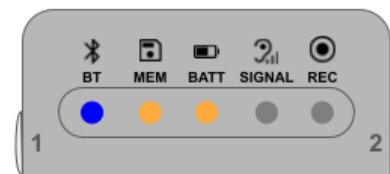
If **SIGNAL** 2ii blinks orange, the signal quality is not good enough, which prevents the recording from starting. This may be due to bad contact between the eartips and the ear canal: check the position of the eartips in the patient's ear canal, making sure that they are tight and do not move around, and try to start the recording again. If the recording still does not start, refer to section Troubleshooting steps for HCP below for more detailed steps.



Monitor the acquisition as needed, including the signal quality. In the Download Station, you can directly monitor the live signal in the visualization and spectrogram windows for anomalies or artefacts.

On the device, the signal quality is automatically checked every 15 minutes, and **SIGNAL** 📶 displays the result until the next check. If you or the patient notice that **SIGNAL** 📶 is blinking orange at some point during acquisition, please note that the acquisition does not stop: the position of the earbuds in the patient's ears needs to be checked, and another signal quality check can be performed by clicking on Button 1.

When you reach the scheduled acquisition duration, click on `Stop recording` in the Download Station. Confirm in the popup window. On the device, **REC** 🟢 turns off.

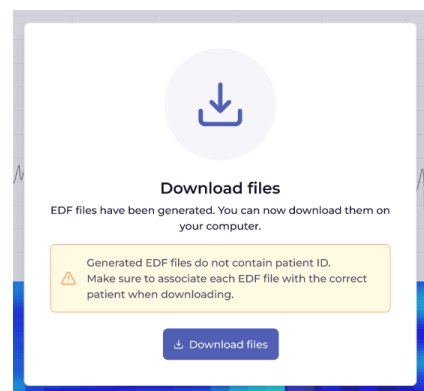


File generation and saving

The data obtained during the streaming acquisition is now processed to finalize the EDF file, which may take a few minutes (the exact duration is indicated in the Download Station).

Once the file is ready, click on `Save files`.

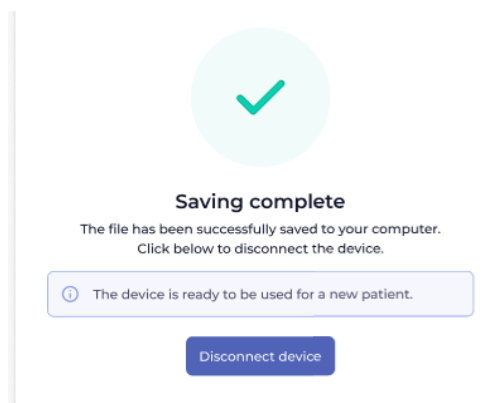
Select the appropriate directory to store the patient's data. Make sure to follow the recommendations outlined in section Patient data management best practices below. The writing process may take some time (the exact duration is indicated in the popup).



Device disconnection

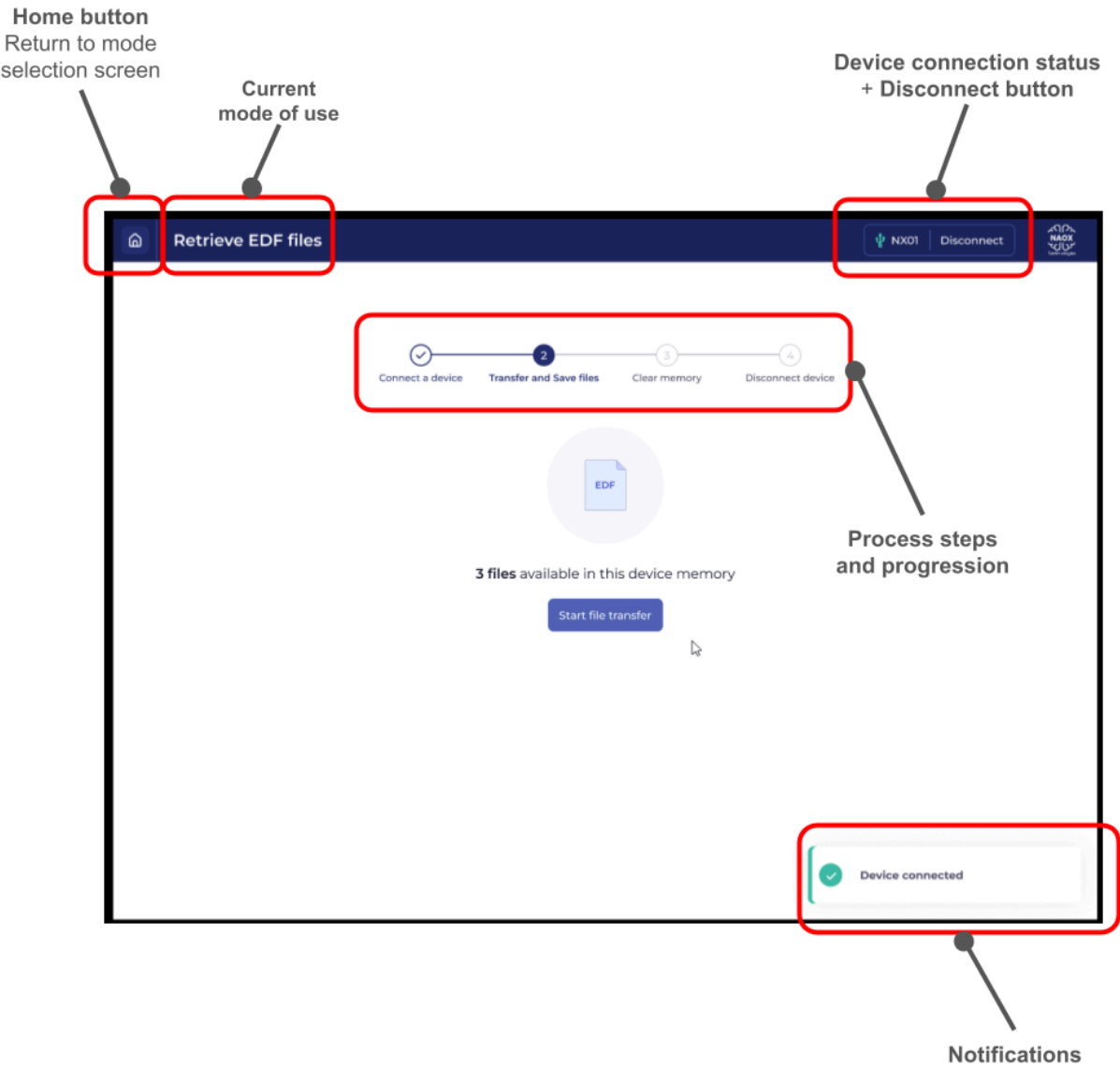
Once the files are saved, click on `Disconnect device` to terminate the Bluetooth connection and return to the home page of the Download Station.

Proceed with the final steps described in “Acquisition at the healthcare facility”.



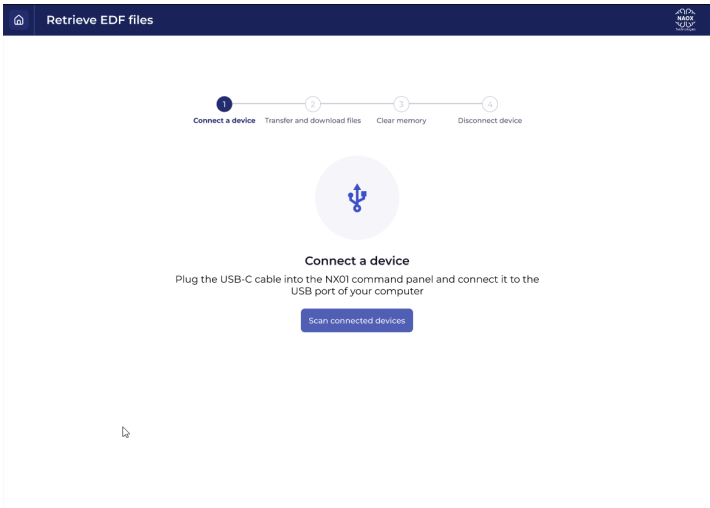
DOWNLOADING RECORDINGS FROM A NX01 DEVICE

Overview of the main screen



Connecting a device

After selecting Retrieve EDF files from NX01 device on the home page of the Download Station, the following page should be displayed.



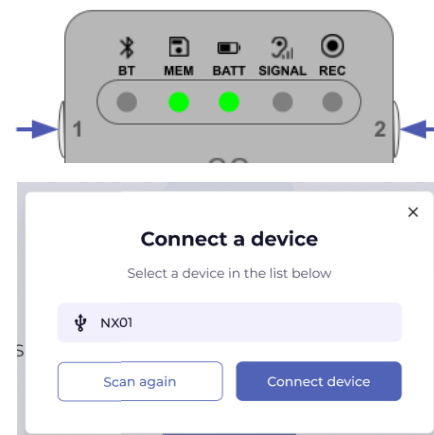
Turn on the NX01 device, and plug the device to your computer using the USB cable provided in the NX01 case.

Note: Make sure to only connect one device at a time.

In the Download Station software, click on `Scan connected devices`.

A pop-up window opens and displays the connected device as NX01. Click on the name of the device, then on `Connect a device` to confirm the connection.

A successful connection is confirmed by a notification in the Download Station, and you are taken to the main screen.

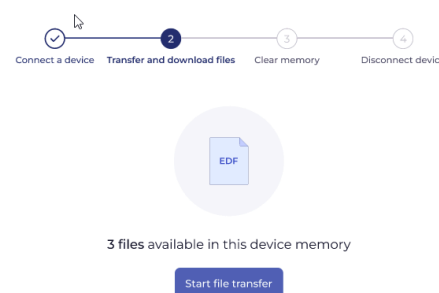


Transferring and saving the files

The Download Station reads the list of EDF files stored on the device. Click on `Start file transfer` to initiate the file transfer process.

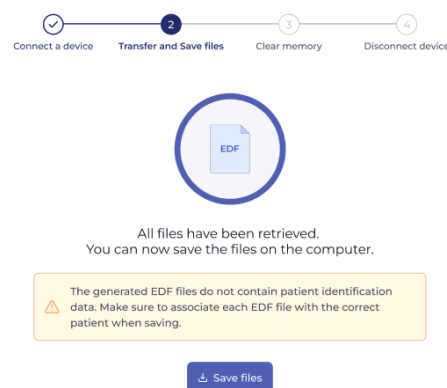
The file transfer process involves two stages:

1. First, the files stored on the device are retrieved from the device. This stage is required before you can effectively save the data on the computer. The duration of this process varies depending on the volume of data to be retrieved and your hardware configuration. The exact remaining time is displayed on the page.



Note: Do not disconnect the device during this data transfer. If you need to interrupt the transfer for any reason, click on `Cancel transfer` first to safely disconnect the device from the computer.

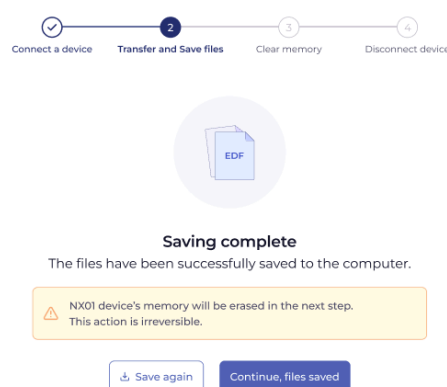
2. The second stage is the actual file writing on your computer. Click `Save files` to select the folder in which the files must be saved (in your patient file management structure, the folder corresponding to the patient that the device was prescribed for). Confirm the selection.



If the transfer is completed in full, a confirmation message is displayed by the software.

The next step in the process completely clears the memory of the NX01 device of any data. Before proceeding to this step, confirm that the downloaded files were saved in the intended folder. If this was not the case, click on `Save again`.

If the files were correctly downloaded into the appropriate folder, you can then select `Continue, files saved` to confirm that memory will be cleared of any data.

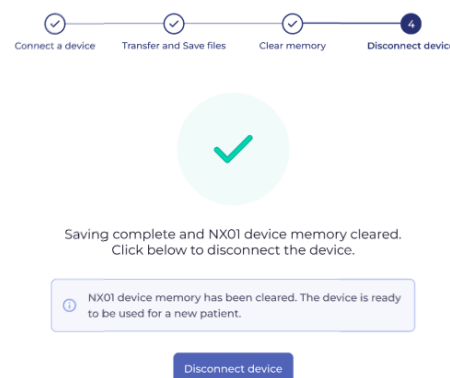


Memory cleanup

The last step of the process is the memory cleanup.

Once the memory has successfully been cleared, the Download Station displays a final confirmation message along with a green checkmark.

Note: Do not attempt to use the device with another patient unless you have reached this screen. If you do not see this screen, disconnect the device and attempt the download again from the start.



Device disconnection

Disconnect the device by clicking on `Disconnect device`, and confirm in the popup window. The software returns to the home page of the Download Station.

Unplug the cable from the device and the computer. Turn off the device, and proceed with the steps described in “Device processing and storage after use”.

PATIENT DATA MANAGEMENT BEST PRACTICES

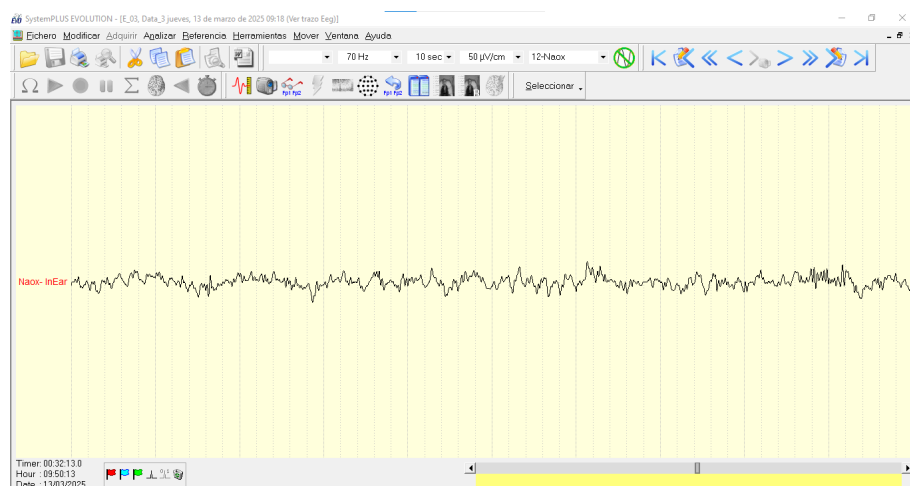
Note: The EDF files generated by the NX01 device do not contain any information that allows patient identification.

When you stream or download the data to your computer, please keep in mind that it is your responsibility to:

- Make sure that the files are associated with the proper patient and stored in the correct patient folder.
- Ensure the secure management of the files on the computer.

VIEWING AND ANNOTATING THE DATA

Once the data is saved on your computer, you can use any EDF-compatible viewer to open the files and review the patient's EEG data.



EDF file produced by NX01, viewed in SystemPLUS Evolution (Micromed)

TROUBLESHOOTING STEPS FOR HEALTHCARE PROFESSIONALS

THE DEVICE WILL NOT TURN ON

1. Make sure the device has been charged with the provided charger.
2. Attempt a device reset.
3. Make sure the charger is functional. When the NX01 device is plugged to the charger, **BATT**  should light up: the light pulses if the battery is charging, or is steady green if the battery is fully charged. If **BATT**  does not light up, the charger may be faulty. In that case, contact customer service (care@naox-technologies.com).



THE SIGNAL QUALITY REMAINS BAD DESPITE TROUBLESHOOTING

For patients doing recordings at home: make sure the patient is proficient in the troubleshooting steps described in Section §Troubleshooting steps for patients. If the patient repeatedly experiences poor signal quality despite performing all troubleshooting steps correctly, contact customer service (care@naox-technologies.com) to check that the device is functional.

For streaming acquisitions:

1. Make sure the patient's ears are clean. If needed, use a Q-tip to remove any earwax in the ear canal.
2. Check that the eartips are tight in the patient's ears and cannot move within the ear canal.
3. Remove the earbuds from the patient's ears, and check that the silver electrodes on the eartips and the gold connectors on the earbuds are correctly aligned.
4. If none of these solutions improves signal quality, change the eartips.
5. If changing the eartips does not improve signal quality, please contact customer service (care@naox-technologies.com) to check that the device is functional.

ONE OR MORE LEDs EXHIBIT INCONSISTENT BEHAVIOR

If **MEM**  blinks orange despite the memory being empty (verified through the Download Station), this indicates a memory failure. Contact customer service at care@naox-technologies.com to arrange for the device to be replaced.

If any other LED behavior on the NX01 command panel repeatedly does not align with the instructions provided in this manual, despite following all steps correctly, this may indicate a device malfunction. Attempt a device reset. If the inconsistent LED behavior persists, contact customer service at care@naox-technologies.com to arrange for the device to be tested and replaced if necessary.

BUTTONS STOP RESPONDING

Attempt a device reset. If this does not resolve the issue, this may indicate a device malfunction. Contact customer service at care@naox-technologies.com to arrange for the device to be tested and replaced if necessary.

STREAMING ACQUISITION - THE DOWNLOAD STATION CANNOT CONNECT TO THE DEVICE

Make sure that:

1. Bluetooth is activated on the computer running the Download Station.
2. The NX01 device is turned on, and it is in Bluetooth pairing mode (**BT**  should be blinking blue).
3. You trigger the connection in the Download Station while the pairing mode is active: once triggered on the device, the pairing mode remains active for 120s.

STREAMING ACQUISITION - THE BLUETOOTH CONNECTION IS LOST DURING AN ACQUISITION

If the Bluetooth connection is lost during a streaming acquisition:

- No data is displayed in the EEG and spectrogram windows until the connection is restored.
- No data is acquired during the interruption.

- The Download Station displays a series of popup windows to help you restore the connection:
 - Check that Bluetooth is still active on the computer used for the acquisition.
 - Make sure that the NX01 device is turned on, and check its Bluetooth status. If **BT** ✕ is turned off, set the device in pairing mode again and attempt to reconnect the device.
 - If multiple attempts fail, save the data that has been collected until the disconnect event. Contact customer service (care@naox-technologies.com) to check that the device is functional.

STREAMING ACQUISITION - THE SOFTWARE CRASHES

Restart the software and the acquisition process from the beginning. No data is saved, so the acquisition needs to be performed again in its entirety.

STREAMING ACQUISITION - THE DEVICE RUNS OUT OF BATTERY

The Download Station interface displays the device battery status in the upper right corner:

If the battery level drops below 7%, a notification is displayed in the bottom right corner of the screen.

If the battery level drops below 2%, a popup window displays a warning message and the Download Station automatically initiates a graceful shutdown of the acquisition to avoid any data loss: the recording is stopped, the EDF file is generated and the device turns off.

STREAMING ACQUISITION - FAILED TO GENERATE EDF FILE / SAVE THE FILE

Make sure that there is enough space on your hard drive to write the acquired data.

DATA RETRIEVAL - NO DEVICE FOUND

1. Make sure that the device is powered on.
2. Make sure to only connect one device at a time.
3. Check the cable using another NX01 device.

DATA RETRIEVAL - THE SOFTWARE CRASHES DURING A TRANSFER

Restart the software and the data retrieval procedure.

The data stored on the device is not affected if the software crashes during a transfer. The data is only deleted after confirmation that the files have been successfully saved on the local computer.

DATA RETRIEVAL - THE DEVICE IS DISCONNECTED BEFORE COMPLETION OF THE TRANSFER

1. Make sure that the device is powered on.
2. Make sure to use the USB cable provided with the NX01 device, and check that it is in good condition.
3. Check the cable connections to the computer and the NX01 device.

After two failed attempts, you are redirected to the home screen.

1. Check the cable with another device.
2. Check the device with another cable.

If either one is faulty, contact customer service at care@naox-technologies.com to arrange for tests and replacement of the faulty equipment.

DATA RETRIEVAL - THE TRANSFER FAILED

Make sure that there is enough space on your hard drive to write the transferred data.

DATA RETRIEVAL - THE MEMORY CLEARING FAILED

If the clearing operation fails multiple times, make sure to not use the device with another patient until the issue is resolved. Contact customer service at care@naox-technologies.com to arrange for the device to be tested and replaced if necessary.

THE SOFTWARE DOES NOT OPEN, CRASHES REPEATEDLY OR CAUSES THE COMPUTER TO CRASH

Contact customer service (care@naox-technologies.com) for assistance.

DEVICE MAINTENANCE

WARRANTY

 Do not alter or open any component of NX01 (hardware or software). Any modification is strictly prohibited and will void the system's warranty.

EARTIPS REPLACEMENT

Good contact between the eartips and the skin is essential for the quality of the measurement. It is important to note that the provided eartips are for single-use only. Therefore, they should be discarded and replaced for every recording that takes place. To purchase extra eartips, contact NAOX Technologies (see §Manufacturer).

 To ensure that the signal quality remains optimal over time, the cumulated use of a pair of eartips should not exceed 24h.

CLEANING AND DISINFECTION

If the NX01 device is dusty, please make sure to clean them with a soft, dry, lint-free cloth.

For disinfection of the device (external casing of the command panel and cables) and its case, 70% isopropyl alcohol may be used in the form of medical-grade alcohol wipes or sprayed on a clean tissue paper.

- Make sure that the device is unplugged before applying any alcohol on its surface.
- Pay particular attention to the device's buttons, the grooves in the casing and the screws on the back of the casing.
- To ensure effective disinfection, the alcohol needs to remain in contact with the surface of the device parts for at least **30 seconds**.
- Allow the alcohol to air dry before handling the device or storing it.
- After drying, visually inspect the device to ensure that no trace of soil remains on the surface.

Do not use any cleaning agent to clean the eartips. The eartips contain the electrodes, which will be damaged if they come into contact with any cleaning agent, including alcohol.

 Do not perform cleaning or disinfection while the NX01 device is operating. Make sure that the device is turned off to perform those activities.

 Do not use the NX01 device on a patient without first cleaning it according to the instructions.

 Do not clean the NX01 device parts with agents other than 70% isopropyl alcohol.

 Do not clean the silicone eartips with any cleaning agent, which can damage the electrodes.

ENVIRONMENTAL PARAMETERS

Conditions for operation:

Temperature	+5°C to +40°C (+41°F to +104°F)
Relative humidity	15% to 90% non-condensing
Atmospheric pressure	700 hPa to 1060 hPa

Conditions for storage/transportation:

Temperature	-25°C to +70°C (-13°F to +158°F)
Relative humidity	0% to 90% non-condensing humidity. Avoid humid places which can damage the electronic components and discharge the battery.

To ensure proper storage of the NX01 device, carefully wrap the cable to avoid knots and damage to the internal wires. Make sure to always store the device and its accessories in its primary packaging.

When using the NX01 device after storage at the minimum or maximum storage temperature, make sure to wait 30 minutes for the device to reach room temperature before using it.

DEVICE TESTING

The NX01 device does not require regular testing or calibration over the course of its lifetime.

Before each recording, the device automatically performs a signal quality check (result displayed on **SIGNAL** ⓘ) which can be used to check the device's function. If a user repeatedly obtains poor signal quality despite performing all troubleshooting steps correctly, the HCP should contact customer service (care@naox-technologies.com) for further testing.

RECYCLING

At the end of its lifetime, the device should be recycled following local regulations and must not be thrown away with regular household waste. This includes recycling the single-use eartips according to local rules on polymer materials.

The device, except for its internal battery, doesn't contain hazardous materials and can be recycled like standard electronic equipment. You can take it to approved collection points or recycling centers in your area. Alternatively, it can be returned to the manufacturer for proper disposal as Waste Electrical and Electronic Equipment (WEEE). The battery should be disposed of at a designated disposal station or returned to NAOX Technologies at the address provided in the instructions or on the device, as required by national laws.

CYBERSECURITY INFORMATION

To ensure the secure and effective use of the NX01 device, users must pay particular attention to the following points:

- Patients should return their device to their physician in person.
- For streaming acquisitions, the HCP must ensure that:
 - Bluetooth is activated only in secure environments (e.g., clinics, hospitals).
 - The correct device is paired on the practitioner's computer before data transfer.
- The computer used for streaming/download is up to date with the current OS.
- To download recordings performed at home by the patient, the HCP must use the USB-C cable provided with the NX01 device.
- Any suspected cybersecurity incident must be reported to care@naox-technologies.com.
- For software updates, make sure to follow NAOX Technologies' instructions provided via secure email.

NAOX Technologies will notify registered customers of:

- Cybersecurity vulnerabilities via secure email.
- Availability of a new software version via email campaigns.
- End-of-support via email campaigns.

For more information regarding cybersecurity, please refer to the Customer Security Documentation and Manufacturer Disclosure Statement for Security documents available in the registered customers space on the NAOX website.

TECHNICAL SPECIFICATIONS

Characteristics	Value
Classification	• Protection against electric shocks: power supply class II, eartips are type BF applied parts • Protection against harmful ingress of water or particulate matter: IP22 (protected against solid objects over 12.5 mm, and protected against dripping water when tilted up to 15 degrees from its normal position) • Sterility: non sterile • Not suitable for use in an oxygen-rich environment • Mode of operation: continuous
Essential performance	• Accuracy of amplitude and rate of variation: EEG signals are reproduced with an error $\leq \pm 20\%$ • Input dynamic range and differential offset voltage ± 150 mV • Input noise: ≤ 6 μV • Frequency range and bandwidth: ± 2 dB in 0.5 - 50 Hz • Common mode rejection ratio: ≥ 89 dB When the essential performance is not achieved, the device indicates that the data are invalid.
Battery lifetime	3.7V, 330mAh Battery level will remain up to 80% of initial capacity for 2 years
Expected lifetime of the device	2 years
Bluetooth	• Frequency Range: 2400 MHz to 2483.5 MHz • Modulation Type: Gaussian Frequency Shift Keying (GFSK) • Frequency Hopping: Yes, using frequency hopping spread spectrum (FHSS) • Compliant with EN 55032 (2015 + A11/2020) • Effective radiated power: 1.6 mW (2 dBm)

EMC TABLES

The NX01 device was tested according to the recommendations of IEC 60601-1-2: Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests and IEC TR 60601-4-2: Medical electrical equipment – Part 4-2: Guidance and interpretation – Electromagnetic immunity: performance of medical electrical equipment and medical electrical systems. The NX01 device should withstand electromagnetic disturbances and recover from transient disturbances in less than 30s. In the unlikely event of an EMC phenomenon affecting the product in a way where it would not recover by itself, simply reboot the device by turning it off and on.

Emission test	Test level
Conducted and radiated RF emission (CISPR 11)	Group 1, Class B
Harmonic distortion (IEC 61000-3-2)	Class B
Voltage fluctuation and flicker (IEC 61000-3-3)	240 VAC

Immunity phenomenon	Immunity level
Electrostatic discharge (IEC 61000-4-2)	+/- 4 kV, +/- 8 kV contact +/- 2 kV, +/- 4 kV, +/- 8 kV, +/- 15 kV air
Radiated RF EM fields (IEC 61000-4-3)	3 V/m and 10 V/m, 80 MHz - 2.7 GHz, 80% AM at 1 kHz
Power frequency magnetic field (IEC 61000-4-8)	3 A/m and 30 A/m, 50 or 60 Hz
Electrical fast transient (IEC 61000-4-4)	+/- 0.5 kV DC input, +/- 1 kV AC input +/- 2 kV, 100 kHz repetition frequency
Surges (IEC 61000-4-5)	+/- 0.5 kV, +/- 1 kV line to line +/- 0.5 kV, +/- 1 kV, +/- 2 kV line to ground
Conducted disturbances induced by RF fields (IEC 61000-4-6)	3 V, 0.15 MHz - 80 MHz, 80% AM at 1 kHz 6 V in ISM and radio bands
Voltage dips (IEC 61000-4-11)	0% U _T , 0.5 cycles at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% U _T , 1 cycle and 70% U _T , 25-30 cycles
Voltage interruptions (IEC 61000-4-11)	0% U _T , 250/300 cycles

Immunity to RF wireless communications		
Service	Characteristics	Immunity level
• TETRA 400	380 - 390 MHz, pulse modulation 18 Hz	27 V/m
• GMRS 460, • FRS 460	430 - 470 MHz, FM +/- 5 kHz deviation 1 kHz sine	28 V/m
• LTE band 13, 17	704 - 787 MHz, pulse modulation 217 Hz	9 V/m
• GSM 800/900, • TETRA 800, • iDEN 820, • CDMA 850, • LTE band 5	800 - 960 MHz, pulse modulation 18 Hz	28 V/m
• GSM 1800 • CDMA 1900 • GSM 1900 • DECT • LTE bands 1, 3, 4, 25 • UMTS	1.7 - 1.99 GHz, pulse modulation 217 Hz	28 V/m
• Bluetooth • WLAN 802.11 b/g/n • LTE band 7	2.4 - 2.57 GHz, pulse modulation 217 Hz	28 V/m
• WLAN 802.11 a/n	5.1 - 5.8 GHz, pulse modulation 217 Hz	9 V/m

Immunity to proximity magnetic fields		
Frequency	Modulation	Immunity level
30 kHz	CW	8 A/m
134.2 kHz	Pulse modulation 2.1 kHz	65 A/m
13.56 MHz	Pulse modulation 50 kHz	7.5 A/m

Immunity to proximity electric fields		
Frequency	Modulation	Immunity level
385 MHz	Pulse modulation 18 Hz	6 V/m
450 MHz	Pulse modulation 18 Hz	9 V/m
710 MHz, 745 MHz & 780 MHz	Pulse modulation 217 Hz	3 V/m
810 MHz, 870 MHz, 930 MHz	Pulse modulation 18 Hz	9 V/m
1.72 GHz, 1.845 GHz, 1.97 GHz, 2.45 GHz	Pulse modulation 217 Hz	9 V/m
5.24 GHz, 5.50 GHz, 5.785 GHz	Pulse modulation 217 Hz	6 V/m

REGULATORY INFORMATION

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

FCC CAUTION

Any change or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

Further RF exposure reduction can be achieved if the product is kept as far as possible from the user body.

SPECIFIC ABSORPTION RATE (SAR)

The Specific Absorption Rate (SAR) quantifies the user's exposure to electromagnetic waves from the equipment in question. The maximum permitted SAR is 2 W/kg for the head and torso and 4 W/kg for the limbs. SAR tests are conducted in standard usage positions indicated by the European Union Council at the highest certified power of the device and across all frequency bands.

Quick reference - EEG recording



Reminder: Read this instructions manual carefully and entirely before using the product.



MEMORY



> 8 hrs of recording
1 to 8 hrs of recording
< 1 hr of recording: existing data must be downloaded



BATTERY



> 10 hrs of recording
1 to 10 hrs of recording
< 1 hr of recording: recharge
charging



SIGNAL



Analysis in progress
Good signal quality
Bad signal quality



RECORDING



Recording in progress
File saving in progress

Improving signal quality

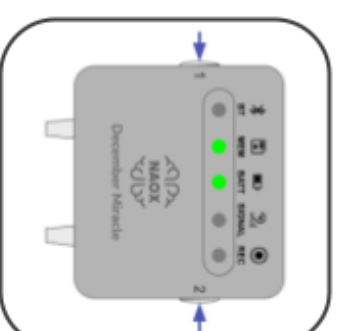
1. Avoid talking and moving during analysis.
2. Reposition the buds in your ears.
3. Check the alignment of ear tips and connectors.
4. Change the ear tips.
5. Consult your HCP.



.1

Prepare the recording

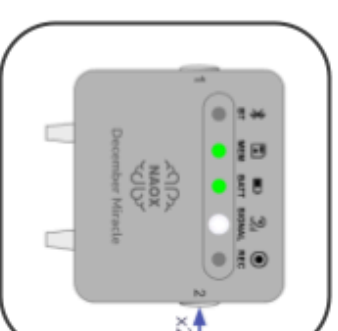
- Clean your ears
- Insert ear tips on the buds: check proper alignment



.2

Turn on the device

- Long press both buttons
- ✓ MEM turns on
- ✓ BATT turns on



.3

Start the recording

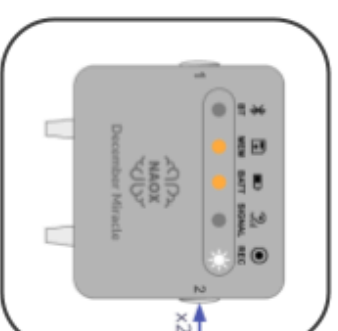
- Double click Button 2: SIG pulses white during analysis, then:
 - ✓ Green: recording starts
 - X Blinks orange: improve signal quality



.4

During the recording

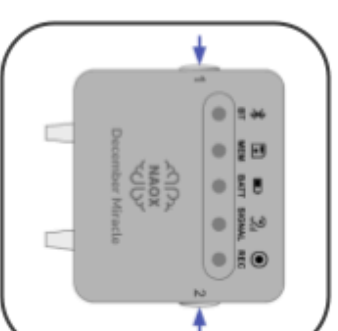
- ✓ REC is steady white: recording in progress
- Regularly check the status of MEM BATT and SIG



.5

Stop the recording

- Double click Button 2
- ✓ REC blinks white while file is saved to memory: wait until REC turns off



.6

Turn off the device

- Long press both buttons
- Remove the ear tips
- Recharge for next use

Audit trail

Details

FILE NAME PRD-NX01-IFU_Instructions for use_V6

STATUS ● Signed

STATUS TIMESTAMP 2026/02/03
08:22:19 UTC

Activity


SENT

stephane@naox-technologies.com **sent** a signature request to:

- Sandrine Burriel (sandrine@naox-technologies.com)
- stephane mazet (stephane@naox.tech)
- Alexandre Naprix (alexandre@naox-technologies.com)

2026/02/02
17:31:45 UTC


SIGNED

Signed by Alexandre Naprix (alexandre@naox-technologies.com)

2026/02/03
07:19:34 UTC


SIGNED

Signed by stephane mazet (stephane@naox.tech)

2026/02/02
17:35:39 UTC


SIGNED

Signed by Sandrine Burriel (sandrine@naox-technologies.com)

2026/02/03
08:22:19 UTC


COMPLETED

This document has been signed by all signers and is **complete**

2026/02/03
08:22:19 UTC

The email address indicated above for each signer may be associated with a Google account, and may either be the primary email address or secondary email address associated with that account.