

TD Navio

User's Manual

Mini
Midi
Maxi



tobiidynavox

User's Manual TD Navio

Version 1.2

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Device Identifiers for TD Navio:

- Mini: 7340074602032
- Midi: 7340074602056
- Maxi: 7340074602070



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1 Introduction

Thank you for purchasing a TD Navio from Tobii Dynavox!

To ensure the optimal performance of this product, please take the time to read this manual carefully.

The TD Navio device is a Tobii Dynavox Speech Generating Device (SGD) intended for use as an augmentative communication aid for those with speech, language, physical, and cognitive disabilities.

1.1 Explanation of Admonitions

In this manual we use five (5) levels of admonitions as follows:



The Note symbol is used for notifying the user of something important or of something that needs special attention.



The Caution symbol is used to inform of something that could cause harm to, or malfunction of, the equipment.



The Warning symbol is used to inform of something in which there is a conceivable risk of harm to the user if the Warning is ignored.



The High Volume symbol is used to inform of something that can cause damage to hearing.






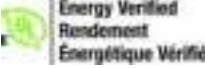









The High Temperature symbol is used to inform of surface temperature conditions that may cause injury or discomfort.

1.2 Symbols and Markings

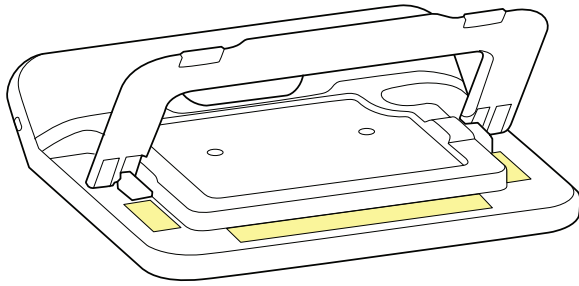
This section provides information about the symbols that are used on the TD Navio, its accessories, or packaging.

Symbol or Markings	Description
	Safety Class II double insulated equipment.
	Dispose of in accordance with your country's requirements.
	CE is the abbreviation of the European Communities and this mark tells customs officials in the European Union that the product complies with one or more of the EC Directives.
	The UKCA (UK Conformity Assessed) marking is a UK product marking that is used for goods being placed on the market in Great Britain (England, Wales and Scotland). It covers most goods which previously required the CE marking.
	This mark is a certification mark employed on electronic products manufactured or sold in the United States which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.
	Australian Electrical Equipment Safety System Regulatory Compliance Mark.
	Mark indicating a power supply meets the level V requirements at both 115 V/60 Hz and 230 V/ 50 Hz, if designed to operate at multiple input voltages. Products with a nameplate marked for only one voltage and frequency should also use this mark assuming the product meets the performance requirements; in other words, manufacturers do not have to indicate the voltage with the mark.

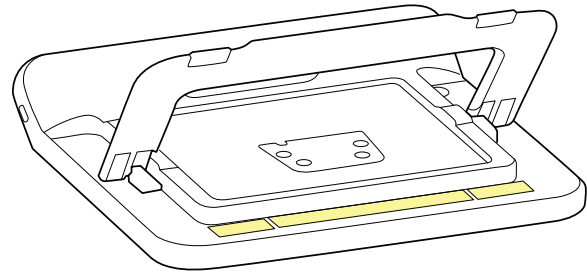
Symbol or Markings	Description
	Japanese certification for electrical/electronic appliances and components.
	China Compulsory Certificate.
	China RoHS compliance.
	Fulfills relevant and applicable safety requirements for the US and Canada.
	Indoor use only.
	The UL Energy Verified Certification Mark for Canada.
	The most recognized International Safety mark.
	Follow Instructions for Use
	DC Power connector
	Reduction of Hazardous Substances directive compliant.
	Conforms to relevant Japanese EMC requirements
+	Volume Up
-	Volume Down
IP42	Enclosure ingress protection code per IEC 60529.
	Manufacturer
	Medical Device Marking

1.3 Product Label

The product labels for the TD Navio are located under the Foldable Leg on the back of the device, see *Product Label*, page 7.



TD Navio Mini



TD Navio Midi and TD Navio Maxi

Lift the Foldable Leg to access the product label.

1.4 Intended Use

The TD Navio is intended primarily as a speech generating device. The TD Navio is intended to provide, and act as, a complement for everyday communication for people who have challenges in their ability to speak due to injury, disability or illness.



Contraindication: The TD Navio device should never be, for the user, the only means of communicating important information.

In case of failure of the TD Navio device, the user cannot communicate using it.



Intended use is primarily an indoor environment.

1.4.1 Intended User Profile

The Primary Users of the TD Navio are those individuals who, due to physical, language, and/or cognitive conditions, require an AAC device for Speech. It is appropriate for users of all ages.

1.4.2 Portable Use

A portable TD Navio can be hand-held used, and in two (2) different positions:

- Standing
- Resting

Through the built-in stand, the TD Navio can be used standing on a flat surface. By collapsing the stand, the device can also be used in a resting position, either resting on a surface or handheld. By utilizing the included carry strap, the device can also be carried around the user's neck. Both positions allow for touch input, scanning or other alternative input methods.

1.4.3 Mounted Use

The TD Navio can be mounted on several mounting systems.

- ConnectIT
- REHAdapt
- Daessy
- IDEAS

1.5 Package Contents



It is recommended to keep the original packaging materials for the TD Navio.

If the device needs to be returned to Tobii Dynavox for warranty-related issues or repair, it is beneficial that the original packaging or equivalent is used for shipping. Most shipping carriers require at least 2 inches of packing material around the device.

Note: Due to Joint Commission regulations, any shipping materials (including boxes) sent to Tobii Dynavox must be discarded.

The items below are included in the TD Navio package:

- TD Navio Device
- TD Navio Protective Case
- TD Navio Shoulder Strap
- Carry Case
- Carry Case Shoulder Strap
- Charger with USB-C Cable
- TD Snap® (Pre-installed)
- TD Talk (Pre-installed)
- Screwdriver
- Safety and Compliance Document
- Getting Started Guide

2 Safety

The TD Navio device has been tested and approved as compliant to all the Specifications and Standards listed in *Appendix B Compliance Information, page 25* of this manual and in the *Appendix D Technical Specifications, page 30*. Nevertheless, in order to ensure safe operation of your TD Navio, there are a few safety warnings to bear in mind:



No modification of this equipment is allowed.



Repairs to a Tobii Dynavox device must only be performed by Tobii Dynavox or a Tobii Dynavox authorized and approved repair center.



Contraindication: The TD Navio device should never be, for the user, the only means of communicating important information.

In case of failure of the TD Navio device, the user cannot communicate using it.



The TD Navio is water resistant, IP42. However, you should not submerge the device in water or in any other liquid.



The user may never attempt to change the battery. Altering of the battery may cause risk of explosion.



The TD Navio is not to be used as a life supporting device, and it shall not be relied on in case of loss of function due to power loss or other causes.



There could be a choking hazard risk if small parts detach from the TD Navio device.



The strap and charging cable could present strangulation hazards to young children. Never leave small children unattended with the strap or charging cable.



The TD Navio device shall not be exposed to or used in rain or weather conditions outside the Technical Specification of the TD Navio device.



Young children or people with cognitive disabilities should not have access to, or use, the TD Navio device, with or without carry strap or other accessories, without parental or guardian supervision.



The TD Navio device shall be used with care when moving around.

2.1 Avoiding Hearing Damage



Permanent hearing loss may occur if earphones, headphones or speakers are used at high volume. To prevent this, the volume should be set to a safe level. You can become desensitized over time to high sound levels which may then sound acceptable yet still could damage your hearing. If you experience symptoms such as ringing in your ears, please lower the volume or stop using the earphones/headphones. The louder the volume, the less time is required before your hearing could be affected.

Hearing experts suggest the following measures to protect your hearing:

- Limit the amount of time you use earphones or headphones at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you cannot hear people speaking near you.

To establish a safe volume level:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.



The TD Navio device can produce sounds in decibel ranges that may cause hearing loss for a normal hearing person, even when exposed to for less than a minute. The maximum sound level of the unit is in parity with the sound levels that a healthy young person can produce while screaming. Since the TD Navio device is intended as a voice prosthetic, it shares the same possibilities and potential risks of causing harm to hearing. The higher decibel ranges are offered to enable communication in a noisy environment and should be used with care and only when needed in noisy environments.

2.2 Power Supply and Batteries



The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with rated voltage which conforms to Limited Power Source requirement according to IEC62368-1.



The TD Navio device contains a rechargeable battery. All rechargeable batteries degrade over time. Thus the possible usage times for the TD Navio after a full charge can become shorter over time than when the device was new.



The TD Navio device uses a Li-ion Polymer battery.

If you are in a hot environment, be aware that it can affect the ability to charge the battery. The internal temperature has to be between 0 °C/32 °F and 45 °C/113 °F for the battery to charge. If the internal battery temperature raises above 45 °C/113 °F, the battery will not charge.

If this occurs, move the TD Navio device to a cooler environment to let the battery charge properly.



Avoid exposing the TD Navio device to fire or to temperatures above 60 °C/140 °F. These conditions may cause the battery to malfunction, generate heat, ignite or explode. Be aware that it is possible, in a worst case scenario, for temperatures to reach greater than those stated above, for example, the trunk of a car on a hot day. So, storing the TD Navio device, in a hot car trunk could conceivably lead to a malfunction.



Do not connect any devices with a non-medical grade power supply to any connector on the TD Navio device. Furthermore, all configurations shall comply with the system standard IEC 60601-1. Anyone who connects additional equipment to the signal input part or signal output part is configuring a medical system and is therefore responsible for ensuring that the system complies with the requirements of the system standard IEC 60601-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60601-1 certified equipment out-side of the patient environment. If in doubt, consult the technical services department or your local representative.



The appliance coupler of the power supply or separable plug is used as the Mains Disconnection Device, please do not position the TD Navio device so that it is difficult to operate the disconnection device.



Only charge the TD Navio battery in an ambient temperature of 0°C to 35°C (32°F to 95°F).



Use only the supplied power adapter to charge the TD Navio device. Using unauthorized power adapters may severely damage the TD Navio device.



For safe operation of the TD Navio device, use only the charger and accessories approved by Tobii Dynavox.



The batteries are only to be changed by Tobii Dynavox personnel or specified designees. Replacement of lithium batteries or fuel cells by inadequately trained personnel could result in a hazardous situation.







Do not open, or modify, the casing of the TD Navio device or the power supply, since you may be exposed to potentially hazardous electrical voltage. The device contains no serviceable parts. If the TD Navio device or its accessories are mechanically damaged, **do not use them**.




If the battery is not charged or the TD Navio is not connected to the power supply, the TD Navio device will shut down.




If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.

-  If the Power Supply Cord is damaged, it needs to be replaced by Service Personnel only. Do not use the Power Supply Cord until replaced.
-  Disconnect the AC power plug of the Power adapter from the wall socket when not charging the device and disconnect the power cable from the device.
-  Special regulations apply to shipping Lithium-ion batteries. If dropped, crushed, punctured, thrown, abused or short-circuited, these batteries can release dangerous amounts of heat and may ignite, and are dangerous in fires. Please reference IATA regulations when shipping lithium metal or lithium-ion batteries or cells: <http://www.iata.org/whatwedo/cargo/dgr/Pages/lithium-batteries.aspx>
-  The Power adapter shall not be used without an adult or caregiver supervision.


2.3 High Temperature

-  If used in direct sunshine or in any other hot environment, the TD Navio device may have hot surfaces. The TD Navio devices have built-in protections to prevent overheating. If the interior temperature of the TD Navio device exceeds the normal operating range, the TD Navio device will protect its internal components by attempting to regulate its temperature. If the TD Navio device exceeds a certain temperature threshold, it will present a temperature warning screen. To resume use of the TD Navio device as quickly as possible, turn it off, move it to a cooler environment (away from direct sunlight), and allow it to cool down.


2.4 Emergency

-  Do not rely on the device for emergency calls or banking transactions. We recommend having multiple ways to communicate in emergency situations. Banking transactions should only be carried out with a system recommended by, and approved according to the standards of your bank.


2.5 Electricity

-  Do not open the casing of the TD Navio device, since you may be exposed to potentially hazardous electrical voltage. The device contains no user serviceable parts.

2.6 Child Safety

-  The TD Navio devices are advanced computer systems and electronic devices. As such they are composed of numerous separate, assembled parts. In the hands of a child certain of these parts, including accessories, have the possibility of being separated from the device, possibly constituting a choking hazard or another danger to the child. Young children should not have access to, or the use of, the device without parental or guardian supervision.

2.7 Magnetic Field

-  If you suspect that the TD Navio device is interfering with your pacemaker or any other medical device, stop using the TD Navio device and consult your physician for specific information about that affected medical device.

2.8 Third Party



Tobii Dynavox assumes no responsibility for any consequence resulting from use of the TD Navio in a manner inconsistent with its intended use, including any use of the TD Navio with third-party software and/or hardware that changes the intended use.

3 Initial Setup of TD Navio

3.1 Step 1: Hardware Setup

3.1.1 Power

- Connect one end of the USB-C cable to the power supply.
- Connect the other end of the USB-C cable to your TD Navio device.
- Plug the power supply into an outlet.

TD Navio will start up automatically.

3.1.2 iPadOS Setup

Follow the on-screen iPadOS setup prompts. In order to receive the Tobii Dynavox software included with your purchase, you will need to make the following selections:

1. Select your language, region, and appearance preferences.
2. On the Quick Start screen select **Set Up Without Another Device** or **Set Up Manually**.
3. If offered as an option, set up your written and spoken languages to suit your preferences.
4. Join a Wi-Fi network, then select **Next**.
5. If prompted to transfer your apps and data, select **Don't Transfer Anything**.
6. On the Remote Management screen select **Enroll this iPad** or **Next**.



Do NOT select Remove iPad from Organization. If this option is selected, you will not receive your communication apps and the device will have to be sent back to Tobii Dynavox to resolve the issue.



Remote management, also known as MDM, allows Tobii Dynavox to send software and software updates to your iPad over Wi-Fi. Through remote management Tobii Dynavox will only have access to information about your iPad hardware specifications, OS version, installed apps, and security settings. Tobii Dynavox will not be able to access your personal files, photos, cameras, microphones, or location data.

7. If prompted to setup Face ID, feel free to skip it now and set it up later in Settings
8. Setting up a Passcode is optional. If you skip it now you can set it up later in Settings.



If you set up a passcode, ensure that the user will not forget it. It is highly recommended to store the passcode somewhere secure such as a password manager on a second device in case you need to look it up. If you forget your passcode and get locked out, your TD Navio will have to be returned to Tobii Dynavox to be reset.

9. If prompted for an Apple ID, enter the Apple ID for the user, not a caregiver. If you want to skip entering an Apple ID for now, select **Forgot password or don't have an Apple ID?** then **Set Up Later in Settings**. If you selected Medium or Large appearance, swipe to see **Forgot password or don't have an Apple ID?**
10. **Agree** to the Apple Terms and Conditions.
11. Answer the remaining setup prompts based on your personal preferences. When you have completed the iPadOS setup prompts, you will see the Home screen containing your app icons.

3.1.3 Settings




A popup message will appear at some point asking if you are connecting a pair of headphones. **Select Other Device**.





1. Select **Settings**.
2. On the left, select **Face ID & Passcode** or **Touch ID & Passcode**.
3. Enter your passcode if you have already set one up, otherwise, select **Add a Passcode**.

4. Swipe to the bottom and turn on **Accessories**.
This will allow your TD Navio and accessories such as switches to remain connected.
5. Swipe up from the bottom of the screen to close Settings.

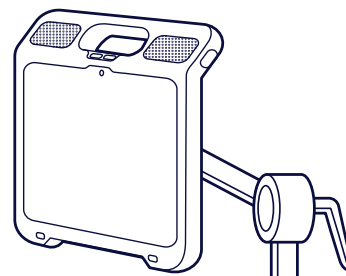
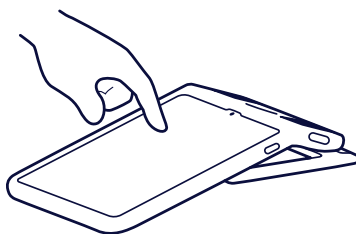
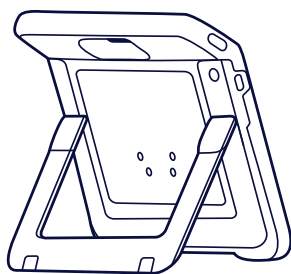
 Touch ID is **not** available on the TD Navio. Face ID is **only** available on the TD Navio Maxi.

3.2 Step 2: Choose and Set Up Your Communication App

1. Use the table below to identify the communication app that best suits the user.
2. Launch your chosen app and follow the prompts to create a new user or restore an existing user.

	 TD Snap®	 TD Talk
Description	TD Snap® is a speech generating app for those who need symbol support.	TD Talk is a speech generating app for people who are literate and do not need supporting symbols.
Composing messages	Messages are composed using word and phrase buttons with supporting symbols. An on-screen keyboard with word prediction is also available.	Messages are composed using an on-screen keyboard with word and phrase prediction, similar to SMS texting.
Literacy level	Emergent through advanced	Advanced
Ages	All ages	Teen to adult
Whiteboard	Yes	No
Self-regulation supports	Yes	No

3.3 Step 3: Mount and position



Start by situating the user comfortably, then find the device position that gives them clear screen visibility and easy access to their selection method of choice. The device may be positioned using a mounting system, laying it flat on a surface, or propped on the foldable leg. Always position the device to suit the user, not the other way around. It is expected that the device may need to be repositioned throughout the day.

Optional: Attach shoulder strap. Instructions are on the shoulder strap tag.

4 Overview of the TD Navio

4.1 Key Features

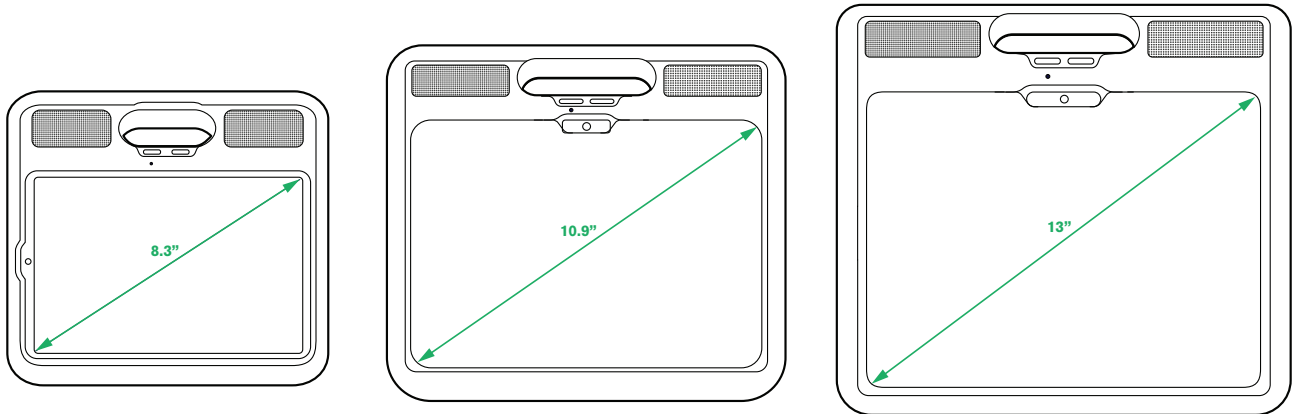
The TD Navio has several built-in features.

- 2 × Internal speakers
- 2 × 3.5 mm switch ports
- 1 × USB-C Charging port
- 1 × Microphone
- 1 × Audio jack

4.2 Product Layout

4.2.1 Mini, Midi and Maxi

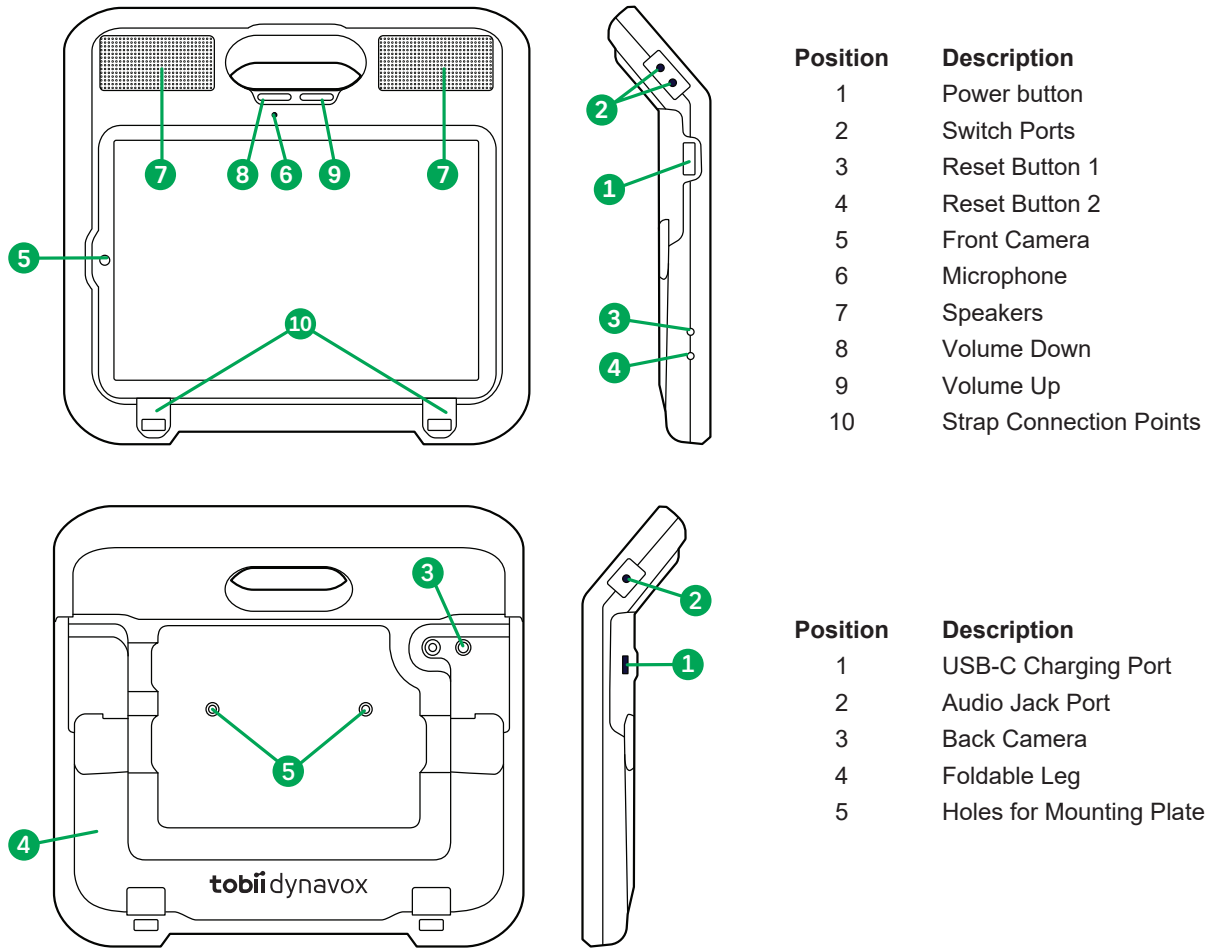
The TD Navio device comes in three (3) different models. The Mini has a 8.3" screen with a 2266 x 1488 pixel resolution, the Midi has a 11" screen with a 2360 x 1640 pixel resolution and the Maxi has a 13" screen with a 2752 x 2064 pixel resolution.



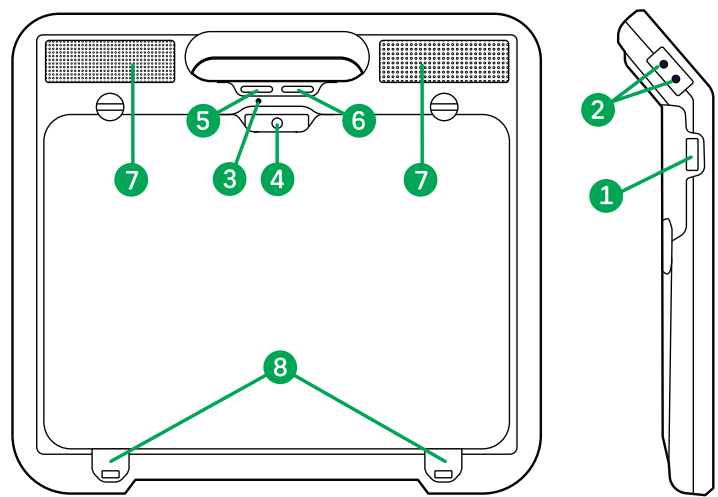
4.2.2 Ports, Sensors, and Device Buttons

 The graphics in this section shows the TD Navio with the Protective Case on the device.

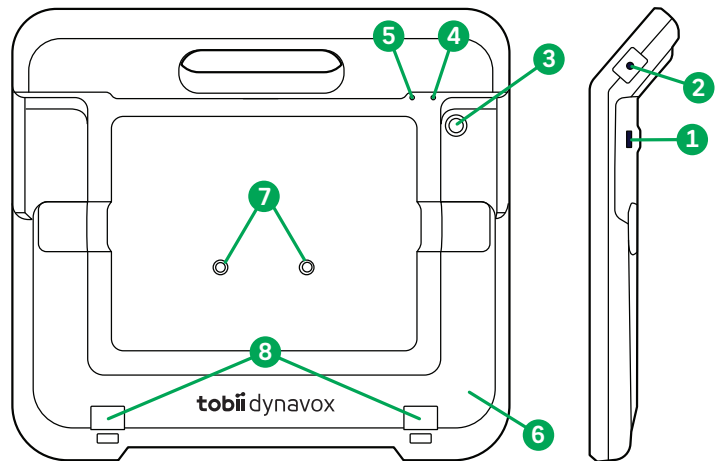
4.2.2.1 TD Navio Mini



4.2.2.2 TD Navio Midi

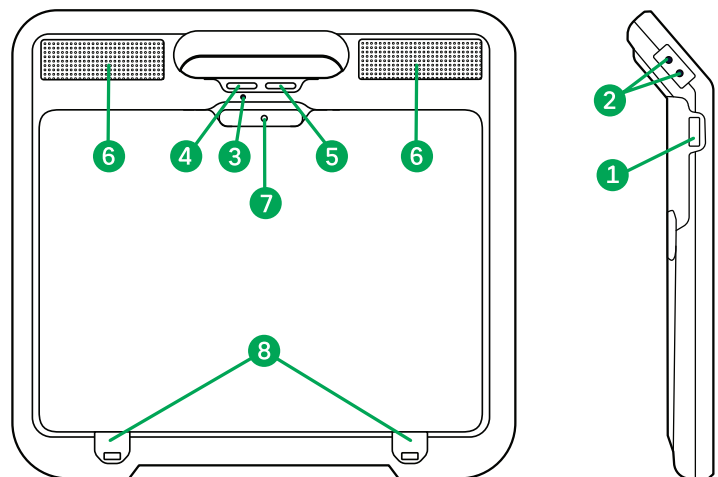


Position	Description
1	Power button
2	Switch Ports
3	Microphone
4	Front Camera
5	Volume Down
6	Volume Up
7	Speakers
8	Strap Connection Points

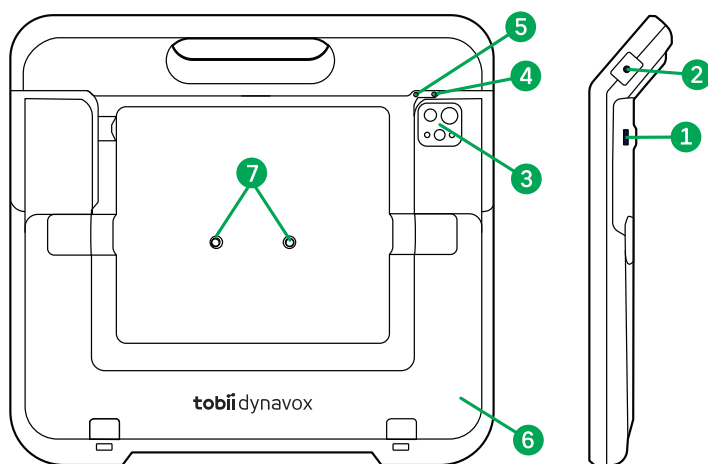


Position	Description
1	USB-C Charging Port
2	Audio Jack Port
3	Back Camera
4	Reset Button 1
5	Reset Button 2
6	Foldable Leg
7	Holes for Mounting Plate

4.2.2.3 TD Navio Maxi



Position	Description
1	Power button
2	Switch Ports
3	Microphone
4	Volume Down
5	Volume Up
6	Speakers
7	Front Camera
8	Strap Connection Points



Position	Description
1	USB-C Charging Port
2	Audio Jack Port
3	Back Camera
4	Reset Button 1
5	Reset Button 2
6	Foldable Leg
7	Holes for Mounting Plate

4.3 Pre-installed Software and Firmware

The TD Navio device is delivered with all pre-ordered and required software and firmware installed and ready to use. Should a reinstallation become necessary at any stage, perform a factory reset using the iPadOS built in factory restore options.

i If you don't have your communication apps on the TD Navio device it might be due to removing the iPad from Organization during initial setup. If this happens, contact Tobii Dynavox Support.

i Remote management, also known as MDM, allows Tobii Dynavox to send software and software updates to your iPad over Wi-Fi. Through remote management Tobii Dynavox will only have access to information about your iPad hardware specifications, OS version, installed apps, and security settings. Tobii Dynavox will not be able to access your personal files, photos, cameras, microphones, or location data.

5 Batteries in TD Navio

5.1 Batteries

The TD Navio has two (2) built-in batteries. These batteries can both be charged using the provided USB-C Power Adapter. If the TD Navio batteries are not charged sufficiently, the TD Navio will shut down automatically.

5.2 Charging the TD Navio

1. Connect one end of the USB-C cable to the power supply.
2. Connect the other end of the USB-C cable to your TD Navio device.
3. Plug the power supply into an outlet.
4. Charge the TD Navio until the battery is fully charged.
5. After the TD Navio is fully charged, disconnect the power supply from both the device and the outlet.



You **can't** overcharge the batteries. It is fine to charge the batteries overnight.

You **can** use the TD Navio while the batteries are charging.



Because of internal chemical reactions, battery performance may deteriorate over time. In addition, failure to keep the conditions of use (charge, discharge, ambient temperature, etc.) within specified ranges may shorten the battery life expectancy, or damage your TD Navio device. If the battery cannot maintain a charge for long periods of time, even when it is charged correctly, it may need to be replaced.

The battery may need to be replaced every 12 to 18 months with typical use. Don't try to replace the battery yourself. The battery is internal and is not intended for service or replacement by the user or anyone other than a Tobii Dynavox technician.

For battery storage and charging temperatures, see *7.2.2 Transportation and Storage, page 22*.

6 Using the TD Navio

6.1 Starting the TD Navio

To start the TD Navio press the Power button, see *4.2.2 Ports, Sensors, and Device Buttons, page 16* for reference.



The TD Navio is designed to remain powered on.

6.2 Powering Down the TD Navio

To power down the TD Navio follow these steps:

1. Hold down the Power button and one of the volume buttons (either one doesn't matter) at the same time, see *4.2.2 Ports, Sensors, and Device Buttons, page 16* for reference.
The shutdown slider will appear on the TD Navio screen.
2. Shut down the TD Navio by using the shutdown slider.

6.3 Attaching the Shoulder Strap

1. Ensure the protective case is on the TD Navio.
2. Place the TD Navio on a table.
3. Take the TD Navio Device Shoulder Strap and detach both buckles from the main strap.
The detached part of the Shoulder Strap will have a Buckle End and a Looped End.
4. Take one of the detached straps and feed the Loop-end through the hole on the bottom-left side of the Protective Case.
5. Pass the Buckle-end through the loop and pull tight to secure the strap to the strap point.
6. Take the other detached strap and feed the Loop-end through the hole on the bottom-right side of the Protective Case.
7. Pass the Buckle-end through the loop and pull tight to secure the strap to the strap point.
8. Attach both buckles to the main strap.

6.4 Removing the TD Navio from the Protective Case



It is highly recommended you use the TD Navio device with the protective case to provide additional protection for the TD Navio.

1. Place the TD Navio with the face down on a flat surface.
2. Use the enclosed screwdriver to loosen the screws. The two bottom screws are captive and will not detach from the Protective Case.
3. Lift up the foldable leg.
4. Separate the TD Navio front plate and body by pulling the two pieces apart.
5. Remove the TD Navio device.

6.5 Inserting the TD Navio into the Protective Case



Do not over-tighten the screws.



1. Separate the Protective Case front plate and body by pulling the two pieces apart.
2. Place the TD Navio on a flat surface with the screen facing down.
3. Lift up the Foldable Leg to a 90° angle.
4. Slide the back of the Protective case on to the TD Navio.
5. Close the Foldable Leg to secure the back of the Protective Case in place.

6. Flip the TD Navio 180° over with the screen facing up.
7. Align the hooks on the top of the front piece of the Protective Case with the top of the TD Navio.
8. Squeeze around the edges to click it together.
9. Place the TD Navio with the face down on a flat surface.
10. Use the enclosed screw driver to tighten all four screws.

6.6 Battery Status and Power Saving

Monitor the battery status for the TD Navio in the top right corner of the iPadOS device home screen.

6.7 Adjusting the Volume

To adjust the volume, use the Volume Up and Down buttons on the top of the TD Navio, see *4.2.2 Ports, Sensors, and Device Buttons, page 16* for reference.



Volume adjustments can also be done in TD Snap®, TD Talk, or iPadOS software on the TD Navio.

6.8 Force Restart of TD Navio

To do a forced restart of TD Navio follow these steps:

1. Press and quickly release the **Reset 1** button.
2. Press the quickly release the **Reset 2** button.
3. Press and hold the **Power** button.
4. When the Apple logotype appears on the screen, release the **Power** button .



See *4.2.2 Ports, Sensors, and Device Buttons, page 16* for reference.

6.9 iPadOS

For information about how to use the iPadOS on the TD Navio, please go to:

Language	Link
English	https://support.apple.com/guide/ipad/welcome/ipados
German	https://support.apple.com/de-de/guide/ipad/welcome/ipados
French	https://support.apple.com/fr-fr/guide/ipad/welcome/ipados
Spanish	https://support.apple.com/es-mx/guide/ipad/welcome/ipados
Dutch	https://support.apple.com/nl-nl/guide/ipad/welcome/ipados
Swedish	https://support.apple.com/sv-se/guide/ipad/welcome/ipados
Norwegian	https://support.apple.com/no-no/guide/ipad/welcome/ipados
Danish	https://support.apple.com/da-dk/guide/ipad/welcome/ipados
Simplified Chinese	https://support.apple.com/zh-cn/guide/ipad/welcome/ipados
Japanese	https://support.apple.com/ja-jp/guide/ipad/welcome/ipados
Italian	https://support.apple.com/it-it/guide/ipad/welcome/ipados

7 Product Care

7.1 Expected Service Life

The expected service life of the TD Navio and power adapter is 5 years.

7.2 Temperature & Humidity

7.2.1 General Use - Operating Temperature

The TD Navio is best kept in dry conditions at room temperature. The recommended range for temperature and the humidity value for the device is as follows:

- Ambient temperature: 0°C to 35°C (32°F to 95°F)
- Humidity: 10% ~ 90% (no condensation on the device)
- Atmospheric Pressure: 70 kPa to 106 kPa (525 mmHg to 795 mmHg)

7.2.2 Transportation and Storage

For transportation and storage the recommended range for temperature and the humidity value for the device is as follows:

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 5% to 90% @40°C (104°F)(no condensation on the device)
- Atmospheric Pressure: 70 kPa to 106 kPa (375 mmHg to 795 mmHg)



The TD Navio is not waterproof. The device should not be kept in excessively humid, damp or otherwise wet conditions. Do not submerge the device in water or in any other liquid. Be careful not to allow liquids to be spilled upon the device, especially in the connector areas.

7.2.3 Charging

For charging, the recommended range for temperature and the humidity value for the device is as follows:

- Temperature: 0°C to 35°C (32°F to 95°F)
- Relative humidity: 5% to 90% (no condensation on the device)

7.3 Cleaning

Before cleaning the TD Navio device, shut it down and unplug all cables. Use a soft, slightly damp lint-free cloth. Avoid getting moisture in openings on the device. Don't use window cleaners, household cleaners, aerosol sprays, solvents, alcohol, ammonia, bug spray, or abrasives to clean the device. It can void the warranty.

7.3.1 Cleaning of the Speakers

If the openings for the speakers are clogged, carefully use cotton sticks and/or a toothbrush to avoid damaging the TD Navio speakers.



Do not use any sprays on the speakers. This could void the warranty.

7.4 Placement

Only use the recommended mounts specified by your local reseller or sales representative and make sure that they are mounted and fastened correctly according to the instructions. Do not place the device on unstable and uneven surfaces.

7.5 Transporting the Device

Disconnect all the cables from the TD Navio while carrying the device.

When you transport the device for repair, shipment, or traveling, use the original casing and packaging materials.



It is recommended to keep the original packaging materials for the TD Navio.

If the device needs to be returned to Tobii Dynavox for warranty-related issues or repair, it is beneficial that the original packaging or equivalent is used for shipping. Most shipping carriers require at least 2 inches of packing material around the device.

Note: Due to Joint Commission regulations, any shipping materials (including boxes) sent to Tobii Dynavox must be discarded.

7.6 Disposing of the Device

Do not dispose of the TD Navio device in general household or office waste. Follow your local regulations for the disposal of electrical and electronic equipment.

Appendix A Support, Warranty, Training Resources

A1 Customer Support

For support, please contact your local representative or Support at Tobii Dynavox. In order to receive assistance as quickly as possible, make sure you have access to your TD Navio device and, if possible, an Internet connection. You should also be able to supply the serial number of the device, which you will find on the back of the device under the leg.

For further product information and other support resources, please visit the Tobii Dynavox website www.tobiidynavox.com.

A2 Warranty

Please read the warranty located here: <https://www.tobiidynavox.com/pages/warranties>.



Tobii Dynavox does not warrant that the Software on the TD Navio will meet your requirements, that the operation of the software will be uninterrupted or error-free, or that all software errors will be corrected.



Tobii Dynavox does not warrant that the TD Navio will meet Customer requirements, that the operation of the TD Navio will be uninterrupted, or that the TD Navio is free from bugs or other defects. Customer acknowledges that the TD Navio will not function for all individuals and in all light conditions.



Please read this User's Manual carefully before using the device. The warranty is only valid if the device is used according to the User's Manual. Opening/disassembling the TD Navio device will void the warranty.



It is recommended to keep the original packaging materials for the TD Navio.

If the device needs to be returned to Tobii Dynavox for warranty-related issues or repair, it is beneficial that the original packaging or equivalent is used for shipping. Most shipping carriers require at least 2 inches of packing material around the device.

Note: Due to Joint Commission regulations, any shipping materials (including boxes) sent to Tobii Dynavox must be discarded.

A3 Training Resources



No specific training is required for the safe and effective use of the primary operating functions of the TD Navio.

Tobii Dynavox offers a range of training resources for the TD Navio products and related communication products. You can find them on the Tobii Dynavox website, www.tobiidynavox.com, including Getting Started Guides, and extensive training materials. The TD Navio Getting Started Guide is delivered with and stored on the device. The training cards are stored on the TD Navio device.

Appendix B Compliance Information



The TD Navio is CE-marked, indicating compliance with the essential health and safety requirements set out in European Directives.

B1 FCC 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.



Modifications not expressly approved by Tobii Dynavox could void the user's authority to operate the equipment under FCC rules.

B1.1 For Part 15B Equipment

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.

B1.2 For Portable Devices

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device was tested for typical hand held operations with the device contacted directly to the human body to the sides of the device. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting.

B2 CE Statement

This equipment complies with the requirements relating to electromagnetic compatibility, the essential protection requirement of Electromagnetic Compatibility (EMC) Directive 2014/30/EU on the approximation of the laws of the Member States relating to electromagnetic compatibility and Radio Equipment Directive (RED) 2014/53/EU to meet the regulation of the radio equipment and telecommunications terminal equipment.

B3 Directives and Standards

The TD Navio complies with the following directives:

- Medical Device Regulation (MDR) (EU) 2017/745
- Electronic Safety IEC 62368-1
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- Radio Equipment Directive (RED) 2014/53/EU
- RoHS3 Directive (EU) 2015/863
- WEEE Directive 2012/19/EU
- Reach Directive 2006/121/EC, 1907/2006/EC Annex 17

- Battery Safety IEC 62133 and IATA UN 38.3

The device has been tested to comply with IEC/EN 60601-1 Ed 3.2, EN ISO 14971:2019 and other relevant standards for the intended markets.

This device meets the necessary FCC requirements in accordance with CFR Title 47, Chapter 1, Subchapter A, Part 15 and Part 18.

Appendix C Guidance and Manufacturer's Declaration

Below cables information are provided for EMC reference

Cable	Max. cable length	Shielded/unshielded	Number	Cable classification
AC Power Cord	0.9 m	Unshielded	1 Set	AC Power
DC Power Line (USB Cable)	1.6 m	Shielded	1 Set	DC Power

Important information regarding Electro Magnetic Compatibility (EMC)

This electrical medical equipment needs special precautions regarding EMC and put into service according to the EMC information provided in the user manual; The equipment conforms to this IEC 60601-1-2:2014+A1:2020 standard for both immunity and emissions. Nevertheless, special precautions need to be observed:

- The equipment with no ESSENTIAL PERFORMANCE is intended used in Home healthcare environment.
- **WARNING:** 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”.
- The 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.
- **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 the TD Navio, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.”
- **WARNING:** If the use location is near (e.g. less than 1.5 km from) AM, FM or TV broadcast antennas, before using this equipment, it should be observed to verify that it is operating normally to assure that the equipment remains safe with regard to electromagnetic disturbances throughout the expected service life.
- **STATEMENT:** For the purpose of its operation, the equipment has wireless communication function, it includes RF transmitter and receiver, 2.4 GHz, Pulse modulation.
- **WARNING:** Multimedia equipment used in this ME System should comply with CISPR 32.
- **STATEMENT:** The equipment is a large, permanently installed system. According to chapter 8.6 of IEC 60601-1-2:2014, the test was only performed at some discrete frequencies.
 - a) An exemption has been used and that the equipment has not been tested for radiated RF immunity over the entire frequency range 80 MHz to 6 000 MHz;
 - b) **WARNING:** This equipment has been tested for radiated RF immunity only at selected frequencies, and use nearby of emitters at other frequencies could result in improper operation”; and
 - c) Following frequencies and modulations are used to test the immunity of the equipment.

Selected Frequency (MHz)	Emitter	Frequency Range	Modulation
103.7	Radio	Business radio band	FM
433.92	Remote controller	ISM frequency	FM
446	Walkie-talkie	Walkie-talkie	FM
915	Mobile phone	GSM900	Pulse
2400	Wireless router	WIFI	Pulse
5000	Wireless router	WIFI	Pulse

- **STATEMENT:** The equipment is designed compatible with high frequency surgical equipment; the condition includes working or standby in close proximity to high frequency surgical equipment.

Table 1: EMI Compliance Table — Emission

Phenomenon	Compliance	Electromagnetic environment
RF emissions	CISPR 11 Group 1, Class B	Home healthcare environment
Harmonic distortion	IEC 61000-3-2 Class A	Home healthcare environment
Voltage fluctuations and flicker	IEC 61000-3-3 Compliance	Home healthcare environment

Table 2: EMS Compliance Table — Enclosure Port

Phenomenon	Basic EMC standard	Immunity test levels
		Home healthcare environment
Electrostatic Discharge	IEC 61000-4-2	±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air
Radiated RF EM field	IEC 61000-4-3	10 V/m 80MHz-2.7GHz 80% AM at 1kHz
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	Refer to table <i>Table 3: EMS Compliance Table — Proximity fields from RF wireless communications equipment, page 28.</i>
Rated power frequency magnetic fields	IEC 61000-4-8	30A/m 50Hz or 60Hz
Proximity magnetic fields	IEC 61000-4-39	Refer to table <i>Table 4: EMS Compliance Table — Proximity magnetic fields, page 28.</i>

Table 3: EMS Compliance Table — Proximity fields from RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Immunity test levels
		Home healthcare environment
385	380-390	Pulse modulation 18Hz, 27V/m
450	430-470	FM, ±5kHz deviation, 1kHz sine, 28V/m
710	704-787	Pulse modulation 217Hz, 9V/m
745		
780		
810		
870	800-960	Pulse modulation 18Hz, 28V/m
930		
1720		
1845	1700-1990	Pulse modulation 217Hz, 28V/m
1970		
2450		
5240	5100-5800	Pulse modulation 217Hz, 9V/m
5500		
5785		

Table 4: EMS Compliance Table — Proximity magnetic fields

Frequencies	Test Level [A/m]	Modulation
30 kHz	8	CW
134,2 kHz	65	Pulse modulation 2,1 kHz

Frequencies	Test Level [A/m]	Modulation
13,56 MHz	7.5	Pulse modulation 50 kHz

Table 5: EMS Compliance Table — Input a.c. power Port

Phenomenon	Basic EMC standard	Immunity test levels
		Home healthcare environment
Electrical fast transients/burst	IEC 61000-4-4	±2 kV 100 kHz repetition frequency
Surges Line-to-line	IEC 61000-4-5	±0.5 kV, ±1 kV
Conducted disturbances induced by RF fields	IEC 61000-4-6	3V, 0.15 MHz - 80 MHz 6 V in ISM bands and amateur radio bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz
Voltage dips	IEC 61000-4-11	0% U_T ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°
		0% U_T ; 1 cycle and 70% U_T ; 25/30 cycles Single phase: at 0°
Voltage interruptions	IEC 61000-4-11	0% U_T ; 250/300 cycles

Table 6: EMS Compliance Table — Signal input/output parts Port

Phenomenon	Basic EMC standard	Immunity test levels
		Home healthcare environment
Electrical fast transients/burst	IEC 61000-4-4	±1 kV 100kHz repetition frequency
Conducted disturbances induced by RF fields	IEC 61000-4-6	3V, 0.15 MHz - 80 MHz 6 V in ISM bands and amateur radio bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz

Appendix D Technical Specifications

D1 TD Navio

Model	Mini	Midi	Maxi
Type	Touch Communication Device		
CPU	A15 Bionic chip (6-core CPU)	A16 Bionic chip (5-core CPU)	Apple M4 chip (10-core CPU)
Storage	256 GB	256 GB	256 GB
Screen Size	8.3"	11"	13"
Screen Resolution	2266 x 1488	2360 x 1640	2752 x 2064
Dimensions (WxHxD)	210 x 195 x 25 mm 8.27 × 7.68 × 0.98 inches	265 x 230 x 25 mm 10.43 × 9.06 × 0.98 inches	295 x 270 x 25 mm 11.61 × 10.63 x 0.98 inches
Weight	0.86 kg 1.9 lbs	1.27 kg 2.8 lbs	1.54 kg 3.4 lbs
Microphone	1×Microphone		
Speakers	2 × 31 mm × 9 mm, 4.0 ohms, 5 W		
Connectors	2×3.5mm Switch Jack Ports 1×3.5mm Audio Jack Port 1×USB-C Power Connector		
Buttons	1×Volume Down 1×Volume Up 1×Power Button		
Bluetooth®	Bluetooth 5.0	Bluetooth 5.3	Bluetooth 5.3
Battery Capacity	16.416 Wh	30.744 Wh	
Battery Run Time	Up to 18 hours		
Battery Technology	Li-ion Polymer rechargeable battery		
Battery Charge Time	2 hours		
IP Rating	IP42		
Power Supply	15VDC, 3A, 45 W or 20VDC, 3A, 60 W AC Adapter		

D2 Power Adapter

Item	Specification
Trademark	Tobii Dynavox
Manufacturer	MEAN WELL Enterprise Co., Ltd
Model Name	NGE60-TD
Rated Input	100-240Vac, 50/60Hz, 1.5-0.8A
Rated Output	5V/9V/12V/15V/20Vdc, 3A, 60W max
Output Plug	USB type C

D3 Battery pack

Item	Specification		Remark
	Mini	Midi/Maxi	
Battery Technology	Li-Ion rechargeable battery pack		

Item	Specification		Remark
	Mini	Midi/Maxi	
Cell	2xNCA653864SA	2xNCA596080SA	
Battery Pack Capacity	16.416 Wh	30.744 Wh	Initial capacity, new battery pack
Nominal Voltage	7,2 Vdc, 2280 mAh	7,2 Vdc, 4270 mAh	
Charge Time	< 4 hours		Charge from 10 to 90%
Cycle Life	300 cycles		Minimum 75% of initial capacity remaining
Allowable Operating Temperature	0 – 35 °C, ≤75%RH		Charge condition
	-20 – 60 °C, ≤75%RH		Discharge condition

Appendix E Approved Accessories

Description	Model	Tobii Dynavox Part No.
TD Navio AC Adapter (Power Supply)	Tobii Dynavox NGE60-TD	1000769

For information about the latest approved Accessories for the TD Navio, please visit www.TobiiDynavox.com or contact your local Tobii Dynavox reseller.

Appendix F Local Certification Partners

The listed companies are the partners for our local certifications in their countries.

Contact Information:

Link Assistive Pty Ltd
11B MAB Eastern Promenade
Tonsley SA, 5042
Australia
+61 8 7120 6002

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Support for Your Tobii Dynavox Device

Get Help Online

See the product-specific Support page for your Tobii Dynavox device. It contains up-to-date information about issues and tips & tricks related to the product.
Find our Support pages online at: <https://www.tobiidynavox.com/pages/product-support>

Contact Your Solution Consultant or Reseller

For questions or problems with your product, contact your Tobii Dynavox solution consultant or authorized reseller for assistance. They are most familiar with your personal setup and can best help you with tips and product training. For contact details, visit <https://www.tobiidynavox.com/pages/contact-us>.