

T-Series Devices

User's Manual

T7
T10
T10+
T15



tobii dynavox

User's manual T-Series Devices

Version 2.2

03/2016

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1 Introduction

The Tobii Dynavox T7, T10, T10+ and T15 are integrated hardware and software solutions for Augmentative and Alternative Communication (AAC), a purpose built Speech Generating Device (SGD), which feature the Compass communication software.

This **User's Manual** provides an overview of the basic operation of your T7, T10, T10+ and T15 Android tablets. It points out key hardware features and describes the most frequently-used features and functions of your device.

1.1 Explanation of Admonitions

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



Is used for notifying the user of something important or of something that needs special attention.



Is used to inform of something that could cause harm to, or malfunction of, the equipment.



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



Is used to inform of something that can cause damage to hearing.



Is used to inform of something that cause permanent bodily harm with prolonged skin contact if the Warning is ignored.

1.2 Symbols and Markings

This section provides information about the symbols that are used on the T-Series, its accessories or packaging.

Symbol or Markings	Description
	Power On
	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.
	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.
	Degree of protection against harmful ingress of water or particulate matter (for adaptor).
	Degree of protection against the ingress of water or particulate matter (for main unit/appliance).
	Consult User's Manual

Symbol or Markings	Description
	Type L and Type R Listing Marks for Canada and the United States
	Conforms to relevant Australian EMC requirements
	Safety Class II equipment (reinforced insulation)
	This mark show the pin out polarity on the AC/DC Power Adapter.
-	Volume down
+	Volume up
	Type BF applied part
	Warning
	For indoor use
	Product full compliant German Product Safety law

1.3 Intended Use

The T-Series devices are intended for use as an augmentative communication aid, computer access, and environmental control unit for those with speech, language, physical, and cognitive disabilities. Their intended purpose is to compensate for lack of speech due to injury or handicap, and to provide a means of controlling the environment for persons who are unable to reach environmental control equipment due to injury or handicap. The device is accessible via touchscreen, keyboard, mouse/trackball, switch, and head tracking. T-Series devices are transit-operable equipment. During use, the T-Series devices may be placed on a flat surface, or mounted using an approved mount.

Your T-Series device is intended for everyday communication situations. It should not be relied upon as a means of communicating emergency medical information. We recommend having multiple ways to communicate information during a medical emergency.

1.4 Package Contents

The items below are included with your T-Series package:

- 1 Device (7", 10" or 15")
- 1 Power Supply
- 1 Android operating system (installed)
- 1 Compass (pre-installed)
- 1 T-Series User's Manual (on the device)
- 1 Compass User's Manual (on the device)
- 1 Quick Start Manual (printed)



Keep the original packaging materials for the T-Series.

In case the device needs to be returned to Tobii Dynavox for Warranty related issues or repair, it is required that the original packaging (or equal equivalent) is used for shipping.

1.5 myTobiiDynavox

Go to www.myTobiiDynavox.com to register for an account and register your T-Series device.

The myTobiiDynavox Community offers a large and steadily increasing library of over 250 Knowledgebase articles that cover all aspects of the T-Series devices and the Compass software.

1.6 Additional Documentation

A **Quick Start Guide** was shipped with your T-Series device. This guide provides an overview of your T-Series device, walks you through starting up and customizing it, and provides information on resources available to you on both www.myTobiiDynavox.com and through the **Help** menu on your T-Series device.

The **Compass User's Manual** is an introductory reference to the Compass software running on your T-Series device. It includes basic step-by-step instructions for selecting a pageset and access method, customizing the software for your user, modifying and editing pages, creating new pages, using the camera, programming the Remote Manager, and backing up and restoring.



On your device, open the **Settings** menu. Then select **Help > Compass User's Manual**.

2 Safety

The T-Series device has been tested and approved as compliant to all the Specifications and Standards listed in *Appendix B Compliance Information*, page 22 of this manual and in the *Appendix C Technical Specifications*, page 27 -- including, but not limited to, the Medical Device Standard (Class 1/Type B). In order to ensure safe operation of your T-Series device, there are a few safety warnings to bear in mind:



The patient is an intended operator and may safely use all device functions available from the device software.



Separate power supply (adaptor) is specified as a part of the product.



The whole appliance (excluding adaptor) is the applied part.



Expected service life: 5 years



This unit has been thoroughly tested and inspected to assure proper performance and operation.



The T-Series device may be mounted to a wheelchair or fixed on a table.



No modification of this equipment is allowed



Place your T-Series device in a stable area and supervise children and pets while they are in the vicinity of the T-Series device. To prevent strangulation, do not play with cables. Keep small parts, such as the detachable cover of the USB port, out of reach of children and animals that may inhale or swallow them.



Young children or people with intellectual disabilities should be supervised while using the T-Series device.



Care should be taken to avoid excessive dirt and dust that could cause unreliable operation. Do not place your T-Series device in bright sunlight for long periods, near fireplaces, radiant heaters, steam kettles, or nebulizers, to avoid potential overheating or damage to the device.



Your T-Series device requires little maintenance other than charging the battery and a periodic inspection of the power cords for signs of wear and damage. If the power cords show signs of wear and damage, they should be replaced. Regular preventive inspection and maintenance should be performed.



The patient may clean the exterior of the device as specified in *6.3 Product Cleaning/Handling*. All other maintenance and repairs must be done by a certified technician.



Turn off the device and disconnect cables and accessories prior to cleaning, service, or maintenance. Do not clean, service, or maintain the device while it is in use.



Tobii Dynavox will provide circuit diagrams, component part lists, descriptions, and calibration instructions to assist authorized service personnel in parts repair.




















Your device contains a Lithium Ion battery. A safety hazard may develop when the battery is placed in or near fires or stoves, or in locations with temperatures above 113 °F / 45 °C. These conditions may cause the battery to generate heat or explode.



Do not perforate, disassemble or modify the battery. If you must dispose of the battery, do so in accordance with the local laws that apply to the area where you live.



If you must dispose of the T-Series device or its accessories, do so in accordance with the local laws that apply to the area where you live.

-  Restrictions specified on other equipment or network/data couplings to which a signal input/output part may be connected.
-  Do not open the enclosure, stretch the openings, or touch the camera and the inner circuit.
-  This T-Series device presents a risk of electrical shock if the casing is opened. Do not open the casing that surrounds the device.
-  Do not use the device during thunder or electrical storms. There is a risk of electric shock and damage to the device. During storms, shut down and unplug the device.
-  Do not put the device screen or charging indicator light close to your eyes. Doing so could result in damage to the eyes.
-  If the screen is uncomfortable to look at, turn down the screen brightness or power off the device.
-  When connecting headphones to the device, ensure that the device volume is set low in order to protect the ears from potential harm.
-  The device can only be connected with other accessories and equipment which has been approved to be used safely without danger of high voltage. Use of unapproved accessories may result in electric shock.
-  Your T-Series device is not suitable for use in the presence of flammable anesthetics or other combustible materials such as fuels and chemicals.
-  Do not charge, power on, or use the device near combustible fuels or chemicals, such as at a gas station.
-  Your T-Series device conforms to IP22. IP22 explanation: the first digit [2] indicates the level of protection that the enclosure provides against access to hazardous parts [e.g. electrical conductors, moving parts] ,and the ingress of foreign objects. Level 2 provides protection to an object > 12.5 mm [fingers or similar objects]. The second digit [2] indicates the level of protection that the enclosure provides against harmful ingress of water. Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15 degrees from its normal position.
-  You T-Series charger conforms to IP21. IP21 explanation: the first digit [2] indicates the level of protection that the enclosure provides against access to hazardous parts [e.g. electrical conductors, moving parts] ,and the ingress of foreign objects. Level 2 provides protection to an object > 12.5 mm [fingers or similar objects]. The second digit [1] indicates the level of protection that the enclosure provides against harmful ingress of water. It is protected from condensation.
-  When you are charging your T-Series device, remember that the main outlet that you will be using to power the adapter must be accessible from within 6 feet (2 meters) of the device. There should be no switches or disconnect devices in the ground conductor.
-  The plug of the power adapter is used as the isolation means from mains. Do not position the device in such a way that the plug is difficult to disconnect.
-  Use care when installing and routing cables and accessories to avoid tangling and a possible tripping hazard.
-  Running the T-Series device for a long time may cause the temperature to temporarily rise to above 105 °F / 41 °C. Please power off the T-Series device if it is overheating. Do not hold an overheating device in your hands; place it on a hard, heat-resistant surface in an area with air flow to allow heat to dissipate.
-  The edge of the display can reach temperatures of up to 49°C/120°F. To prevent burns, do not touch the edge of the display for longer than 1 minute continuously.
The touch screen can reach temperatures of up to 46°C/115°F. To prevent burns, do not touch the screen in excess of 10 minutes continuously.



The necessary support for installation and use of your device is provided in this *User's Manual* and in the *Knowledge-base* at myTobiiDynavox.com. Anything unusual occurring during operation should be reported to Tobii Dynavox technical support.



This product needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile RF communications equipment.



This machine should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, this machine should be observed to verify normal operation in the configuration in which it will be used.



The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by Tobii Dynavox as replacement parts for internal components, may result in increased emissions or decreased immunity of the me equipment or me system.



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 T-Series 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 needs to be replaced every 12 to 18 months with typical use.



For safe and proper operation of your T-Series device, use only chargers, batteries, and accessories that have been approved by Tobii Dynavox.



Never, under any circumstances, disassemble your T-Series device. Doing so for any reason will void the warranty, and you will be responsible for the cost of any required repairs.



The LCD may show "image persistence" if the same image or page is displayed for four (4) consecutive hours or longer. The visual artifacts may or may not be noticeable or distracting. They will not cause permanent damage to the LCD.

3 Overview of the T-Series device

3.1 T7



Figure 3.1 T7 Front



Figure 3.2 T7 Top



Figure 3.3 T7 Back



Figure 3.4 T7 Side



Figure 3.5 T7 Bottom

1	Charging Indicator: Lit amber when the battery is charging. Turns blue when the battery is fully charged.
2	Ambient Light Sensor: Adjusts the screen brightness based on the surrounding light.
3	Front-facing Camera: Takes photographs of objects in front of the screen (e.g., self portraits).
4	Volume Rocker Switch: Press on the + side of the switch to increase volume. Press on the - side of the switch to decrease volume.
5	Speakers: Dual speakers provide an extensive range of volume.
6	Rear-facing Camera: Use for taking custom photos.
7	Infrared Window: Sends infrared signals.
8	Lanyard connections: Provide attachment points for the strap.
9	Charger Port: Plug in the adapter/charger to charge the battery.
10	Micro USB Port: Connect a micro-USB to full-size USB cable adaptor.
11	Speaker/Headphone/External Microphone Jack: Connect an external speaker, headphones for private audio, or an external microphone.
12	Power Button: To turn the device on, press and hold until the splash screen appears. Press and release to put to sleep. To shut down, press and hold until the shutdown menu appears.
13	Built-in Microphone: Record speech and custom sounds.



The LCD may show "image persistence" if the same image or page is displayed for four (4) consecutive hours or longer. The visual artifacts may or may not be noticeable or distracting. They will not cause permanent damage to the LCD.

3.2 T10



Figure 3.6 T10 Front



Figure 3.7 T10 Top



Figure 3.8 T10Back

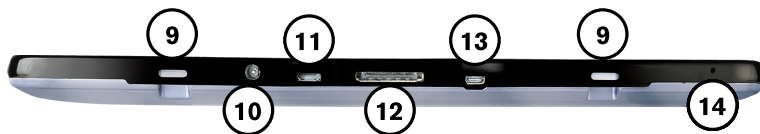


Figure 3.9 T10 Bottom

Front:	1	Charging Indicator: Lit amber when the battery is charging. Turns blue when the battery is fully charged.
	2	Power Button: To turn the device on, press and hold until the splash screen appears. Press and release to put to sleep. To shut down, press and hold until the shutdown menu appears.
	3	Front-facing Camera: Takes photographs of objects in front of the screen (e.g., self portraits).

	4	Ambient Light Sensor: Adjusts the screen brightness based on the surrounding light.
Top	5	Speakers: Dual speakers provide an extensive range of volume.
	6	Volume Rocker Switch: Press on the + side of the switch to increase volume. Press on the - side of the switch to decrease volume.
Right Side	7	Speaker/Headphone/External Microphone Jack: Connect an external speaker, headphones for private audio, or an external microphone.
Back	8	Rear-facing Camera: Use for taking custom photos.
Bottom	9	Lanyard connections: Provide attachment points for the strap.
	10	Charger Port: Plug in the adapter/charger to charge the battery.
	11	Micro USB Port: Connect a micro-USB to full-size USB cable adaptor.
	12	30-Pin Dock Connector: For infrared and switch accessory.
	13	Micro HDMI Port: Connect an external monitor to your device.
	14	Built-in Microphone: Record speech and custom sounds.



The LCD may show "image persistence" if the same image or page is displayed for four (4) consecutive hours or longer. The visual artifacts may or may not be noticeable or distracting. They will not cause permanent damage to the LCD.

3.3 T10+



Figure 3.10 T10+ Front



Figure 3.11 T10+ Top



Figure 3.12 T10+ Back

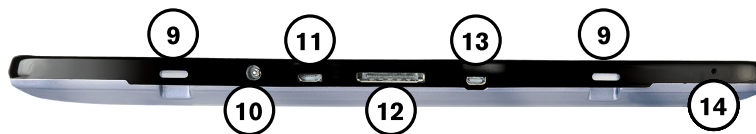


Figure 3.13 T10+ Bottom

Front:	1	Charging Indicator: Lit amber when the battery is charging. Turns blue when the battery is fully charged.
	2	Power Button: To turn the device on, press and hold until the splash screen appears. Press and release to put to sleep. To shut down, press and hold until the shutdown menu appears.
	3	Front-facing Camera: Takes photographs of objects in front of the screen (e.g., self portraits).
	4	Ambient Light Sensor: Adjusts the screen brightness based on the surrounding light.
Top	5	Speakers: Dual speakers provide an extensive range of volume.
	6	Volume Rocker Switch: Press on the + side of the switch to increase volume. Press on the - side of the switch to decrease volume.
Right Side	7	Speaker/Headphone/External Microphone Jack: Connect an external speaker, headphones for private audio, or an external microphone.
Back	8	Rear-facing Camera: Use for taking custom photos.
	9	Lanyard connections: Provide attachment points for the strap.
Bottom	10	Charger Port: Plug in the adapter/charger to charge the battery.
	11	Micro USB Port: Connect a micro-USB to full-size USB cable adaptor.
	12	30-Pin Dock Connector: For infrared and switch accessory.
	13	Micro HDMI Port: Connect an external monitor to your device.
	14	Built-in Microphone: Record speech and custom sounds.



The LCD may show "image persistence" if the same image or page is displayed for four (4) consecutive hours or longer. The visual artifacts may or may not be noticeable or distracting. They will not cause permanent damage to the LCD.

3.4 T15



Figure 3.14 T15 Front



Figure 3.15 T15 Top



Figure 3.16 T15 Back

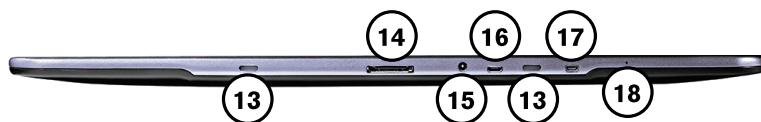


Figure 3.17 T15 Bottom

Front:	1	Power Button: To turn the T15 on, press and hold until the splash screen appears. Press and release to put to sleep. To shut down the T15, press and hold until the shutdown menu appears.
	2	Front-facing Camera: Takes photographs of objects in front of the screen (e.g., self portraits).
	3	Ambient Light Sensor: Adjusts the screen brightness based on the surrounding light.
	4	Charging Indicator: Lit amber when the battery is charging. Turns blue when the battery is fully charged.
Top/Right Side	5	Speakers: Dual speakers provide an extensive range of volume.

	6	Volume Rocker Switch: Press on the + side of the switch to increase volume. Press on the - side of the switch to decrease volume.
	7	Micro SDHC Card: Create local backups or provide additional storage for pictures and other media.
	8	Full-Size USB Port: Connect to a full-size USB drive. (Maximum current for the full-size USB is 2.0≤1A.)
	9	Speaker/Headphone/External Microphone Jack: Connect an external speaker, headphones for private audio, or an external microphone
	10	Switch Jacks(2): Connect external switch(es) for scanning access.
Back	11	Rear-facing Camera: Use for taking custom photos.
	12	Rear-Facing Infrared Window: Sends infrared signals.
Bottom	13	Lanyard connections: Provide attachment points for the T15 strap.
	14	30-Pin Dock Connector: Connector for accessories.
	15	Charger Port: Plug in the adapter/charger to charge the battery.
	16	Micro USB Port: Connect a micro-USB to full-size USB cable adaptor.
	17	Micro HDMI Port: Connect an external monitor.
	18	Built-in Microphone: Record speech and custom sounds.



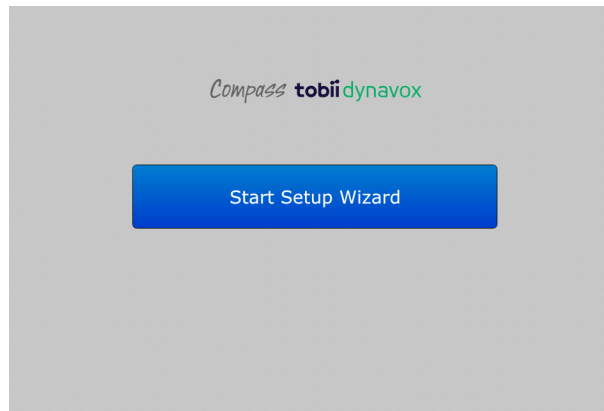
The LCD may show "image persistence" if the same image or page is displayed for four (4) consecutive hours or longer. The visual artifacts may or may not be noticeable or distracting. They will not cause permanent damage to the LCD.

4 Turning the T-Series On for the First Time

Press the Power button to turn on your device. The Compass software will start automatically.



The **Setup Wizard** screen will open.



Setup Wizard Screen

The Setup Wizard will walk you through the steps to choose an appropriate page set and start communicating.



See the **Compass User's Manual** for step-by-step instructions on using the Compass software running on your T-Series device.

4.1 Troubleshooting

If the device does not turn on when you press the Power button, connect the power supply cable to your device, then plug the power supply into an outlet. Press the Power button to turn on the device. Keep the device plugged in until the battery has fully charged.

If the Compass software does not start automatically when you turn on your device, select the Compass Icon on the desktop to launch it manually.

If the device software stops responding during use, press and hold the Power button until the device turns off. Press the Power button to turn the device on again.

If you are unable to hear sound coming from the device speakers, first unplug head phones or external speakers that may be attached to the device. Then, press the + side of the volume rocker switch several times.

5 Charging the Battery


When the battery charge is low, the device will emit an audible beep. You should plug in your T-Series device and recharge the battery immediately. If you are unable to plug in and recharge the battery, the device will shut down when the battery has completely lost charge. Save any open changes in your software before device shut down, as unsaved changes will be lost if the device must shut down due to loss of power.

1. Plug the charger supplied with your T-Series device into a wall outlet.
2. Connect the charger to the charger port on the T-Series device.
The charging indicator will glow amber while your T-Series device is charging. It will turn blue when it is fully charged.
3. After your T-Series device is fully charged, disconnect the charger.

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

You **can** use the T-Series device while the battery is charging.

The low battery alarm indicates approximately 20 to 60 minutes of operating time remaining, depending on battery age and system use.

The battery icon in the status bar displays the approximate charge remaining on the battery. 

A battery charge lasts for a minimum of 8 hours of continuous use or 20 hours on standby.

T-Series Device	Battery Model
T7	504899 3200mA/H 7.4V.
T10	5860103P/4000mAh/7.4V.
T10+	5860103P/4000mAh/7.4V.
T15	HX-5570138/5850mAh/7.4V.



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 T-Series 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 needs to be replaced every 12 to 18 months with typical use.



For safe and proper operation of your T-Series device, use only chargers, batteries, and accessories that have been approved by Tobii Dynavox.

5.1 Prolonging the T-Series Battery Life — Do's and Don'ts

- Do use the battery. It is good to allow the device to run on the battery until the first low battery warning, which will happen at about 14% remaining battery charge. When you hear the low battery warning, plug in the device and allow it to charge to 100%. You can continue working with the device or shut it down while it is charging.
- Do let the device charge until the battery power indicator light turns blue. Complete discharge to full charge cycles keep the device running the longest possible time on battery power.
- Don't run the device continually on the charger. If you use a mobile power supply with your device, then you should unplug the power supply from the device every few days and allow the battery to exercise.
- Don't store the device for prolonged periods of time without use/recharge. If you must store the device, the battery should be fully charged and the device powered off (not in sleep mode). We recommend never storing the device for more than 3 months. After 3 months of storage the battery will need to be completely cycled and charged until the battery indicator light turns blue.
- 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.

6 Product Care

6.1 Temperature/Humidity/Atmospheric Pressure Ranges

For optimal device performance, the T-Series device should be kept within the following ranges:

Activity	Temperature Range
Using the device and charging the battery	32 °F - 95 °F / 0 °C - 35 °C
Transport and storing	14°F - 113°F / -10°C - 45 °C
Relative humidity	Up to 90%
Atmospheric pressure	80 - 106 kPa



Run time will be shortened at the high and low ends of the temperature range.

6.2 Mounting/Transporting the T-Series

If you use your T-Series device while in a wheelchair, you should have it properly mounted for both communication and transportation purposes. Wheelchair mounting systems are available through Tobii Dynavox.

Protective and accessible carrying cases are also available. Consult the Tobii Dynavox website (www.tobiidynavox.com) or your Tobii Dynavox sales consultant or reseller for more information.

6.3 Product Cleaning/Handling



Turn off the device and disconnect cables and accessories prior to cleaning.

To clean your T-Series device, first turn it off and then wipe it gently with a damp cloth or soft paper towel. You may dampen the towel with a mild window cleaner to remove fingerprints, food particles, and dust. Do not use tape or stickers on either the touch screen or the case, as they are difficult to remove and may damage the device surface. Tape, stickers, and other sticky materials can damage the touch screen and interfere with the operation of the device.

Be sure to avoid getting your device wet. Never submerge it in water (e.g., dishwasher). If your unit accidentally gets wet, be sure to shut it down and allow it dry thoroughly. If after 24 hours you find that the device seems to function normally, there is probably no damage. If it fails to function or behaves abnormally, go to www.myTobiiDynavox.com > **Community & Support > myTobiiDynavox Community** to start the repair process by creating a new case. You may need to ship it to Tobii Dynavox for repairs. If you purchased your device through an authorized Tobii Dynavox reseller, you should contact your reseller for support and repair.





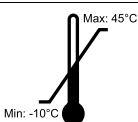
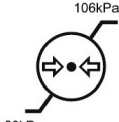
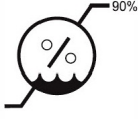
Be careful not to drop it. Such treatment is not recommended and can shorten the life of your T-Series device. Do not use a sharp object to make selections on the touch panel, as this can cause damage. Use your finger or a capacitive stylus.



Never, under any circumstances, disassemble your T-Series device. Doing so for any reason will void the warranty, and you will be responsible for the cost of any required repairs.

6.4 Cautions - Handling, Storage and Shipping

While handling, storing, or shipping, please pay attention to the labeling on the package.

Symbol or Markings	Description
	This Side Up
	Fragile
	Guard against Damp
	Warehouse Stack Limit (6 cartons)
	Storage Temperature: -10°C — 45°C / 14°F — 113°F
	Atmospheric pressure 80–106 kPa
	Relative humidity up to 90%

6.5 Disposing of the T-Series Device

Do not dispose of the T-Series Device in general household or office waste. Follow your local regulations for the disposal of electrical and electronic equipment.

6.6 Disposing of the Batteries

Do not dispose of the batteries in general household or office waste. Follow your local regulations for the disposal of batteries.

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 T-Series device and, if possible, an Internet connection. You should also be able to supply the serial number of the device, found on the back of the device.

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

Tobii Dynavox — North America	Tobii Dynavox — Europe
2100 Wharton Street Suite 400 Pittsburgh, PA 15203 1-800-344-1778	Box 743 S-182 17 Danderyd Sweden +46 8 663 69 90



The patient may clean the exterior of the device as specified in 6.3 *Product Cleaning/Handling*. All other maintenance and repairs must be done by a certified technician.

Tobii Dynavox will provide circuit diagrams, component part lists, descriptions, and calibration instructions to assist authorized service personnel in parts repair.

A2 Warranty

Please read the Manufacturer's Warranty paper included in the package.

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. Disassembling the T-Series device will void the warranty.



Keep the original packaging materials for the T-Series.

In case the device needs to be returned to Tobii Dynavox for Warranty related issues or repair, it is required that the original packaging (or equal equivalent) is used for shipping.

A3 Training Resources

Tobii Dynavox offers a range of training resources for the T-Series products and related communication products. You can find them on the Tobii Dynavox website, www.tobiidynavox.com or www.myTobiiDynavox.com, including Getting Started Guides, webinars and Quick Start guides. The T-Series device User's Manual is delivered with, and stored on, the T-Series device.

Appendix B Compliance Information

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 P15B 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.

B1.3 Radio Wave Exposure and Specific Absorption Rate (SAR) Information

The T-Series device has been tested as a Class 1 Medical Device. Medical electrical equipment such as this requires special caution regarding Electro-magnetic Compatibility (EMC) and thus needs to be installed and placed into service according to the information provided in this manual.



Using other cables and accessories other than those provided or that are integrated in the device may affect EMC performance.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. The highest SAR level measured for this device is <0.425W/kg, so this device meets the FCC Requirement.

Guidance and manufacturer's declaration – electromagnetic emissions		
The T-Series is intended for use in the electromagnetic environment specified below. The customer or the user of the T-Series device should assure that it is used in such an environment.		
Emissions Test	Compliance	Electromagnetic environment – guidance
RF emission CISPR 22		The T-Series uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 22	Class B	The T-Series is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage Fluctuations/flicker emissions IEC 61000-3-3	Complies	




The T-Series device should not be used adjacent to or stacked with other equipment.

Guidance and manufacturer's declaration – electromagnetic immunity			
The T-Series device is intended for use in the electromagnetic environment specified below. The customer or the user of the T-Series device should assure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines	± 2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s)	± 1 kV line(s) to line(s)	Mains power quality should be that of a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic immunity			
The T-Series device is intended for use in the electromagnetic environment specified below. The customer or the user of the T-Series device should assure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Voltage dips, short interruptions and voltage variations on power supply input lines. IEC 61000-4-11	< 5 % UT (>95 % dip in UT) for 0.5 cycles. 40 % UT (60 % dip in UT) for 5 cycles. 70 % UT (30 % dip in UT) for 25 cycles. < 5 % UT (>95 % dip in UT) for 5 s	< 5 % UT (>95 % dip in UT) for 0.5 cycles. 40 % UT (60 % dip in UT) for 5 cycles. 70 % UT (30 % dip in UT) for 25 cycles. < 5 % UT (>95 % dip in UT) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the T-Series device requires continued operation during mains interruptions, it is recommended that the T-Series device batteries are in place or that the device be powered from an uninterruptable power supply (UPS). UT is at 100 VAC 60 Hz or 230 VAC 50 Hz.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic immunity			
The T-Series device is intended for use in the electromagnetic environment specified below. The customer of the user of the T-Series device should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	Portable and mobile RF communications equipment should be used no closer to any part of the T-Series device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = \frac{7}{6} \sqrt{P}$ for 150 kHz to 80 MHz $d = \frac{7}{6} \sqrt{P}$ for 80 MHz to 800 MHz $d = \frac{7}{3} \sqrt{P}$ for 800 MHz to 2.5 GHz
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	

Guidance and manufacturer's declaration – electromagnetic immunity			
The T-Series device is intended for use in the electromagnetic environment specified below. The customer of the user of the T-Series device should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
			<p>where "P" is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and "d" is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,ⁱ should be less than the compliance level in each frequency range.ⁱⁱ</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol.</p> <p></p>
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflected from structures, objects and people.</p>			
<p>i. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the T-Series device is used exceeds the applicable RF compliance level above, the T-Series device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the T-Series device.</p> <p>ii. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

Recommended separation distances between portable and mobile RF (Radio Frequency) communications equipment and the T-Series device.			
<p>The T-Series device is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the T-Series device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the T-Series device as recommended below, according to the maximum output power of the communications equipment.</p>			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz
0.01	0.12 m	0.12 m	0.24 m
0.1	0.37 m	0.37 m	0.74 m
1	1.2 m	1.2 m	2.4 m
10	3.7 m	3.7 m	7.4 m
100	11.7 m	11.7 m	23.4 m

B2 Industry Canada Statement

B2.1 English

Low-power license-exempt radio communication devices (ICES-003)

- a. Common information
Operation is subject to the following two conditions:
 - 1. This device may not cause interference, and
 - 2. This device must accept any interference, including interference that may cause undesired operation of the device.
- b. Operation in 2.4 GHz band
To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.

This Class B digital apparatus complies with Canadian ICES-003.

B2.2 Français

De faible puissance exempts de licence des appareils de communication radio (CNR-210)

- a. Informations communes
Son fonctionnement est soumis aux deux conditions suivantes:
 - 1. Ce dispositif ne peut causer des interférences, et
 - 2. Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.
- b. Le fonctionnement en bande de 2,4 GHz
Pour prévenir les interférences radioélectriques aux services sous licence, cet appareil est destiné à être exploité à l'intérieur et à l'extérieur d'installation est soumise à licence.

Cet appareil numérique de la classe B est conforme à la norme CNR-210 du Canada.

B3 CE Statement

This equipment complies with the requirements relating to electromagnetic compatibility, EN 300386 class B for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility and R&TTE Directive 1999/5/EG to meet the regulation of the radio equipment and telecommunications terminal equipment.

Appendix C Technical Specifications

Standard	Tobii Dynavox T7	Tobii Dynavox T10	Tobii Dynavox T10+	Tobii DynavoxT15
Type/Model	T7	T10	T10+	T15
Screen	7"	9.7"		15.4"
	17.8 cm	24.7 cm		39.12 cm
Screen Resolution	1920 × 1200	1024 × 768		1440 × 900
Touch Panel	Multi point Capacitive Touch			
Dimensions (WxHxD)	8 × 5.7 × 1.2 inches 20.3 × 14.5 × 3 cm	10.15 × 7.68 × 0.83 inches 25.8 × 19.5 × 2.1 cm		15.06 × 10.38 × 1.63 inches 38.25 × 26.37 × 4.14 cm
Weight	1 lbs	1.87 lbs		3.84 lbs
	0.5 kg	0.85 kg		1.74 kg
Speakers	2 × 40mm × 30mm 8ohm 3W	2 × 36mm 8 ohm 2 W		2 × 40mm × 30mm 8ohm 3W
Microphone	1 × Analog Microphone			
Processor	Rockchip RK3288 Quad Core	NVidia Tegra3 quad core	Rockchip RK3288 Quad Core	NVidia Tegra3 quad core
RAM	2GB DDR3	1GB DDR3	2GB DDR3	1GB DDR3
Operating system	Android 4.4.4	Android 4.0.4	Android 4.4.4	Android 4.0.4
Flash Storage	32 GB eMMC			
SD-Card	N/A			None
Connectors	Micro USB	Micro USB		Micro USB
	Headphone/ microphone jack	Micro HDMI		Full-size USB port
		Headphone/microphone jack		Micro HDMI
		Expansion port for future accessories		Micro SDXC memory slot
Buttons				Headphone/ microphone jack
				Two switch ports
				Expansion port for future accessories
WLAN	IEEE 802.11 b/g/n Dual antenna diversity system			
Bluetooth®	2.1 protocol			
IR Remote Control (Environmental Control Unit)	Built in library, IR smart learning, support universal remote capabilities	N/A		Built in library, IR smart learning, support universal remote capabilities

Standard	Tobii Dynavox T7	Tobii Dynavox T10	Tobii Dynavox T10+	Tobii Dynavox T15
Type/Model	T7	T10	T10+	T15
Camera	Rear-facing: 8 Megapixels Front-facing: 1.3 Megapixels (720P or higher progressive video recording) Auto focus	Rear-facing: 5 Megapixels Front-facing: 1.3 Megapixels (720P or higher progressive video recording) Auto focus	Rear-facing: 8 Megapixels Front-facing: 1.3 Megapixels (720P or higher progressive video recording) Auto focus	Rear-facing: 5 Megapixels Front-facing: 1.3 Megapixels (720P or higher progressive video recording) Auto focus
Battery Run Time	> 8 hrs. normal usage			
Battery Charge Time	<4 hrs			
Deskstand	Accessory			
Mounting Systems Supported	ConnectIT Mount Plate			
Power Supply	MTP451BX - 120300 Input: Universal 100 ~ 240 VAC / 50 ~ 60 Hz 1.5 A Output: +12 VDC / 3 A			
IP class	IP 22			

Standard	Tobii Dynavox T7	Tobii Dynavox T10	Tobii Dynavox T15
Type/Model	T7	T10	T15
Screen	7" 17.8 cm	9.7" 24.7 cm	15.4" 39.12 cm
Screen Resolution	1920 × 1200	1024 × 768	1440 × 900
Touch Panel	Multi point Capacitive Touch		
Dimensions (WxHxD)	8 × 5.7 × 1.2 inches 20.3 × 14.5 × 3 cm	10.15 × 7.68 × 0.83 inches 25.8 × 19.5 × 2.1 cm	15.06 × 10.38 × 1.63 inches 38.25 × 26.37 × 4.14 cm
Weight	1 lbs 0.5 kg	1.87 lbs 0.85 kg	3.84 lbs 1.74 kg
Speakers	2 × 40mm × 30mm 8ohm 3W	2 × 36mm 8 ohm 2 W	2 × 40mm × 30mm 8ohm 3W
Microphone	1 × Analog Microphone		
Processor	Rockchip RK3288 Quad Core	NVidia Tegra3 quad core	NVidia Tegra3 quad core
RAM	2GB DDR3	1GB DDR3	1GB DDR3
Operating system	Android 4.4.4	Android 4.0.4	Android 4.0.4
Flash Storage	32 GB eMMC		
SD-Card	N/A		None

Standard	Tobii Dynavox T7	Tobii Dynavox T10	Tobii Dynavox T15
Type/Model	T7	T10	T15
Connectors	Micro USB Headphone/microphone jack	Micro USB Micro HDMI Headphone/microphone jack Expansion port for future accessories	Micro USB Full-size USB port Micro HDMI Micro SDXC memory slot Headphone/microphone jack Two switch ports Expansion port for future accessories
Buttons	1 × Power On 1 × Volume Up and Volume Down		
WLAN	IEEE 802.11 b/g/n Dual antenna diversity system		
Bluetooth®	2.1 protocol		
IR Remote Control (Environmental Control Unit)	Built in library, IR smart learning, support universal remote capabilities	N/A	Built in library, IR smart learning, support universal remote capabilities
Camera	Rear-facing: 8 Megapixels Front-facing: 1.3 Megapixels (720P or higher progressive video recording) Auto focus	Rear-facing: 5 Megapixels Front-facing: 1.3 Megapixels (720P or higher progressive video recording) Auto focus	Rear-facing: 5 Megapixels Front-facing: 1.3 Megapixels (720P or higher progressive video recording) Auto focus
Battery Run Time	> 8 hrs. normal usage		
Battery Charge Time	<4 hrs		
Deskstand	Accessory		
Mounting Systems Supported	ConnectIT Mount Plate		
Power Supply	MTP451BX - 120300 Input: Universal 100 ~ 240 VAC / 50 ~ 60 Hz 1.5 A Output: +12 VDC / 3 A		
IP class	IP 22		

Appendix D Approved Accessories

Description	Model	Tobii Dynavox Part No.
T-Series AC Adapter (Power Supply)	MTP451BX - 120300	200699

For information about the latest approved Tobii Dynavox Accessories for the T-Series, please visit the www.tobiidynavox.com website or contact your local Tobii Dynavox sales consultant or authorized reseller.

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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: www.TobiiDynavox.com or www.myTobiiDynavox.com.

Contact Your Sales Representative or Reseller

For questions or problems with your product, contact your Tobii Dynavox sales representative 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 www.TobiiDynavox.com/contact