

HMT-1

User Guide (English)
Version : 2



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FREE YOUR HANDS™ with HMT-1® from
RealWear® Using WearHF™ and WearML™



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RealWear may update this guide from time to time. You should ensure you are using the most current version which can be found at <https://realwear.com>.

Revision History

Revision	Date	Description



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Safety Usage Warnings

-  – Do not use HMT-1 while driving.
-  – Always wear HMT-1 with eye protection.
-  – Always use your dominant eye for comfortable viewing.

Disposal of Old Electrical and Electronic Equipment



The symbol of the crossed-out wheeled bin indicates that within the countries in the European Union, this product, and any enhancements marked with this symbol, can not be disposed as unsorted waste but must be taken to separate collection at their end-of-life.

Disposal of Battery



Please check local regulations for disposal of batteries. The battery should never be placed in municipal waste. Use a battery disposal facility if available.



Guideline for Headphone and Earphone



To prevent possible hearing damage, do not listen at high volume levels for long periods.

A pleine puissance, l'écoute prolongée du baladeur peut endommager l'oreille de l'utilisateur.



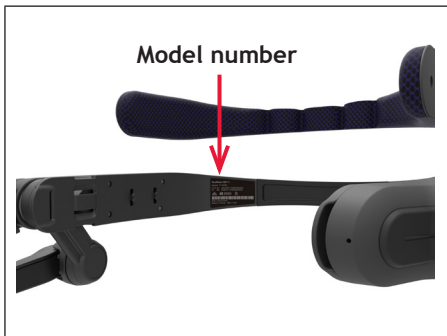
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General Information

RealWear HMT-1 is designed for skilled technicians and engineers employed in field service, equipment inspection, maintenance and complex manufacturing.

Head Mounted Tablet Models Covered

This user guide covers the following RealWear HMT-1 model: **T1100G**. You can find the model name on the HMT-1 device label on the rear side of the tablet.





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Operating Frequency Bands

Wi-Fi operating frequency band(s) details are as follows:

- 802.11a
- 802.11b
- 802.11g
- 802.11n HT20 (2.4GHz)
- 802.11n HT40 (2.4GHz)
- 802.11n HT20 (5GHz)
- 802.11n HT40 (5GHz)
- 802.11ac

Bluetooth: 10.55 dBm

5G Wi-Fi Connection Information

Operations in the 5.15 – 5.35GHz band are restricted to indoor use only.

RealWear Support Information

For additional product and support information, use the following information:

- **E-mail:** support@realwear.com
- **Website:** <http://www.realwear.com>
- **Postal address:** 600 Hatheway Road, Vancouver, WA – 98661



Safety Guidelines

Battery Performance

A rechargeable battery powers your device. Always use only the original type of RealWear battery that came with the device. Use the battery only for its intended purpose. Never use any charger or battery that is damaged. If the battery is completely discharged, it may take a few minutes before the charging indicator appears on the display or before the device can be used. The full performance of a new battery is achieved only after 3 to 4 complete charge and discharge cycles. The battery can be charged and discharged for multiple cycles but it will eventually wear out. Unplug the charger from the electrical plug and the device when not in use. Ensure that you do not leave the fully charged battery connected to the charger. If left unused, a fully charged battery will lose its charge over time.



There is a risk of explosion while charging if an incorrect battery other than the specified model is used.

Battery Replacement

If the HMT-1 battery is not charging properly, replace the battery with an original RealWear battery. If a replacement battery is being used for the first time or if the battery has not been used for a prolonged period, it may be necessary to connect the charger and then disconnect and reconnect it to begin charging the battery.

Avoid Short Circuit

Do not short-circuit the battery. An accidental short-circuit can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. This might happen, for example, when you carry a spare battery in your pocket or toolbox. A short-circuit at the terminals may damage the battery or the connecting object.



Avoid High Temperatures

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. For the best results, try to keep the battery between -10°C and +50°C (+14°F and 122°F). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Battery Disposal

Do not dispose of batteries in a fire as they may explode. Batteries may also explode if damaged. Dispose of batteries according to local regulations and recycle when possible. Do not dispose as household waste. Do not dismantle, open or shred cells or batteries. In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. In the event of leak or a hazard seek medical help immediately.

Child Safety

Do not allow children to play with your device or its accessories. Keep it out of their reach. They could hurt themselves or others, or could accidentally damage the device or accessories. Your device and its accessories may contain small parts, which could be detached and create a choking hazard.

Health and Safety Warnings

Stop using RealWear HMT-1 or its display immediately if you experience a headache, vertigo, dizziness or nausea. Do not use the HMT-1 display while operating any vehicle. Move the boom arm completely out of your line of sight when not using the display. Maintain situational awareness of your surroundings while using the HMT-1.



SAR Information

Radiation Exposure Statement — The United States and Canada

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

No minimum separation distance needs to be maintained between the user's body and the device, including the antenna, during body-worn operation to comply with the RF exposure requirements in the United States and Canada.

The limit recommended by FCC and IC is 1.6 W/kg averaged over one (1) gram of tissue.

The highest SAR value of the HMT-1 for use:

- By the ear is 0.95 W/kg (1g).

Radiation Exposure Statement — Europe

No minimum separation distance needs to be maintained between the user's body and the device, including the antenna, during body-worn operation to comply with the RF exposure requirements in Europe.

The limit recommended by RED is 2 W/kg averaged over ten (10) gram of tissue.

The highest SAR value of the HMT-1 for use:

- By the ear is 0.267 W/kg (10g).



Radiation Exposure Statement — Canada

The product complies with the Canada portable RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual.

Déclaration d'exposition aux radiations

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé. Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel.

Charger Use Safety Instructions

To use the charger follow these instructions:

-  – Make sure that the cable plug is properly connected.
-  – Keep the charger away from liquids.
-  – In case of any strange smell or noise from the charger, disconnect it and contact support.
-  – Before cleaning the cable or charger, disconnect from power supply.
-  – When using an extension cable, check the integrity of the ground conductor.
-  – Disconnect the charger from HMT-1, once the battery is fully charged.
-  – Do not use this charger in wet areas This charger is for indoor use only.
-  – Do not insert or remove the plug with wet hands.



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-  – Do not open the charger. For any issues, contact support.
-  – Do not cut, break or bend the cable in a knot.
-  – Do not put any objects on the cable that may let it overheat. It may damage the cable and cause fire or electrocution.
-  -Do not use any cable other than the original cable as it may cause short circuit or electrocution.



Introduction

This section provides information on using your RealWear HMT-1.

The list of items in the RealWear HMT-1 box are:

- HMT-1
- Rechargeable battery
- USB cable type C
- Overhead strap

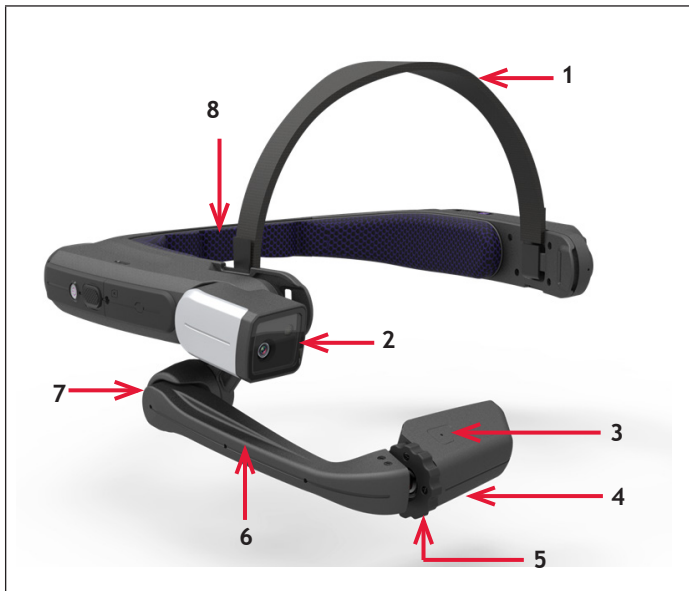
About the RealWear HMT-1

RealWear HMT-1 is the first-generation head mounted rugged tablet. You can operate the tablet completely hands-free using only voice commands and head gestures. This hands-free operation is done using WearHF™ software, built into every RealWear device. The HMT-1 runs on Android 6.0.



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HMT-1- Parts Representation — Front View and Battery Housing



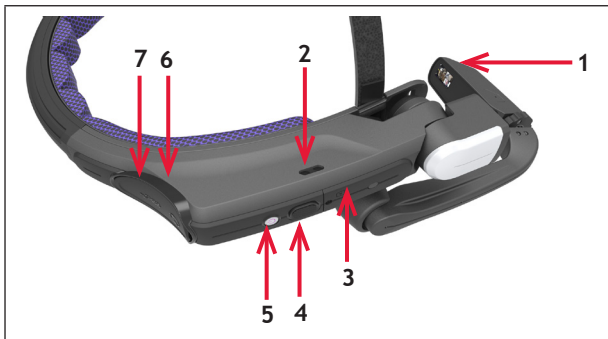


HMT-1 Parts and Functions — Front View and Battery Housing

Part Name	Action
1 – Overhead strap	Supports HMT-1 on the head.
2 – Camera pod	Holds a camera to take photos and videos.
3 – Mic A2 – located on the upper portion of the display pod	Auxiliary microphone for voice commands.
4 – Mic A1 – located on the lower portion of the display pod (not visible in the image)	Primary microphone for voice commands.
5 – Wrist joint locking ring	Supports and helps to reposition the display pod.
6 – Boom arm	Supports and helps to reposition the display pod.
7 – Elbow joint	Supports and helps to reposition the display pod.
8 – Rear head pad	Supports the device on the rear and side of the head.
9 – Rechargeable battery housing	Holds rechargeable battery.
10 – Rechargeable battery	Powers the device and can be recharged when required.
11 – Battery cap	Gives access to the rechargeable battery.



HMT-1 — Parts Representation — Side View with USB Type - C Port



Part Name	Action
1 – Display pod	Holds the main LCD display to operate the HMT-1.
2 – Speaker	Outputs audio from the HMT-1.
3 – Micro SD card slot	Holds the microSD card.
4 – Action button	Context-related operations.

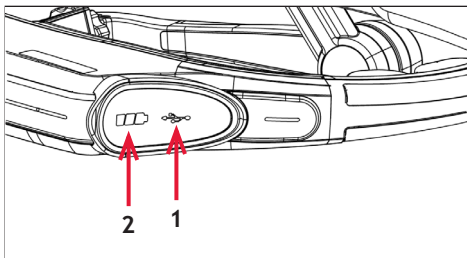


Part Name	Action
5 – Power ON button	Places the device in sleep mode and wakes up the device. When pressed for a few seconds, this Powers the device on and off. Functions as Home button to return to the Home screen from any screen' should be the description of the “ Action Button ”.
6 – Audio jack	Connects to audio device using 3.5 mm audio jack.
7 – USB Type-C	Connects to the USB type C charger.

Regional USB charger shipped in separate box.



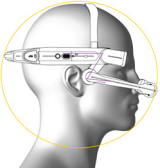
HMT-1 — Parts Representation — Side View with Micro USB Port



Part Name	Action
1 — Micro USB	Connects HMT-1 to a computer — for data transfer and ADB interface.
2 — Battery housing with rubber lid	Holds rechargeable battery.



Wearing RealWear HMT-1

	1. Position the HMT-1 such that main unit is positioned on the side of the head forming a Z shape and the display pod is aligned in front of your left or right eye.
	2. Move the head strap in/out and collapse the hinged main unit inwards, to fix the HMT-1 tightly. Adjust the back strap and the top band located on the top of the head, to fix HMT-1 at a comfortable position.

Adjusting Display Pod

	1. After positioning HMT-1, adjust the display pod about 1-2 inches from the eye. 2. Position the display pod below the line of sight for viewing the display screen clearly.
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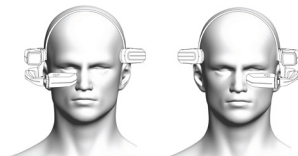
3. Move the display pod forward or backward, to view the entire display screen.

When set correctly the screen will be bright and crisp, and you can even read the smallest text.

Sometimes, to get the complete view of the display pod, you might have to adjust the whole unit on the head either left or right when part of the screen is not visible on the left or right side.



Position the display pod just below your dominant eye. You can switch the HMT-1 from left-eye to right-eye.



If you wear eye-glasses to operate a computer, or eye protection for your work, continue to wear the same glasses or eye protection while using HMT-1. While the HMT-1 is designed to work well with or without eye-glasses or eye protection. RealWear recommends wearing eye protection while using the HMT-1.



Fitting HMT with Optional Accessory Mounts

You can wear your safety goggles and hard hat with the HMT-1.

	Bump cap mounting using the tri-band strap (SKU 171033)
	Hardhat mounting using optional accessory clips (check RealWear Website for specific model availability)

Inserting Rechargeable Battery

The RealWear HMT-1 requires a rechargeable battery to function.

1. Open the rubber lid located on the back of the battery housing and unscrew battery cap by turning counter-clockwise for approximately 1/8 turn.
2. Align and insert the battery in the compartment, with the contact positioned at the bottom of the battery compartment.



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3. Align the battery cap so it slides fully into the compartment, and secure the cap by turning it clockwise for approximately 1/8 turn.



Charging HMT-1

To recharge the battery:

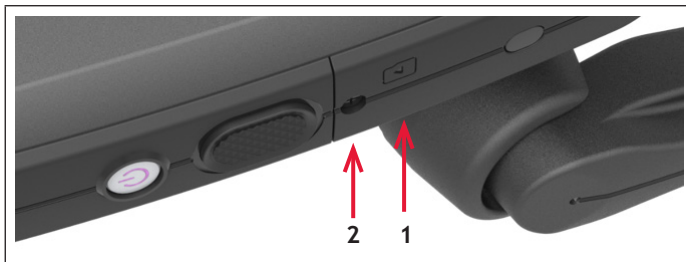
1. Connect the USB Type-C charging cable to the Type-C USB port located on the rear side of the main housing, under the rubber lid.
2. Connect the charging cable to the wall charger.
3. Plug the wall charger into an electrical outlet. The power button will be lit throughout the charging cycle, changing color from **red** to **yellow** to **green** depending on the amount the battery has charged. **Green** signifies a full charge.





Inserting and Setting Up MicroSD Card

You can insert a microSD card into the specified slot and store media files and documents.



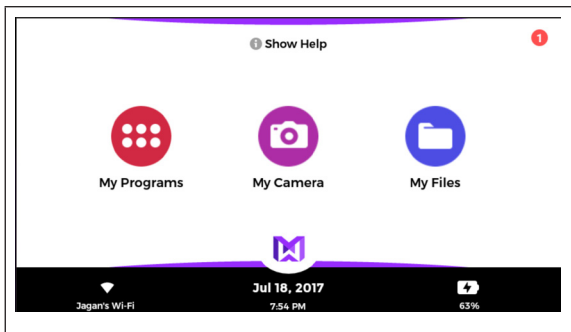
Part Name	Action
1 – MicroSD card slot door	Covers the microSD card slot. Open this door to insert/remove the micro SD card.
2 – Screw to open microSD card slot	Holds the microSD card slot door. Unscrew to open the door using a Philips #00 screwdriver.



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1. Unscrew the micro SD card door and pull the edges to open.
2. Insert the micro SD card.
3. Fix the micro SD card door and tighten it with the screw.

When the microSD card is inserted and recognized by HMT-1, a notification is displayed in the top right corner of the screen.

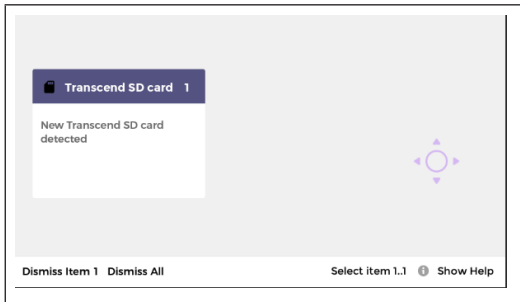




Setting Up MicroSD Card

Complete the following procedure to setup the micro SD card.

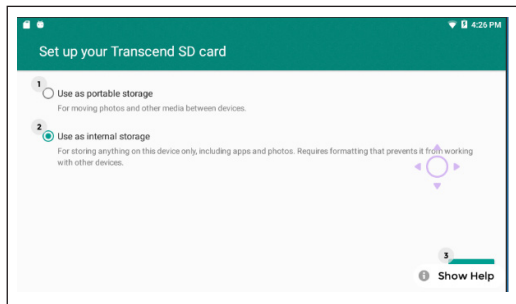
1. Say **My Notification** and select **SD Card Notification** to setup the micro SD card.



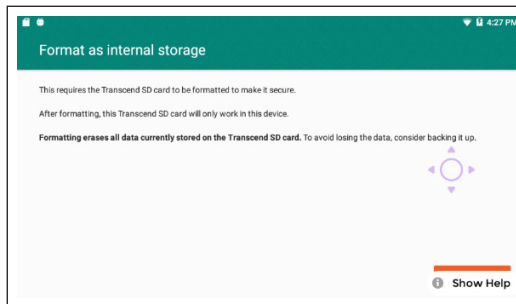


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2. Select the option to format the SD card and set it up as the internal storage.



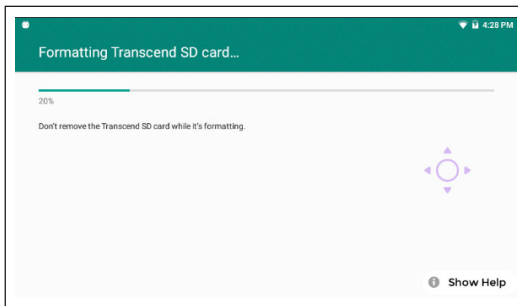
3. A warning message to format micro SD card is displayed. The OK option is hidden behind show help, and hence say **Select Item 1**.



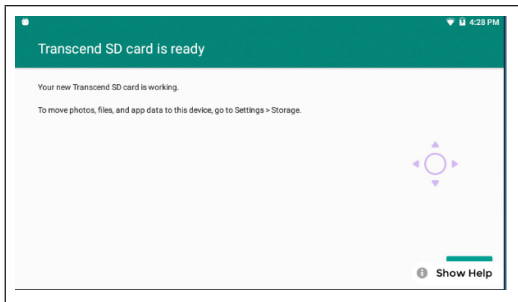


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The micro SD card formatting progress is displayed.

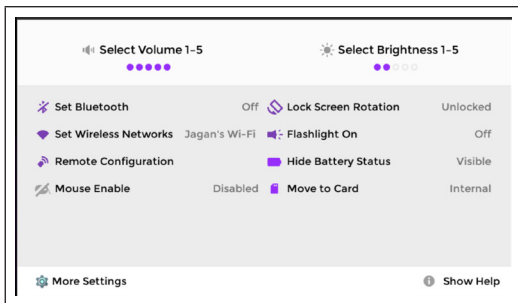


After micro SD card formatting is completed, you can move your media files and documents to the micro SD card to use SD card as the internal storage.

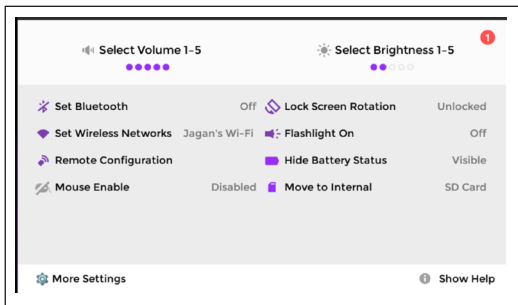




4. Go to **My Controls** and Select Option **“Move to Card”**, if you want to use SD card as the internal storage.



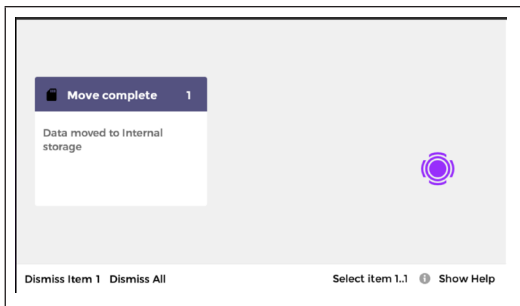
All the files are moved to micro SD card.





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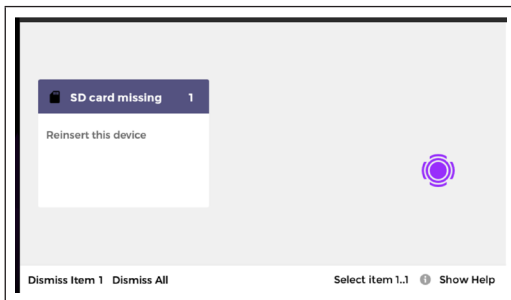
If you require to switch back to internal memory, say **“Move to Internal”** and the following confirmation message is displayed in the **Notifications**.



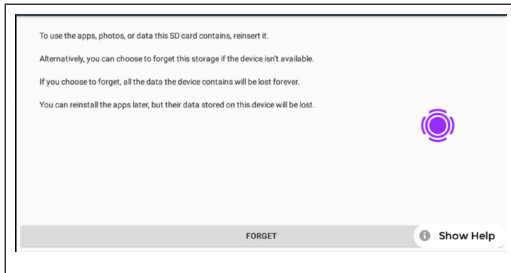
Make sure to move the files back to the internal memory before removing the micro SD card.



5. If you remove the micro SD card before transferring the files to internal storage, SD card missing notification is displayed in Notifications.

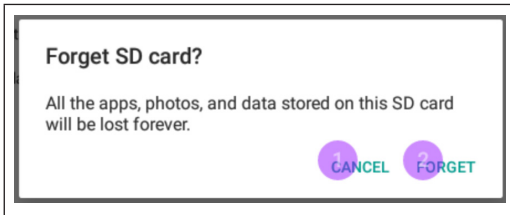


6. Say **Forget SD card** to dissociate the SD card from HMT-1. This step is mandatory as some applications using the internal memory will not work.





7. A warning notification is displayed. Say **Forget** to complete the process.





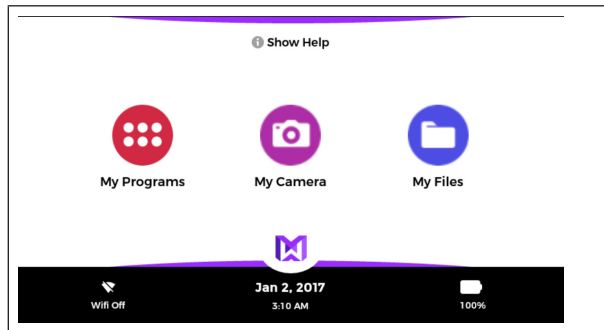
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Using Voice Commands

WearHF™ is an innovative software solution that enables you to use the RealWear HMT-1 as a hands-free device. It is easy to use and loaded with intuitive functions.

Speech Recognition — Say What You See

HMT-1 operates based on speech recognition. Instead of pressing or tapping a control button on the screen, all you need to do is speak the name of the respective control. All the commands associated with the specific screen are displayed clearly on the screen. HMT-1 uses the latest technology for advanced noise cancellation and speech recognition and works even in the harshest noisy environments. It can recognize many different languages and accents and can detect the command even if you speak in a low voice. It recognizes many different languages and accents. You can activate the device by speaking the name of any control. For example, the Home Screen has 3 large icons with respective feature names. To access these applications, you can say the application name and the corresponding screen is launched.





Global Commands

HMT-1 can also recognize certain voice commands that can be activated from any screen. These are known as global commands. The following is a list of global commands in English. For global commands in other languages, refer to the respective user guide.

Voice Command	Action
“Navigate Home”	Navigates to Home Screen.
“Navigate Back”	Navigates to previous screen.
“My Controls”	Navigates to system control panel.
“Mute Microphone”	Mutes the microphone temporarily.
“My Notifications”	Opens Notification section.
“Recent Applications”	Opens Applications running in background.
“Show Help”	Displays pop-up window with the help for commands associated with the current screen.

Anytime Access Help

You can access the help information regarding the commands associated with a particular screen, with “Show Help” command. The “Show Help” command is displayed on all the screens. The help screen is displayed as a pop-up window. This pop-up window is displayed for 2 Seconds.

Alternate Speech Recognition

Sometimes, the control on the screen has no name, scroll button without a label, or a file button with filename such as 3454-x.pdf, set as the label.

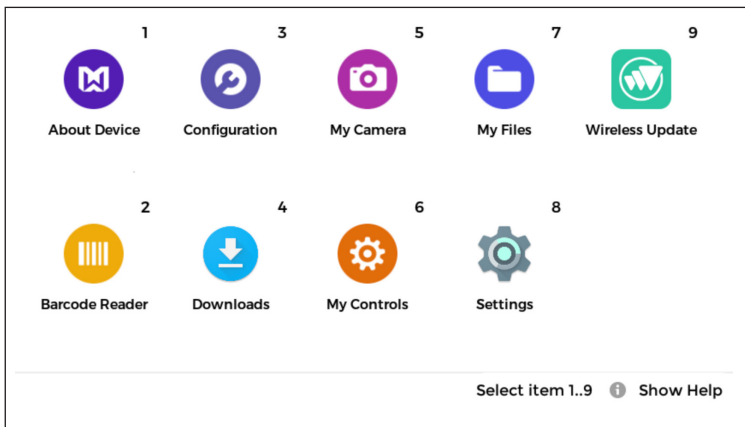
35 In such scenarios, WearHF™ automatically proposes an alternative speech command, and assigns



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a number. This number is displayed next to the respective control on the screen. To recall the specific control numbers for that screen, say **“Show Help”**.

To select a specific control, you need to use the number assigned to it. For example, you can say **“Select item 1”** to select the first unpronounceable button, or **“Select item 2”**, to select the second unpronounceable button.



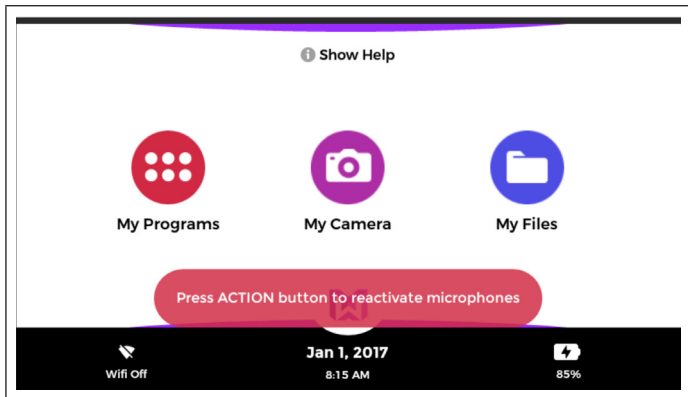


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Mute Microphone

To stop the speech recognizer, say “**Mute Microphone**”. The device will not respond to your voice commands while the microphone is muted, and a red warning sign is displayed on the screen.

To restart the speech recognizer, tap the **Action** button on the side of the device, located next to the **Power** button.

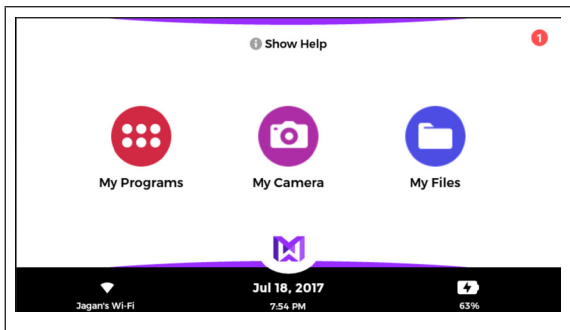




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About Notifications

When you have any notifications in your HMT-1, the number of notifications is displayed in the top right corner of the display.



Say **My Notifications** to open the list of notifications.

Say **Open item <notification number>**, to view a specific notification.



Scroll Up and Down

You can scroll and view different portions displayed on the screen, using the following voice commands.

Voice Command	Action
“Page Up”	Navigates to 1 page up.
“Page Down”	Navigates to 1 page down.
“Page Left”	Navigates to 1 page left.
“Page Right”	Navigates to 1 page right.
“Show Help”	Displays pop-up window with the help for commands associated with the current screen.

Head Gesture

The following features do not support page up/down and left/right —

- My programs
- My files
- Document viewer

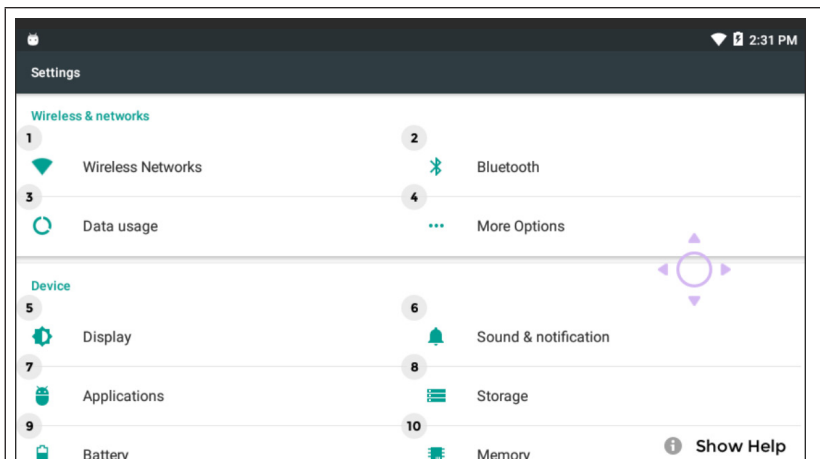


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For example, In Settings page, we can use voice command “Page down” to scroll down and “Page Up” to scroll up.

At any point of time if you want to use head gestures instead of voice commands, say “**scroll enable**” and we can use head gestures to scroll up and down.

To disable head gestures, say “**scroll disable**”.

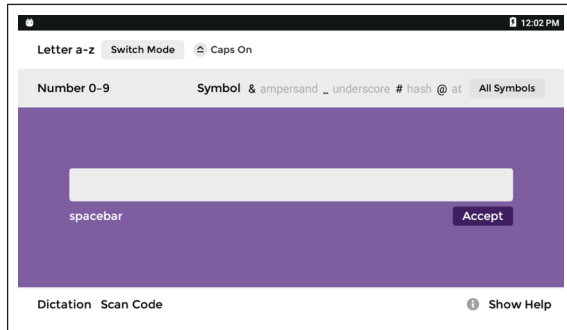




Virtual Hands-free Keyboard

HMT-1 has a virtual hands-free keyboard to enter text. This keyboard works based on voice recognition. Whenever a text entry screen appears, the hands-free keyboard is displayed automatically. The various virtual keyboards are,

- Alphabet keyboard – to enter alphabets
- Symbol keyboard – to enter symbols
- Number keyboard – to enter numbers
- Dictation – to dictate and enter text. This option requires active Wi-Fi connection





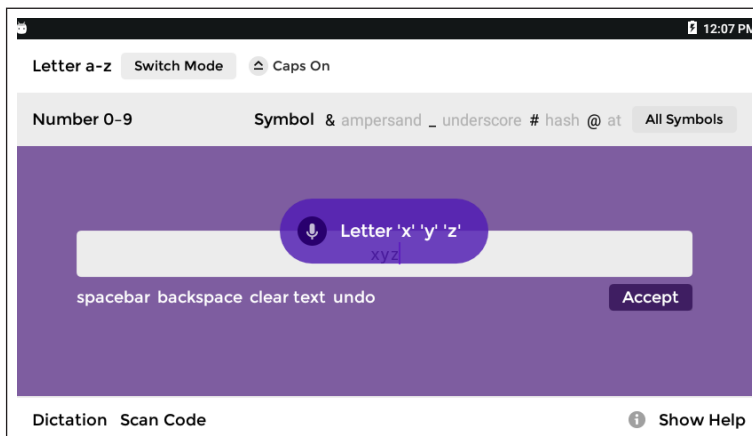
Voice Command	Action
“Accept”	Accepts the entered information and navigates to the next screen in sequence.
“Spacebar”	Inserts a single space.
“Backspace”	Deletes the last character.
“Clear Text”	Clears the text in the Input box.
“Caps On”	Uses capital letter.
“Caps Off”	Uses lowercase letter.
“Dictation”	Activates dictation and enters text based on speech recognition.
“Scan Code”	Scans QR code. To set the zoom level for clear scanning say “ Zoom level 1-5 ”. For example, to set the zoom level to 3, say “ Zoom level 3 ”.
“All Symbols”	Switches to Symbol keyboard.
“Switch Mode”	Toggles between single alphabet entry and multiple alphabets entry input mode. For more information refer to “ Alphabet Keyboard ” on page 43 .
“Show Help”	Displays pop-up window with the help for commands associated with the current screen.



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Alphabet Keyboard

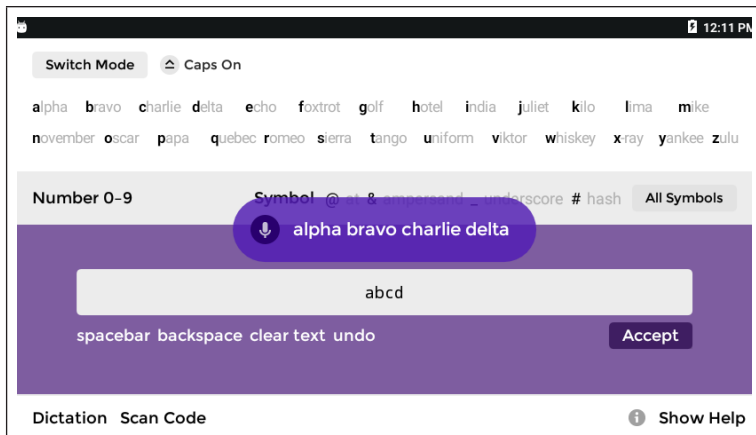
To type a letter say “Letter [followed by the letter you want to use]”. For example, to type XYZ, say “Letter XYZ”.





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Say “**Switch Mode**”, to switch to the keyboard that recognizes one alphabet at a time and works based on the international radio alphabet codes. For example, if you want to type “a”, you must say “Alpha”.

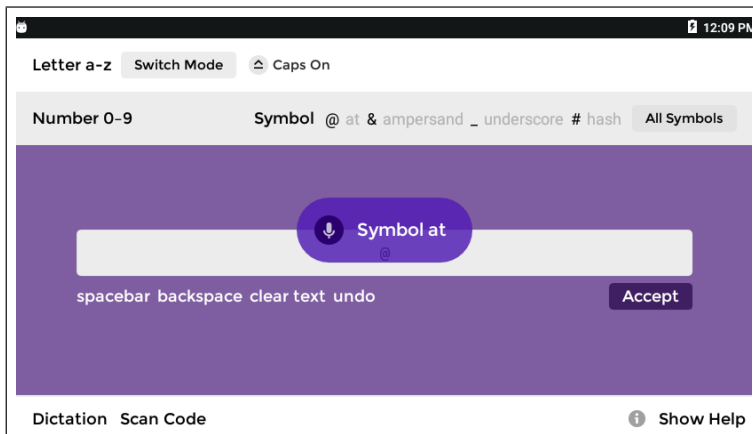




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Symbol Keyboard

To view Symbol keyboard, say “**All Symbols**”. To type a specific symbol, say the “**Symbol** <symbol name>” provided corresponding to the symbol.

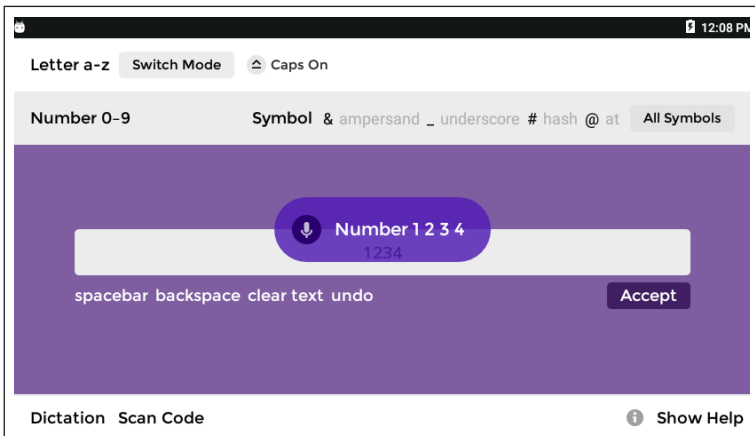




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Number Keyboard

To type a number say “Number [followed by the numeral you want to use]”. For example, to type 8, say “Number 8”.

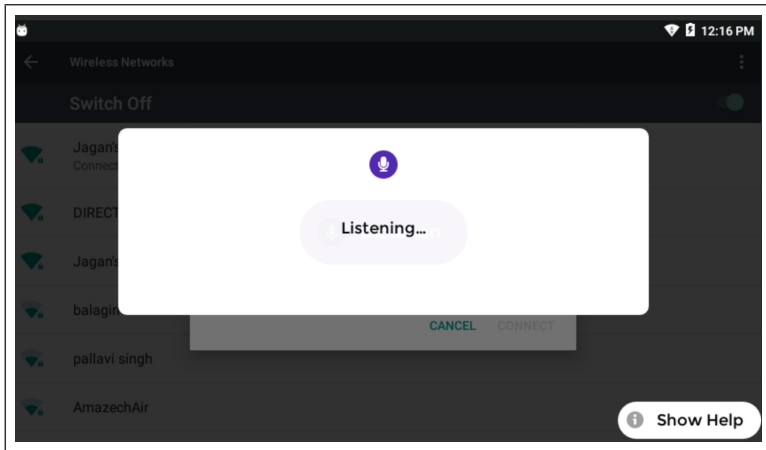




Dictation Service

Dictation service requires activate Wi-Fi connection.

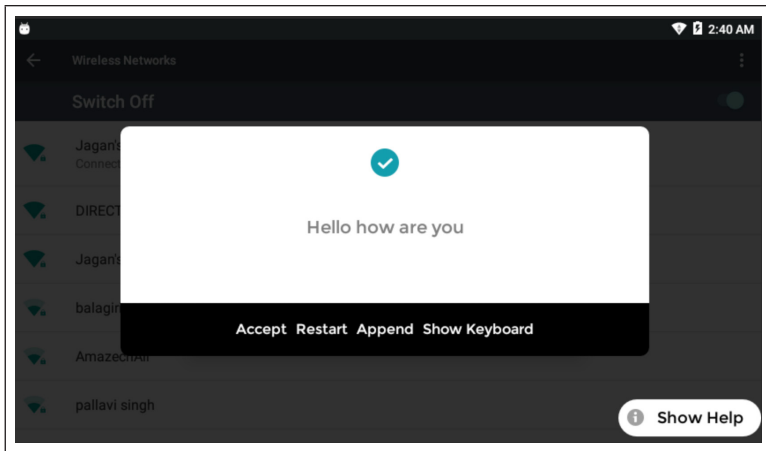
1. To activate dictation service, say “**Dictation**” in virtual keyboard screen. The screen will change to “**Listening**” mode.



2. Speak/dictate the text to be entered.



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3. To enter more text, say **“Append”**.
4. To restart the dictation, say **“Restart”**.
5. To complete the dictation and proceed to the next screen, say **“Accept”**.
6. To switch to keyboard mode for entering text/symbols/numbers, say **“Show Keyboard”**.



Setting Up HMT-1

You can use the HMT-1 control panel to access the common device configuration settings. You can also use it to access Android system settings.

Setting Up HMT-1 Using Remote Configuration

When you switch ON the HMT-1 for the first time a remote configuration screen is displayed. Visit <http://www.realwear.com/configure> and complete the following procedure.

To skip the remote configuration and perform later, press the **Action** button.

1. Open a Web browser in your computer.
1. Visit <http://www.realwear.com/configure>.
2. Click **Configure your HMT-1**.
3. Select the communication language and click **Continue**.
4. Select your local time zone and click **Continue**.
5. Enter the **Access point** and **password** to setup the Wi-Fi network for your HMT-1 (optional).
6. Click **Create Configuration QR code**.

The QR code is generated and displayed on the computer screen.



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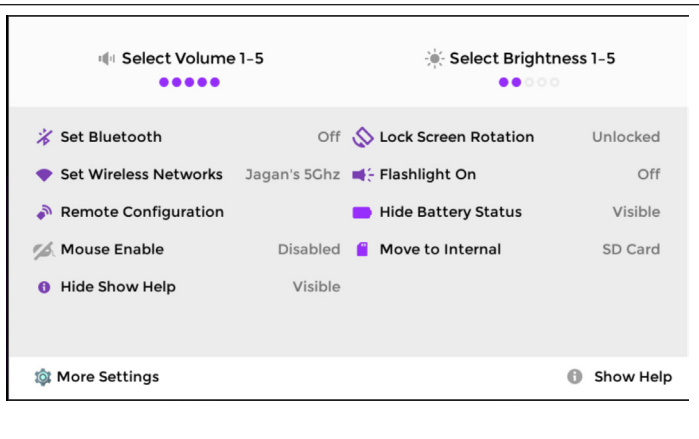
7. Scan the QR code using the “Configuration” application in the “My Programs” menu.

Scan the QR code with your headset



Using Control Panel

You can access the control panel from any screen. To access the control panel, say “My Controls”. The Settings screen is displayed.



HMT-1 Settings

Voice Command	Action
"Select Volume 1, Select Volume 2, ... Select Volume 5"	Sets the default volume level of the device to specific value – 1 to 5. For example, to set volume to 4 say "Select volume 4".



Voice Command	Action
"Select Brightness 1, Select Brightness 2, ... Select Brightness 5"	Sets the default brightness of the device display to specific value – 1 to 5. For example, to set the brightness to 2, say "Select brightness 2".
"Set Bluetooth"	Displays the Bluetooth status.
"Lock/Unlock Screen Rotation"	Enables/disables screen rotation when headset is flipped upside down.
"Set Wi-Fi"	Displays the Wi-Fi status and the name of Wi-Fi network connected to the device To access Android Wi-Fi settings, say "Set Wi-Fi".
"Flashlight On / Flashlight Off"	Switches On/Off flashlight.
"Remote Configuration"	Configures the HMT-1 using the QR code generated using the remote configuration website http://www.realwear.com/configure . To set the zoom level for clear scanning say "Zoom level 1-5". For example to set the zoom level to 3, say "Zoom level 3".
"Show/Hide battery status"	Displays/hides the battery charge indicator details on the Home screen.



Voice Command	Action
“Mouse Enable/Disable”	Enables/disables virtual mouse that can be controlled using head gesture. When mouse is enabled, a mouse pointer is displayed to track the operation.
“Move to Card”	Moves the data stored in internal memory to micro SD card.
“Move to Internal”	Moves the data stored in micro SD card to internal memory.
“More Settings”	Displays standard Android settings.
“Hide Show Help”	Hides Show Help option displayed in all the screens.
“Show Help”	Displays pop-up window with the help for commands associated with the current screen.



Setting Up Screen Lock Using Android Settings

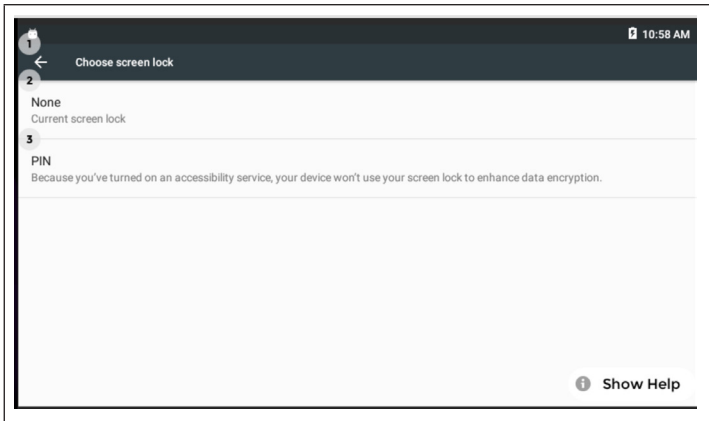
Screen lock protects your HMT-1 from unauthorized access. To setup the screen lock, complete the following procedure.

1. Go to control panel. To access the control panel say “**My Controls**”. The Settings screen is displayed.
2. Go to Android Settings. To access Android settings, say “**More settings**”. The Android settings screen is displayed.
3. Go to **Android settings > Security**.
4. Select **Screen Lock**.



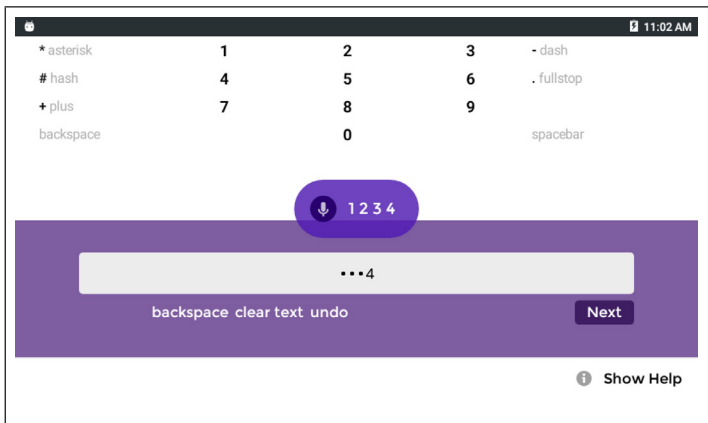


5. Select PIN to setup the screen lock.



Enter PIN screen is displayed.

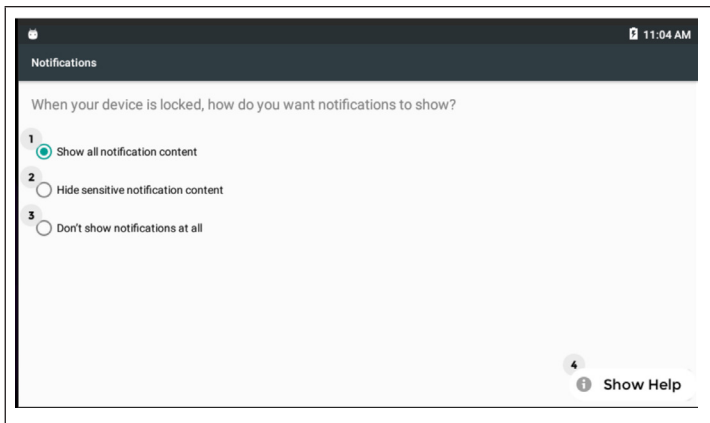
6. Input the desired pin with 4 to 15 digits, by saying the digits and say **Next**.



7. Re-enter the PIN for confirmation.
8. Select the option to display the notifications on the Home screen, when the device is locked. You can opt to view all the notifications or hide specific notifications. You can also opt to hide all the notifications.



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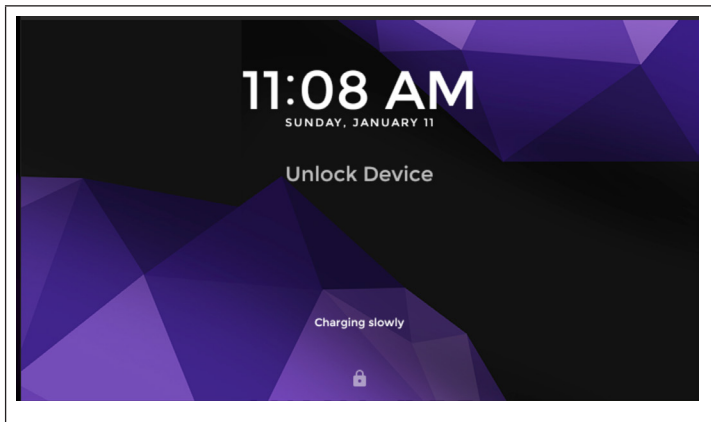
The Screen Lock is enabled.



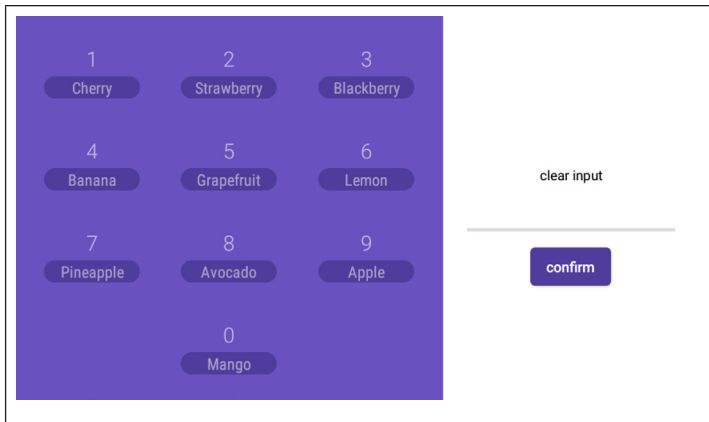
Unlocking your Device Using Screen Lock

When screen lock is enabled, the device gets locked when it goes to sleep or when you press the Power ON button. To unlock the device,

1. Press the Power ON button and say “Unlock device”.



2. Input your PIN. Say the fruit/vegetable name corresponding to each digit of the PIN number.



For example, to enter a PIN 1234, you must say “**Cherry Strawberry blackberry banana**”.

3. After entering the PIN, say “**Confirm**”. The device is unlocked if correct PIN is entered.



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Updating HMT-1 Software

you can check for and install updates.

1. Power ON the HMT-1 and connect to a Wi-Fi network.
2. Navigate to **My Programs > Wireless update**.

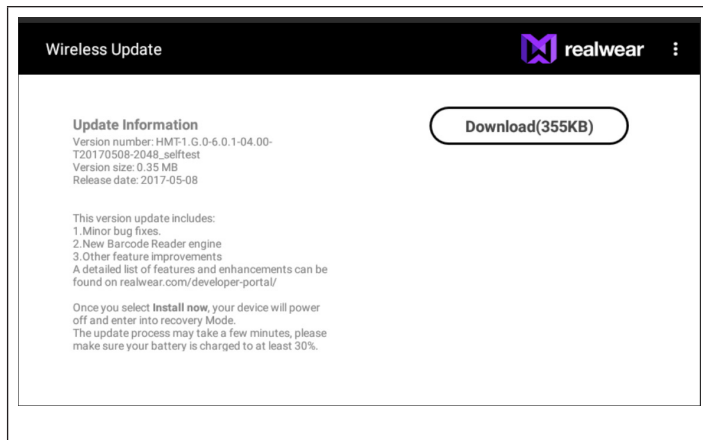


3. Say “Check for updates”.

An option to download the package is displayed if there is an available update.



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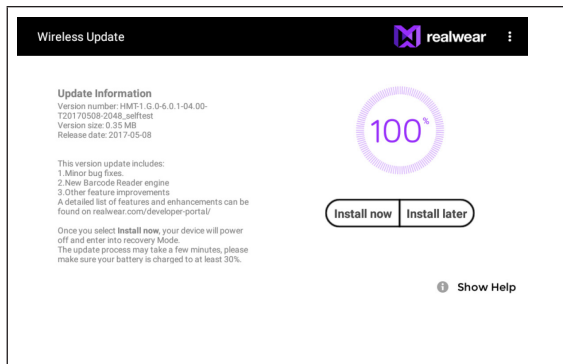
4. Say “**Download**” followed by the size in KB/MB or say “**Select item** (followed by the item number)”.

The software update download will start. The download time depends on the size of the package and the network connectivity.

Once the download is completed, an option to **Install now or later** is displayed.



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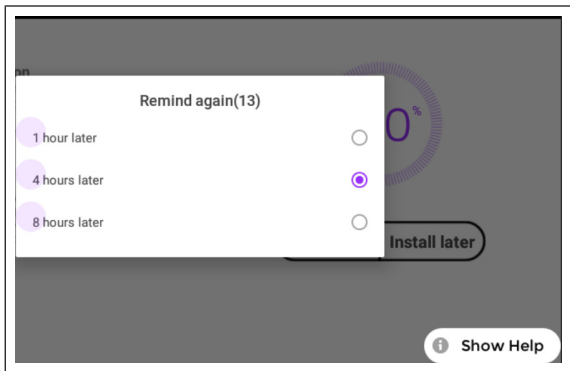


Select “install Now” to install and update the HMT-1 software.

If you say “Install later”, a pop-up to set the installation delay time is displayed for about 15 seconds. You can set the installation delay time to by 1, 4 or 8 hours. If the delay time is not set within the given time, the default delay timer is set to 4 hours.



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Warning Messages to Note During Software Update

Be sure to read the following warning messages before proceeding with the software update.

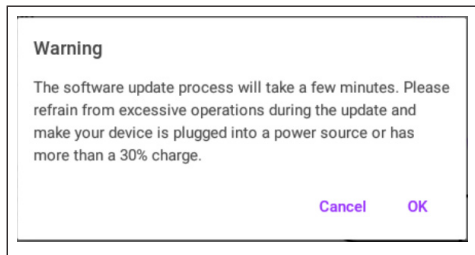
Battery Alert

We recommend not to use HMT-1 during the software update. Also ensure that there is at least 30 % charge or that the HMT-1 is connected to a power source.



Software Update Warning

When the software update begins, the following warning is displayed.



Connecting HMT-1 to Computer

You can connect your HMT-1 to a computer to perform file transfer and ADB interface.

Connect your HMT-1 to the computer using a micro USB cable. You can transfer files from/to the computer and also access the HMT-1 using an ADB interface.



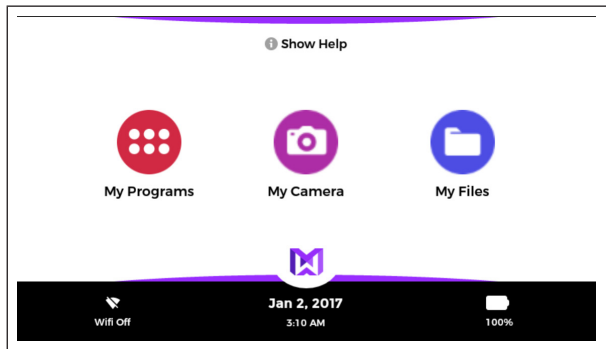
Using HMT-1

Switching ON

Press and hold the Power ON button for 2 seconds to Power ON the HMT-1.

Home Screen

The Home screen is the main screen for performing all activities on the HMT-1. It allows the user to quickly access files, key applications and at the same time provides useful information such as the time, date and battery status.

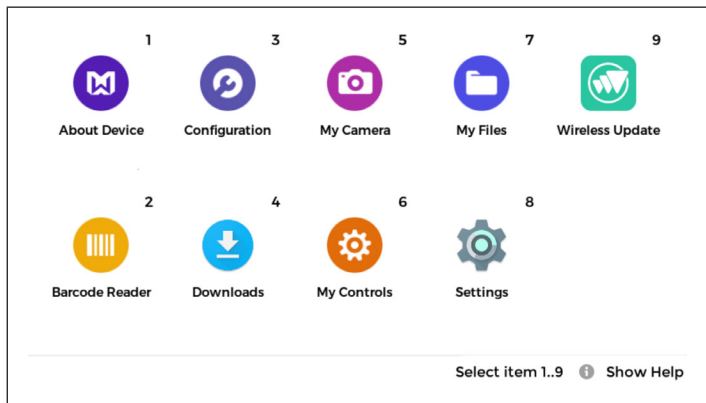




Control Buttons in Home Screen

You can access the various applications by activating the following controls provided in the Home Screen.

Voice Command	Action
“My Programs”	Launches application launcher to see and access all the applications installed in the device.
“My Camera”	Launches camera.
“My Files”	Launches files manager to easily access documents, videos, photos and other files.



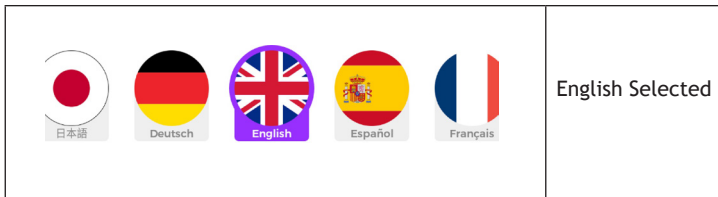


Selecting HMT-1 Interface Language

To select the user interface language,

1. Press and hold the **Action button**.
2. All the supported languages are displayed as preview, using their respective Country flags.

The device automatically scrolls down the language list and highlights one language at a time, for one second.



3. When the desired language is highlighted, release the **Action button** and the highlighted language is set as the user interface language.

Accessing Home Screen

To access the Home Screen, say “**Navigate Home**” from any application screen.

Accessing Application Launcher

You can use application launcher to view and access the applications installed in the HMT-1.

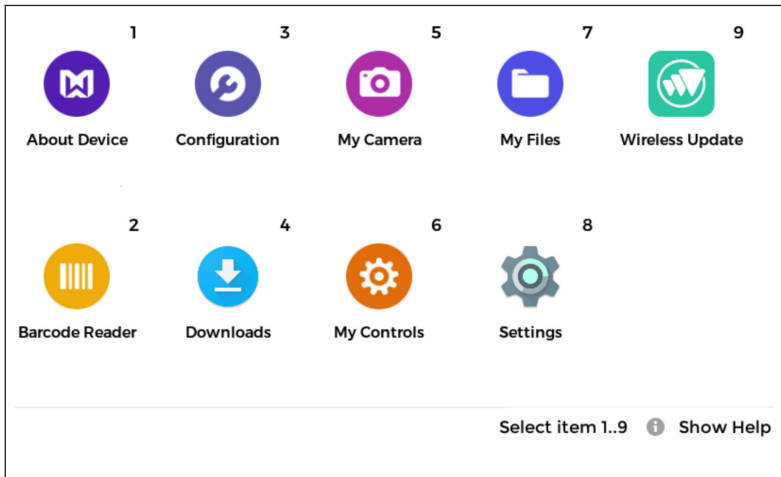
You can activate any application by just saying the application name as written underneath the application icon even if the icon is not visible due to scrolling. For example, to start the camera, say “**My Camera**”.



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You can also launch an application by saying the number associated with the application. For example, to launch an application with item number 8, you must say **“Select Item 8”**.

You can see up to 8 applications in a single screen. To scroll and view other applications, move your head to your left or right.

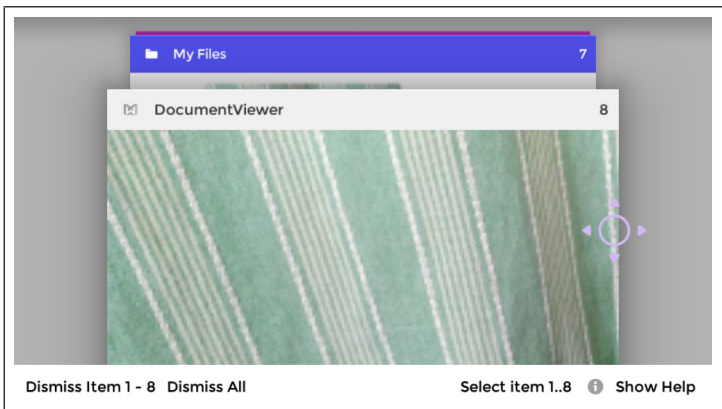




Accessing Recent Applications

You can view the list of all the applications running in the background, using the global command “Recent Applications”.

To open the applications say “Select [number associated with desired item]” or the name of the application.





Voice Command	Action
“Recent Applications”	Displays the list of all the applications running in the background, along with the item number associated with each application.
“Page Up”	Scrolls to the previous page of recent applications list.
“Page Down”	Scrolls to the next page of recent applications list.
“Select Item 1, Select Item 2, Select Item 3, ...”	Opens the application associated with the specified item number.
“Dismiss Item 1, Dismiss Item 2, Dismiss Item 3, ...”	Stops the application corresponding to the specified item number. For example, to stop the application associated with item number 5, say “Dismiss Item 5.”
“Show Help”	Displays extra commands.



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Accessing My Camera

The camera is a hands-free application for taking photographs and videos.





Camera Functions

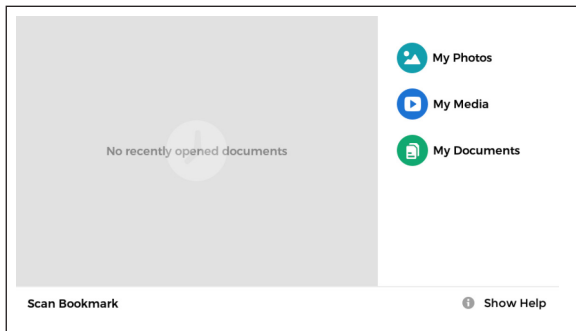
Voice Command	Action
“Zoom Level – 1 to 5”	Zooms the camera view by setting the level to specific value – 1 to 5. To set the zoom level for clear scanning say “ Zoom level 1–5 ”. For example to set the zoom level to 3, say “ Zoom level 3 ”.
“Take Photo”	Takes a photo and saves it to the My Photos folder as JPEG file. The filename saved is displayed on screen for reference.
“Start Recording”	Starts recording a video. To stop recording, say “ Stop recording ”. The recorded video file is saved as an MPEG4 file to My Media folder and the file name is displayed, for reference.
“Stop Recording”	Stops the ongoing video recording.
“Auto focus” / “Manual focus”	Sets the camera to auto focus or manual focus mode. By default, the camera is set to auto focus mode. To toggle to manual focus say “ Manual focus ”. If Manual focus is ON, a four corner bracket with an M is displayed in the lower right corner of the display screen, to indicate that the camera is in manual focus mode. In manual focus mode :— 1. To set the zoom level for clear scanning say “ Zoom level 1–5 ”. For example, to set the zoom level to 3, say “ Zoom level 3 ”. 2. Say “ Take photo ” to take a photograph or “ Start recording ” to start a video recording.
“Flashlight ON/OFF”	Switches On/Off flashlight.



Voice Command	Action
"Show Help"	Displays extra commands.

Accessing File Browser

You can view the documents, photos and video files locally stored in your HMT-1 using the file browser application.





Voice Command	Action
"My Media"	Displays files stored in the Videos folder and videos recorded using the HMT-1 camera and stored in DCIM folder. The supported file formats are: MP3, WAV, AVI, MP4, WEBM.
"My Documents"	Displays files stored in the Document folder. The supported file formats are: PDF
"Show Help"	Displays extra commands.

File Manager Functions

To select a specific file, you need to use the number assigned to it. For example, you can say "Select item 1" to select the first file, or "Select item 2" to select the second file. You can also use the filename without the extension.



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Using Media Player

If you select an audio or video file from the file manager, it is played using the media player.



Media Player Functions

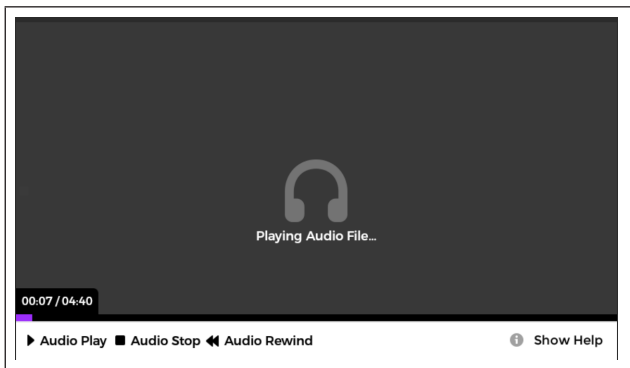
Voice Command	Action
"Video Pause"	Pauses video while playing.
"Video Play"	Plays paused video.



Voice Command	Action
“Video Stop”	Stops the video and goes to My Media screen.
“Video Rewind”	Rewinds video by 30 seconds.
“Show Help”	Displays extra commands.

Playing Audio Files

You can play audio files using the media player.





Audio Player Functions

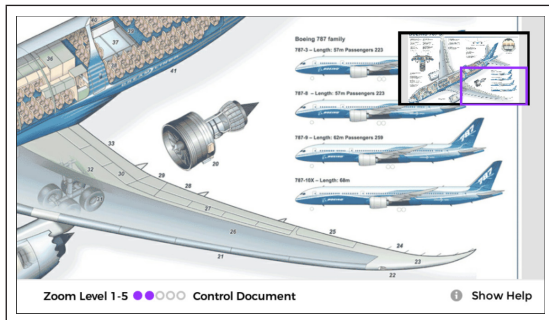
Voice Command	Action
“Audio Pause”	Pauses audio while playing.
“Audio Play”	Plays paused audio.
“Audio Stop”	Stops the audio and goes to My Media screen.
“Audio Rewind”	Rewinds Audio by 30 seconds.
“Select Volume – 1 to 5”	Sets the default volume level of the device to specified value. For example, to set the volume to 3, say “ Select volume 3 ”.
“Show Help”	Displays extra commands.



Using Document Viewer

You can open PDF files and image files using document viewer with hands-free control.

If you select a PDF or image file from the file manager, it is opened using the document viewer.



Document Viewer Functions

Voice Command	Action
“Zoom Level — 1 to 5”	Zooms the document view size by setting the level to specific value — 1 to 5.
“Freeze Document”	Prevents the document from scrolling in response to head gestures.
“Control Document”	Unfreezes the document and enables document scrolling in response to head gestures.



Using Document Viewer — Multi Page Document

To view documents with multiple pages, you need to use the following navigations controls.

Voice Command	Action
“Go to page 1, Go to page 2, Go to page 3, ...”	Scrolls to the specified page. For example, to go to page 5, say “Go to page 5”.
“Next Page/ Previous Page”	Scrolls to next/previous page.
“My Bookmarks”	Displays the bookmarks currently saved in the device, for the open document.
“Add Bookmark”	Adds a desired page as a bookmark for easier access. To add a page as a bookmark, you must go to that page and say “Add Bookmark”.
“Delete Bookmark”	Deletes the bookmark set to a desired page. To delete a bookmark, you must go to that page and say “Delete bookmark”.
“Show Help”	Displays extra commands.

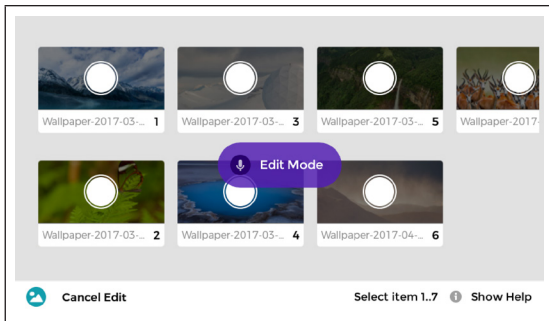
Deleting Files from File Manager

You can delete the files from My Media, My Documents or My Photos folder. To delete one or more files,

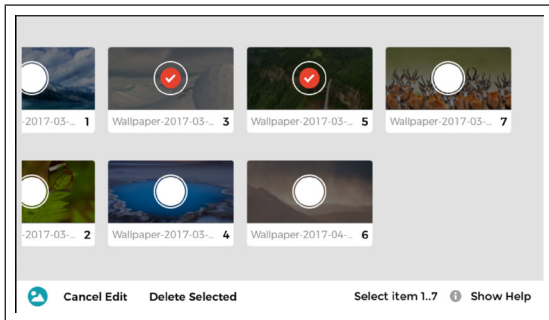
1. Go to **My Media/My Documents/My Photos** folder.
2. Say “**Edit Mode**”. The Edit screen with option to select one or more files is displayed.



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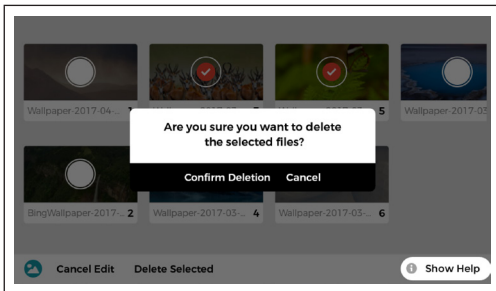


3. To select a specific file, you need to use the number assigned to it. For example, you can say “Select item 3”, to select the third file, or “Select item 5”, to select the fifth file.





4. To select all the files say “Select All”.
5. To delete the selected files, say “Delete selected” and “Confirm deletion”.



To cancel the delete and retain the files, say “Cancel”.

Using Barcode Scanner

You can use the handsfree barcode reader built-in with the HMT-1, to scan any barcode. When launched, the barcode reader scans any barcode that is detected and displays the details automatically. You can also scan bookmarks, URL and application QR codes to open the respective items.



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Voice Command	Action
“Zoom Level – 1 to 5”	Zooms the camera view by setting the level to specific value – 1 to 5 For example, to set the zoom level to 4, say “Zoom level 4”.
“Flashlight ON/OFF”	Switches On/Off flashlight.

Supported Barcode Types

The supported barcode types are – UPC, EAN, QR Code, Data Matrix, and Code 128.



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Limited Warranty and Software License

The following terms (“**Terms**”) give you specific legal rights. You may also have other rights that vary depending on local law.

Definitions

“**RealWear**” means RealWear’s designated sales entity for your region. “**Hardware**” means the RealWear HMT-1 head-mounted tablets (excluding Software). “**Software**” means any software, library, utility, tool, or other computer or program code, in object (binary) form embedded in or pre-installed on the Hardware, including any updates made available to you by RealWear.

“**Documentation**” means the Product related media, printed materials, online and electronic documentation provided by RealWear, including copies. “**Products**” means Hardware, Software, and Documentation collectively. The Products are solely for your internal use and not for resale. The Products are intended for professional use and are not marketed or promoted for consumer, non-professional, or leisure use. These Terms are the only agreement between RealWear and You regarding your use of the Products and they supersede any other terms, agreements, or documents. If you purchased through a reseller who offered additional terms, that agreement is between you and the reseller.

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Limited Hardware Warranty

- A. **Registration:** This warranty is valid only if you register your hardware within 30 days after purchase, and is non-transferrable and is limited to you, the original registered owner, unless applicable law expressly prohibits such a limitation. This is the only warranty RealWear gives for your Hardware and RealWear gives no other guarantee, warranty, or condition, express, statutory, implied, or collateral. No one else may give any guarantee, warranty, or condition on RealWear's behalf.
- B. **Express Limited Warranty:** For 1 year after the date you register the Hardware, or 15 months from the date of manufacture (if applicable law prohibits requiring registration) (the "Warranty Period"), RealWear warrants that the Hardware will be free of defects in materials or workmanship that cause it to malfunction when used in accordance with the instructions in the RealWear published instruction manual for the Hardware ("Normal Use Conditions").
- C. **Effect of Applicable Law on Limited Warranty:** If, despite the disclaimers, limitations, and exclusions in this limited warranty, applicable law gives you any implied warranty, including an implied warranty of merchantability or fitness for a particular purpose, its duration is limited to the Warranty Period, unless applicable law expressly prohibits such a limitation. This limited warranty gives you specific, limited rights. You may also have other rights under applicable law.



D. How to Get Warranty Service:

- i. Before starting the warranty process, please use the trouble-shooting tips at <http://www.realwear.com>.
- ii. If the troubleshooting tips do not resolve your problem, then follow the online process at <http://www.realwear.com>. If you do not have Internet access, you can phone +1(669) 235-5751.
- iii. Before sending your Hardware to RealWear for service, be sure to keep a copy of any data you want to save, and delete anything you consider confidential. RealWear is not responsible for your data and may erase it.

E. RealWear's Responsibility:

- i. After you return your Hardware to RealWear (at your cost, unless RealWear is required by applicable law to pay) RealWear will inspect it.
- ii. If RealWear, in its sole discretion, determines that: (a) a defect in materials or workmanship caused the Hardware to malfunction during the Warranty Period under Normal Use Conditions, and (b) none of the exclusions in Section F apply, then RealWear will (at its option) repair or replace the Hardware, or refund the purchase price to you. Unless restricted by applicable law, repair may use new or refurbished parts and replacement may be with a new or refurbished unit. RealWear's responsibility to repair or replace your Hardware, or to refund the purchase price, is your exclusive remedy.
- iii. After repair or replacement, your Hardware will be covered by this warranty for the longer of the remainder of your original Warranty Period or 95 days after RealWear ships it to you. Where required by applicable law, the original Warranty Period will be extended for a period of time equal to the time that your Hardware was in RealWear's possession.
- iv. If your Hardware malfunctions after the Warranty Period expires, RealWear provides no warranty of any kind. After the Warranty Period expires, RealWear may charge you a fee for its efforts to diagnose and service any problems with your Hardware.



F. Warranty Exclusions: RealWear is not responsible and this warranty does not apply if your Hardware is:

- i. intentionally abused or used in other than Normal Use Conditions (as determined by RealWear in its sole judgment);
- ii. used with any battery not provided by RealWear;
- iii. damaged by use with products or accessories not sold or licensed by RealWear (including, for example, software not provided by RealWear, chargers, memory cards, or other accessories not manufactured by RealWear, etc.);
- iv. opened, modified, disassembled, or tampered with (including circumvention of any security system); repaired by anyone other than RealWear or a RealWear authorized repair center; its serial number or any proprietary marking is altered or removed; or
- v. damaged by any external cause (including, for example, by being dropped, intrusion of water or other liquid, etc.; or failure to follow instructions in the instruction manual for the Hardware, for example, failure to tightly affix port covers in wet conditions, etc.).

G. Accessories and Consumable Parts:

- i. Realwear branded accessories are covered by the Hardware warranty. But batteries and soft cases are warranted for 90 days only; and
- ii. consumable parts such as foam pads, straps, hard-hat clips, etc. are not covered by warranty.



Exclusion of Certain Damages, Limitation of Liability

- A. **Exclusion of Certain Damages:** REALWEAR WILL NOT BE LIABLE FOR ANY LOST REVENUE, INCOME, PROFIT, OR SAVINGS; LOST OR CORRUPTED DATA OR SOFTWARE; LOST BUSINESS OPPORTUNITY; PROCUREMENT OF SUBSTITUTE PRODUCTS OR ANY OTHER INCIDENTAL, INDIRECT, PUNITIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THESE TERMS OR THE PRODUCTS.
- B. **Limitation of Liability:** REALWEAR'S TOTAL LIABILITY FOR ANY AND ALL CLAIMS ARISING OUT OF OR IN CONNECTION WITH THESE TERMS OR THE PRODUCTS WILL NOT EXCEED THE TOTAL AMOUNT RECEIVED BY REALWEAR FROM YOU DURING THE PRIOR 12 MONTHS FOR THE SPECIFIC PRODUCT GIVING RISE TO THE CLAIM.
- C. **Application of Limitations:** THE LIMITATIONS, EXCLUSIONS, AND DISCLAIMERS IN THESE TERMS APPLY TO ALL CLAIMS FOR DAMAGES, WHETHER BASED IN CONTRACT, WARRANTY, STRICT LIABILITY, NEGLIGENCE, TORT, OR OTHERWISE. THESE LIMITATIONS OF LIABILITY ARE AGREED ALLOCATIONS OF RISK CONSTITUTING IN PART THE CONSIDERATION FOR REALWEAR'S SALE OF PRODUCTS TO YOU, AND WILL APPLY NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY AND EVEN IF REALWEAR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LIABILITIES.

Governing Law, Dispute Resolution

- A. **Arbitration:** Any dispute relating to this Agreement ("Dispute") will be resolved by binding arbitration according to the then-current Commercial Arbitration Rules of the American Arbitration Association (the "AAA Rules"). The existence, content (including all documents and materials submitted to the arbitrators), and results of any arbitration are Confidential Information. The arbitrator will be a neutral practicing attorney or retired judge with experience in similar cases and appointed in accordance with the AAA Rules. The arbitrator must agree in writing to maintain the confidentiality of the arbitration. The arbitration will be governed by the Federal Arbitration Act, 9 U.S.C. §§1 et seq. The prevailing party will be entitled to recovery of arbitration expenses (including reasonable attorney's fees). The arbitrator's award will include provisions for this recovery. The arbitrator's award will be binding and final. Any court having jurisdiction may enter judgment upon the award. The



arbitration will be in conducted in English and held in Vancouver, WA.

- B. **Governing Law:** This Agreement is governed by, and the arbitrator will apply, the substantive laws of the State of Washington excluding its conflicts of law provisions. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement. Claims must be brought within 1 year of the date the claim arose, otherwise the claim will be permanently barred.
- C. **Class Action Waiver:** All proceedings will be conducted solely on an individual basis. No arbitration will be combined with another without the prior written consent of all parties to all affected arbitrations or proceedings. You will not seek to have any dispute heard as a class action, private attorney general action, or in any other proceeding in which you act or propose to act in a representative capacity.



Regulatory Statements

WARNING: Changes or modifications made to this equipment not expressly approved by RealWear, Inc. for compliance could void the user's authority to operate the equipment.

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.

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 of the following measures:

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



FCC Caution

1. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
3. Operations in the 5.15-5.25GHz band are restricted to indoor use only.

IC Statement — English

1. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
 - This device may not cause interference, and
 - This device must accept any interference, including interference that may cause undesired operation of the device.
2. This Class B digital apparatus complies with Canadian ICES-003.
3. This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.
4. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios.
5. The Country Code Selection feature is disabled for products marketed in the US/Canada.

IC Statement — Français

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- l'appareil ne doit pas produire de brouillage, et



- l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
- 6. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- 7. Cet appareil est conforme à la norme RSS-310 d'Industrie Canada. L'opération est soumise à la condition que cet appareil ne provoque aucune interférence nuisible.
- 8. Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.
- 9. La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

IC Statement — FOR WLAN 5GHZ DEVICE

Caution

1. Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
2. The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit.
3. The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.
4. The worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.
5. Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.



Avertissement

1. les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.
2. le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.
3. le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
4. les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, et énoncée à la section 6.2.2 3), doivent être clairement indiqués.
5. De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.



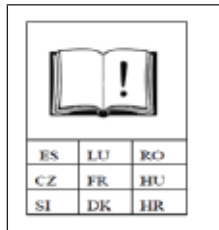
realwear

Declaration of Conformity

EU Regulatory Conformance

Hereby, we RealWear, Inc. declare that the radio equipment type T1100G is in compliance with: Directive 2014/53/EU.

Europe Restriction Symbol





realwear

Declaration of Conformity

RealWear, Inc.
1851 McCarthy Boulevard, Suite 120, Milpitas, CA 95035

Date: March 10, 2017

Declaration of Conformity

We, RealWear, Inc.,
Address: 1852 McCarthy Boulevard, Suite 120, Milpitas, CA 95035
Declare under our own responsibility that the product:

Model Name: T1100G
Intended use: Head Mounted Tablet

Complies with the essential requirements of Article 3 of the Radio Equipment Directive 2014/53/EU, if used for its intended use and that the following standards have been applied:

1. Health (Article 3.1(a) of the RE Directive)
 - EN 50360: 2001 / A1: 2012
 - EN 62209-1 : 2006
 - EN 62479 : 2010
2. Safety (Article 3.1(a) of the RE Directive)
 - EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013
 - EN 50332-2: 2013
3. Electromagnetic compatibility (Article 3.1 (b) of the RE Directive)
 - Final Draft EN 301 489-1 V2.1.1 / -17 V3.1.1 / Draft EN301489-3 V2.1.0
4. Radio frequency spectrum usage (Article 3.2 of the RE Directive)
 - EN 300 328 V2.1.1
 - Commission Draft EN 301 893 V2.0.0
 - Draft EN 300 440 V2.1.0

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