

# HMT-1 MANUAL

REALWEAR HMT-1 WEARABLE, SPEECH CONTROLLED SMART  
DEVICE WITH HD CAMERA



# TABLE OF CONTENTS:

1. Turning on the device	s.3
2. Putting the device on the head	s.4
3. Settings	s.5
4. Voice commands	s.6-7
5. Documentation	s.8-9
6. Transferring documents from HMT-1 to Computer	s.10
7. Exporting files from the computer to HMT-1	s.11
8. Casting the screen with a dongle	s.12-14
9. Service, cleaning and storage of HMT-1	s.15
10. Contact information, support	s.16

# TURNING ON THE DEVICE:

- ▶ Realwear HMT-1 device switches on and off by pressing the power button for about three seconds.
- ▶ The power button is located on the side of the device.
- ▶ When the device goes into sleep mode, it can be reactivated by pressing the power button once shortly.

# SETTING THE DEVICE ON YOUR HEAD:

- ▶ The size of the headband is adjustable. The headband has a padded backrest that is adjustable with press studs. Positioning the headband in the right place is done with a Velcro fastener.
- ▶ For open surgery, we recommend that the HMT-1 device and the headband is placed like “a sweatband”: headband placed a bit above the eyebrows and just above the ears. This enables good recording angle and the device is kept firmly in place during the operation.
- ▶ The display pod is positioned so that it does not block the camera or the user’s field of view. We recommend positioning the display pod a bit below the user’s eyes and turned to the side a bit. The display pod should be adjusted so that the user can see the screen, if needed.
- ▶ The camera, which is located on the same side as the display pod, can be turned vertically. The camera is set so that an index finger is placed on the estimated operation area, which should appear as centre to the screen as possible. Usually this means that the camera is turned as low as possible.

# SETTINGS:

- ▶ The settings of the device can be accessed with the following commands from main menu: "my programs" → "settings". Main menu is what you see turning on the device. Main menu can always be opened with the command "navigate home".
- ▶ Quick settings can be edited from any screen with the voice command "my controls" (e.g. volume and brightness)
- ▶ The settings you have set are left in the HMT-1's memory so you only need to set them once.

# VOICE COMMANDS:

- ▶ Most of the voice commands that are available are displayed somewhere on the screen. The rest of the available commands can be seen with the command "show help". The help bar can be hidden with the command "hide help".
- ▶ When selecting e.g. images, videos or applications, the voice command to be used is "select item x". X resembles the number of the item which is wanted to be chosen. (For example, "select item twenty-two"). If the number of the desired item is not visible, it can be seen with the "show help" command.
- ▶ There is a black button next to the power button. If the button is pressed for a few seconds, the language of the device changes. The device supports currently English, Spanish, French, Italian, Portuguese, Russian, Korean, Chinese, Japanese and German. If the language is changed by accident, press the black button until the desired language is chosen.

- ▶ For experienced users: if the black button is clicked three times repeatedly, the microphones on the display pod are turned off and microphones on the side of the device are turned on. The display pod can now be turned away from the user's field of view. Do not do this if you are not familiar with the commands.

# DOCUMENTATION:

- ▶ When in main menu, the camera application can be opened with the command "my camera".
- ▶ The commands that are needed most often are shown in the bottom and top of the screen of the camera application. The rest of the commands can be seen with the commands "show help" and "more options".
- ▶ Zooming: Zoom works with the command "zoom level 1-5" (e.g. "zoom level five")
- ▶ Adjusting the lightning: The exposure level can be adjusted with the command "exposure level -2-2" (e.g. "exposure level minus one")
- ▶ Taking pictures: Take a picture with the "take photo" command
- ▶ Recording videos: Start filming with "record video" and stop filming with "stop recording".
- ▶ Zooming during video recording: First stop filming, then zoom in or out and start filming again "stop recording" → "zoom level 1-5" → "record video". The exposure level can not be changed during filming, either.

▶ Other commands in the camera app:

- “Flash on/off”
- “Auto focus” / ”manual focus”
- “More options” / ”hide options”

▶ Options accessed with the “more options” command:

- “Aspect ratio” → ”16 to 9” / “4 to 3”
- “Field of view” wide/narrow
- “Image resolution” → “high/low”
- “Video resolution” → “high/low”
- “Frame rate” → “15/25/30”
- “Video stabilization” on/off

# TRANSFERRING DOCUMENTS FROM HMT-1 TO COMPUTER:

- ▶ Connect the supplied mini USB cable to the mini USB port which is on the back of the device under the rubber flap which has a picture of a battery. Plug the other end of the cable to the USB port of the computer.
- ▶ The device in the file menu in your computer is under the name “HMT-1”.
- ▶ Accessing pictures and videos taken with HMT-1: File menu → HMT-1 → Internal storage → DCIM → camera/movies

# EXPORTING FILES FROM THE COMPUTER TO HMT-1:

- ▶ Use a USB cable to connect the HMT-1 with your computer. Instruction for plugging in the cable are on the previous page.
- ▶ Copy the desired documents (e.g. X-rays, MRIs) to "documents" in HMT-1 device. "Documents" folder can be accessed: File menu → HMT-1 → Internal storage → documents.
- ▶ The documents can be accessed with the commands "my files" → "my documents" when in the home screen of the device.

# CASTING THE SCREEN WITH A DONGLE:

NOTE: REQUIRES A DONGLE WHICH IS PURCHASED SEPARATELY!

- ▶ Plug in the mini USB cable to the dongle and plug the other end of the cable to a power source. For example, the TV's USB port is suitable for a power source. The cable can also be plugged in to a socket with the supplied adapter.
- ▶ Attach the dongle to the TV monitor's HDMI port and select the corresponding HDMI port as a source. Wait until the text "ready to connect" appears on the monitor's screen. An HDMI extension cord is supplied with the dongle, and it should be used, if the dongle does not fit in the TV's HDMI port.
- ▶ Pairing the HMT-1 device and dongle for the first time:
  1. Connect the dongle to a power source and a monitor and start from the HMT-1 home screen ("navigate home")
  2. Open the settings: "my programs" → "settings"
  3. Open Network & Internet settings with the command "network and internet" and select Wireless Networks settings with the command "wireless networks"
  4. If in the top of the screen it says "Switch on", say the command "switch on". If it says "switch off", do not do anything; the setting is correct.

5. Go back twice with the command "navigate back" and open Connected devices settings with the command "connected devices".
6. Say "cast" to open cast settings.
7. If the cast settings page seems empty, say "select item two" and "select item one", so that the device is able to detect the dongle. If the page is not empty, go to the next step straight away.
8. HMT-1 device is able to cast its screen to all the devices which are visible on the Cast settings page. The dongle is identified with a number and letter sequence that starts with the letters SBWD. Make sure that the number and letter sequences on the TV monitor and on the device's screen match.
9. There are numbers on the left side of the screen. Each number corresponds to a different device HMT-1 is able to cast its screen to. Usually the number three corresponds to the dongle, but that is not always the case, if there are many available devices. Say the command "select item x". X corresponds to the dongle.
10. The HMT-1 device is now paired with the dongle. The device's sound and video are casted to the monitor to which the dongle is connected. Microphone inputs are not casted to the monitor.

- ▶ If a dongle and an HMT-1 device have been paired previously, they pair up automatically, granted that the dongle is connected to a monitor and a power source. If many dongles which are paired up with the HMT-1 are nearby, HMT-1 might pair up with a wrong dongle. If this happens, go to the cast settings and select the correct dongle.

# MAINTENANCE, CLEANING AND STORING THE DEVICE:

- ▶ Always wipe the device clean with a wet disinfective cloth after use.
- ▶ Use the mains current adapter and the USB-C cable which came in the box to recharge the device's battery. The battery can be charged either from the mini USB port or the USB-C port, which is located under the rubber flap on the same side of the camera. The battery gets charged the fastest when charged using the USB-C port.
- ▶ It is recommended to store the device, dongle, cables and adapters in the transit case of the device.
- ▶ The pictures and videos taken with the camera should be transferred to a computer at the end of the day, so that no data of the patients are left on the device unintentionally. The documents can be deleted from the device when it is connected to a computer. Also the following commands can be used: "navigate home" → "my files" → "my media/documents/photos" → ("camera") → "more options" → "edit mode" → "select all" → "delete selected" → "confirm deletion". Remember to delete the data from each folder.

# CONTACT INFORMATION, SUPPORT

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More information on manufacturers website:

<https://www.realwear.com/support>

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