

# 12 Technical Specifications

## Victor Reader Trek Specifications:

- Size: 114 x 62 x 24mm (4.5 x 2.4 x 0.9 inches)
- Weight with battery: 140g (5.0 ounces)
- 3.5mm stereo Headset jack
- Built-in mono omni-directional microphone
- Built-in 500 mW speaker
- Battery: Lithium-Ion, 3.7V nominal
- Battery recharge time: Up to 4 hours with AC adapter. May be longer with other chargers or PC recharge.
- Power Supply: Switching type AC/DC. Input 100V – 240V, 50Hz – 60Hz. Output: Type A USB socket, 5VDC, 1A
- Operating temperature range: +5 to + 40 degrees Celsius
- Battery charging temperature range : +5 to + 35 degrees Celsius
- Storage and transportation temperature: -20 to + 45 degrees Celsius
- Operating humidity: 5% to 90% (non-condensing)
- Storage and transportation humidity: 5% to 95% (non-condensing)
- Micro USB OTG compliant interface
- SD (Secure Digital) card slot supports up to 32gb SDHC cards.
- Talking Book formats: DAISY 2, 2.02 , NISO Z39.86 2002,/2005, NIMAS 1.1, unprotected EPUB 2, LGK
- Audio Codecs: AMR-WB+, mp3, MPEG2, mp4, m4a, m4v, OGG Vorbis, Wav P.C.M, Speex
- File types: 3gp, bra, brf, docx, fb2, html, m4a, m4v, mp2, mp3, mp4, mpg, OGG, rtf, SES3, txt, wav, xml, LKF
- Text-to-Speech: Acapela
- Recording: MP3 16-bit samples at a sampling rate of 44,100Hz with a bit rate of 64, 96, 128, 192 kbps, PCM 16-bit samples at a sampling rate of 44.100Hz
- DRM: 2002 PDTB1 (so-called I.P.P.) and 2006 PDTB2
- Wi-Fi: IEEE 802.11b/g/n operating in the 2.4GHz band (WEP not supported)
- Maximum SAR Value: 0.90 W/kg

### Care and maintenance

To keep your Trek clean, we recommend that you wipe the surface of the unit periodically using a soft damp cloth. Squeeze cloth to remove excess moisture. Only use warm water. Do not use any cleaning agents. The product is not intended to be disinfected.

### Storage and transportation

The product should not be folded or dismantled in storage or transportation.

The product can be carried as any electronic device in a car or plane. It does not have any specific restrictions.

### Additional information

After long exposition to the sun, the surface temperature might increase.

The product has performed immersion and electromagnetic immunity tests and should not cause any interference, or be influenced by any other product.

The product material has a V-0 level rating to ignition.

The product is designed to have a lifetime exceeding 5 years. The Battery is designed to have a lifetime of 3 years.

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## 11 Updating Trek Software

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HumanWare may from time to time offer new versions of the Trek software. There are 2 ways to update your Trek's software; wirelessly, or by downloading an update file on your SD card .

To update your Trek wirelessly, you must first have an active connection to the Internet using the built-in Wi-Fi (see section 6.7 for more information on the wireless configuration menu). Connect the Trek to a power outlet with the AC power adapter. Access the online bookcase by pressing the **Online** button. If the Trek announces that it is in airplane mode, activate the Wi-Fi by pressing and holding the **Online** button to turn off the airplane mode. The Trek will automatically check for any available update. If an update is available, press **Confirm** to start the download or cancel with any other key. The Trek will periodically announce the download status in percentage. The download time may vary depending on the speed of your Internet connection. Once the download is completed, the Trek will ask your confirmation to proceed with the update. Press **Confirm** to start the update or cancel with any other key. Again, the Trek will periodically announce the update status in percentage. Once the update is completed, the Trek will announce the new version number and power off. You may disconnect the Trek from the power outlet only after it has powered off.

You can also update your Trek by downloading a UPG software update file from the HumanWare website. Copy the UPG file to the root of an SD card. Connect the Trek to a power outlet with the AC power adapter. Power on the player and insert the card. The update will start and report the new version number that is being installed. The installation may take up to 5 minutes during which the Trek will periodically announce the update status in percentage. Once the update is completed, the player will power off. You may disconnect the Trek from the power outlet only after it has powered off. The UPG file will be automatically deleted from the SD card when you power on the Trek after performing an upgrade. To upgrade multiple Treks using the same SD card, be sure to remove the card from the upgraded Trek before turning the Trek back on.

It is not possible to update from a USB flash drive since the USB port must be connected to AC power to perform the update.

Note that a software update will also update NLS keys and Internet Radio playlists (if you have any).

- To download a book select it from the list of search results and press the **Confirm** key. The book will be downloaded and added to the NLS BARD online bookshelf and you will be returned to the list of search results making it easy to download additional books.
- The **Go To** key can be used to go directly to a specific result. Press **Go To**, enter the desired search result number, followed by **Confirm**.
- To exit the search press the **Cancel** key to go back one step or key **1** to return to the NLS BARD online bookshelf.

Downloaded books can be deleted by pressing key **3** while browsing the NLS BARD online bookshelf or while reading a book. While reading a book, key **3** can also be used to move a book from the NLS BARD online bookshelf to the talking books bookshelf on the S D card. This will add the book to your S D card and remove it from internal memory, freeing up some space for future book downloads.

When multiple items are selected for download, they will be placed in a download queue, allowing you to continue using your Trek. A notification will be sounded when a download is completed. These notifications can be configured in the General configuration menu.

### 10.3 NLS Online Authorization

When the Trek is connected to a wireless network and has Internet access, it will access the HumanWare website from the online bookcase. The Trek will check for any available NLS authorization keys (for eligible United States citizens only). If a key is found for your Trek, it will be downloaded and installed automatically.

**To move all episodes of a podcast feed to an S D card:**

- From the podcast bookshelf, press on the **4** and **6** keys to select the feed whose episodes you wish to move to an S D card.
- Once the podcast feed is selected, press on the **3** key until you receive the option to move all podcasts from the podcast feed to the S D card.
- Press the **Confirm** key to select the option.
- Press the **Confirm** key again to move all podcasts.

Note: You can only delete or move all episodes of a podcast feed when you have podcast episodes on your device.

**10.2.6 NLS BARD (*United States only*)**

National Library Service for the Blind and Physically Handicapped (NLS BARD) is a free library program of audio materials (for eligible United States citizens only). More information about NLS BARD can be found on <http://www.loc.gov/nls/bardnls/>.

You are able to wirelessly search for books and download them to the Trek. They will appear on the NLS BARD online bookshelf.

**To activate the NLS BARD online service:**

- Press the **Online** button to navigate to the online bookcase.
- Press menu key **7** multiple times to access the NLS BARD menu.
- Select the item “Add NLS BARD service” using keys **2** and **8** followed by the **Confirm** key.
- Enter your NLS BARD account email address and password. Passwords are usually case sensitive. You may toggle between uppercase, lowercase, and numeric only by pressing the Bookmark key. End your entry with the **Confirm** key.

After you have successfully entered your account information, an NLS BARD bookshelf will be added to the online bookshelves.

**To search for and download books:**

- When on the NLS BARD online bookshelf, the search can be done either by pressing the **Go To** key multiple times or by using the option that is found after the last book on the NLS BARD bookshelf when navigating with keys **4** and **6**. You can search books as on the NLS BARD website using the “Search the collection” function, which allows you to enter the author’s name, book title, key words, etc. You can also browse by category and search for the most recent or popular books, as well as the most recent magazines. You can also use the option “Browse My Wish list”, a preselected list of books and magazines that you can manage from the NLS BARD website and from your Trek. To add an item to the wish list, press the **Bookmark** key on any NLS BARD search result. To delete an item, use key **3** (Delete option) followed by **Confirm**.
- Use keys **2** and **8** to choose the search criteria followed by the **Confirm** key. The search text can then be entered using the multi-tap text entry method. After entering the search text press the **Confirm** key to begin the online search. If you have done a previous search then your search text will be retained for convenience in case you wish to refine your search.
- Use keys **4** and **6** to review the search results. Only the books available to your account will show up in the search results.
- Use key **5** to read the book synopsis if available.

predefined category searches. Use keys **4** and **6** to browse the search results, followed by **Confirm** to add a feed to your Podcasts bookshelf.

- Use key **5** to read the feed descriptions and the individual episode descriptions if available.
- You can also browse the HumanWare suggested podcasts to search for podcasts.
- In addition, you can use the “Get more episodes” option at the end of the list of downloaded episodes or on the **Go To** key rotation to download older episodes on demand.
- The **Go To** key can also be used to go directly to a specific result. Press **Go To**, enter the desired search result number, followed by **Confirm**.
- To listen to a podcast, open a feed and select an episode you want to listen to with keys **4** or **6**, followed by **Confirm**. The Trek will inform you if a podcast feed contains any new episodes. If you only want to browse the podcast feeds that contain new episodes, use keys **2** and **8**.
- To copy an episode to your Saved Podcasts folder on the S D card, press key **3** twice from your list of episodes or when playing an episode.
- To export your subscribed podcast feeds to the S D card, use the item “Export subscribed podcast feeds to S D card” from the Podcasts configuration menu. A file ending with .OPML will be created on your S D card containing all of your subscribed podcast feeds. This file can be used as a backup or for importing the list of podcast feeds in another podcast client.

Once subscribed to a feed, the Trek will automatically start downloading the most recent episodes in the background. The Trek will tag these episodes as “new” as they have never been played before. From the configuration menu, you can use the “Downloaded podcast episodes to keep” item to choose how many podcast episodes should be kept on your Trek (between 1 and 10, the default value being 3 episodes) or whether you want to keep the episodes manually only.

Note: Please note that if you have some new episodes and if you set your downloaded podcast episodes to manual only, they will be deleted from your Trek as they have not yet been saved, and no new episodes will be automatically downloaded.

When a podcast episode is downloaded, it is saved in the Trek’s internal memory. If the episode was downloaded automatically, it will also be erased automatically when enough new episodes become available, depending on the number of downloaded podcast episodes to keep you have set in the configuration menu. You can choose to make an automatically downloaded episode persistent using the “Prevent auto-delete of episode” option on key **3**. If an episode was downloaded manually, it will have to be erased manually using the key **3** “Delete” function. When select many podcasts for download, they will be placed in a download queue in the background, allowing you to continue using your Trek. A notification will be sounded when a podcast download is completed. You can configure these notifications in the General configuration menu and choose between Beep and Message (default), No notifications, and Beep Only. To unsubscribe from a podcast feed, use the option “Unsubscribe from podcast feed” on key **3**.

#### To delete all episodes from a podcast feed:

- From the podcast bookshelf, press on the **4** and **6** keys to select the feed whose episodes you wish to delete.
- Press the **3** key until you receive the option to delete all podcasts from the podcast feed.
- Press the **Confirm** key to select the option.
- Press the **Confirm** key again to delete all episodes.

#### 10.2.4 References (*Wikipedia and Wiktionary*)

When the Trek is connected to a wireless network, you will be able to search for references on Wikipedia and Wiktionary. A References bookshelf will automatically be added to your online bookcase.

##### To search for and add references:

- From the References bookshelf, the search can be done either by pressing the **Go To** key multiple times or by using the option that is found after the last book on the References bookshelf when navigating with keys **4** and **6**.
- From a book, you can also search for references on Wikipedia or Wiktionary by pressing the **Go To** key multiple times on a selected word until you hear “Search on Wikipedia” or “Search on Wiktionary”. For text books, the last word that was read will be entered in the search. You can also enter a word to search using the Multi-tap text entry method.
- If Wikipedia or Wiktionary articles contain the word you searched for, you will hear the number of definitions that were found as well as a short synopsis of the first definition found. You can scroll through the different definitions by pressing the **4** and **6** keys. You will then be asked if you want to read the complete article. Press **Play/Stop** to access the complete article or **Cancel** to return to your book.
- While reading Wikipedia or Wiktionary articles, press **Cancel** to return to your book.
- While reading a complete article, you can save it by pressing the **Manage Books** key (key **3**), followed by **Confirm**.
- Saved articles will be prefixed by “wiki” and Wiktionary articles by “wikt”, and grouped together by service (Wikipedia or Wiktionary) then by language (EN for English, FR for French, and so on). Use the **4** and **6** keys to navigate in your saved articles. You can also use keys **2** and **8** to navigate by level (service at level 1 and language at level 2).
- To go directly to a specific file, use the “Go to File” option on the **Go To** key.
- To delete an article from the References bookshelf, use the Delete function of the **Manage Books** key (key **3**), followed by **Confirm**.
- From the References bookshelf, you can also move a Wikipedia or Wiktionary article on your SD card with the Move function of the **Manage Books** key (key **3**), followed by **Confirm**.

Note: The TTS language will determine the language of the Wikipedia database that will be used for the search (ex: en.wikipedia.com, fr.wikipedia.com, etc.).

#### 10.2.5 Podcasts

When the Trek is connected to a wireless network, you will be able to access the Podcasts service, used to download and listen to audio content from podcast feeds. The Trek will automatically download the most recent episodes from every subscribed podcast feed. The first time you connect your Trek to a wireless network, it will automatically download the HumanWare podcast, which shares general information about the Trek and HumanWare. The podcast episodes that have been downloaded will be available even when the Trek is not connected to a wireless network.

##### To search for, download and listen to online podcasts:

- A Podcasts bookshelf will automatically be added to your online bookcase.
- From your Podcasts bookshelf, you can add podcast feeds either by pressing the **Go To** key multiple times or by using the option that is found after the last podcast feed when navigating with keys **4** and **6**. You can also search for feeds by title using the Multi-tap Text Entry method. Use the **Bookmark** key to toggle between Text and Numeric input types while entering your text to search. You can also browse by category using the

- You can also choose to export all your playlists to your S D card from the Internet Radio configuration menu using the item “Export all playlists to S D card”.

**To record internet radio stations:**

- While listening to a radio station, press the **Record** button to start recording the radio station.
- While recording, press **Play/Stop** to pause your recording. Press **Play/Stop** again to resume recording.
- Press **Record** again to stop recording the radio station.

Note: You can add bookmarks and save your position while recording a radio station simply by pressing the **Bookmark** button while recording.

Note: Internet radio recording parameters are the same as the External Recording parameters. External recording parameters can be accessed in the Configuration menu, but only when the standard bookcase is active.

**To access, delete, and transfer internet radio recordings:**

- From the Internet Radio bookshelf, press the **4** and **6** keys until you reach the Internet Radio Recordings playlist.
- Press **Confirm** to enter the Internet Radio Recordings playlist.
- Press the **4** and **6** keys to scroll through your radio recordings. Alternatively, you can select a specific recording by pressing the **Go To** key followed by the number of the recording, then confirm by pressing the **Confirm** key.
- Press **Play/Stop** to start listening to your selected recording.
- During playback, you can use the bookmark function in the same way as you would with any audio track (refer to Chapter 5.3 for detailed instructions on using bookmarks).
- You can delete your selected recording by pressing the **3** key once, followed by the **Confirm** key. Press the **Confirm** key again to confirm deletion.
- To move an internet radio recording to an S D card, select the recording you wish to transfer, then press the **3** key twice.
- Press the **Confirm** key to move your selected recording to your S D card, then press the **Confirm** key again to confirm the transfer.

**To delete all Internet radio recordings:**

- From the Internet Radio bookshelf, press the **4** and **6** keys until you reach the Internet Radio Recordings playlist.
- Press **3** once, then press **Confirm** to delete all your Internet Radio recordings.

**To move all Internet radio recordings to S D:**

- From the Internet Radio bookshelf, press the **4** and **6** keys until you reach the Internet Radio Recordings playlist.
- Press **3** twice, then press **Confirm** to move all Internet radio recordings to your S D card.

Notes: Because the Trek supports specific formats, the ooTunes search results may be different than with other devices (ex: iPhone). In addition, certain radio stations may not be accessible while travelling in a region that does not support them, although they are displayed in the search results. Note that you will be able to access these radio stations once you return to the region that supports them.

- To download a book select it from the list of search results and press the **Confirm** key. The book will be downloaded and added to the Bookshare online bookshelf and you will be returned to the list of search results making it easy to download additional books.
- To exit the search press the **Cancel** key to go back one step or key **1** to return to the Bookshare online bookshelf.

Downloaded books can be deleted by pressing key **3** while browsing the Bookshare online bookshelf with keys **4** and **6** or while reading a book.

While reading a downloaded Bookshare book, key **3** can also be used to move a book from the Bookshare online bookshelf to the talking books bookshelf on the SD card. This will add the book to your SD card and remove it from internal memory, freeing up some space for future book downloads.

### 10.2.3 Internet Radio

When the Trek is connected to a wireless network, you will be able to access a collection of playlists containing Internet Radio stations. The Favorites playlist, where all your bookmarked stations are saved, appears on the Internet Radio bookshelf once you save a station. The HumanWare playlist always appears on the Internet Radio bookshelf and offers a sample list of stations. The selected HumanWare playlist is based on your country or region of purchase and can be changed in the online configuration menu. The Internet Radio Recordings playlist contains all your radio recordings. This playlist is only available when there are radio recordings on your device.

The Internet Radio bookshelf also allows you to search for radio stations by name or genre. The Trek supports ooTunes, an Internet Radio service allowing you to search for radio stations and add them to your Favorites playlist.

#### To search for Internet Radio stations:

- From the Internet Radio online bookshelf, the search can be done either by pressing the **Go To** key multiple times or by using the option that is found after the last playlist on the Internet Radio bookshelf when navigating with keys **4** and **6**. You can search on ooTunes by browsing by genre or searching by name.
- Use keys **2** and **8** to select the search method (Name or Genre) followed by the **Confirm** key. The name search is done by entering the text to search. Use the Multi-tap text entry method to enter the text, and press **Confirm** to initiate the search.
- To search by genre, you can browse the different genres with keys **2** or **8**.

#### To navigate through and listen to Internet Radio stations:

- From the Internet Radio bookshelf, use the keys **4** and **6** to navigate by playlist. Once you select a playlist with **Confirm**, you can search and navigate through the radio stations using keys **4** or **6**. The number of the current station will be announced, followed by its name.
- The **Go To** key can be used to go directly to a specific station. Press **Go To**, enter the desired station number, followed by **Confirm**.
- Press **Play/Stop** or **Confirm** to start listening to the station.
- Press **Play/Stop** again to stop listening to the station.
- If you use the **4** or **6** keys while playing a radio station, the next or previous station will start playing immediately.
- You may press the **Where Am I** key **5** to announce additional information about the station.
- The **Bookmark** key will allow you to save the current station to your Favorites after pressing **Confirm**.
- You can remove the current station from the playlist by pressing key **3**. Press **Confirm** to remove it or press the **Star** key to cancel deletion.
- To export a playlist to your SD card, use key **3** option "Export playlist to SD card" from a selected playlist.

**Go To** key and selecting the item “Add NFB Newsline Publications”. Navigate through the list of publications with keys **2** and **8**, and press the **Confirm** key to subscribe to the new publication.

If you wish to save a copy of a publication it is possible to use the copy function of key **3** when reading the publication to copy it to the Talking Books bookshelf of the SD card. It is not possible to delete publications from the NFB Newsline online bookshelf as the automatic synchronization will remove old editions and add new ones as they become available. You can choose to make a NFB book persistent by using the “Prevent auto-deletion of an NFB Newsline issue” option on key **3**. To unsubscribe from a publication, use the “Unsubscribe from an NFB publication” option on key **3**. A confirmation prompt will ask you to confirm before unsubscribing from your publication, press the **Confirm** key to confirm or any other key to cancel. Note that this will remove all books for this publication from internal memory, including books that were marked as persistent.

From the NFB Newsline configuration menu, you have the option of choosing how often the Trek downloads new content with the item “Get latest editions”. You can choose to have new content downloaded “Always” (default), which can be up to several times a day, or “Once daily”.

### **10.2.2 Bookshare**

Bookshare is an online library of copyrighted content for people with qualifying print disabilities. More information about Bookshare is available from <http://www.bookshare.org>

You are able to wirelessly search for books and download them to the Trek. Books are downloaded in DAISY text format and appear on the Bookshare online bookshelf. Newspapers and magazines are currently not available in the online search.

#### **To activate the Bookshare online service:**

- Press the **Online** button to navigate to the online bookcase.
- Press menu key **7** several times to access the Bookshare configuration menu.
- Select the item “Add Bookshare service” using keys **2** and **8** followed by the **Confirm** key.
- Enter your Bookshare account email address and password. Passwords are usually case sensitive. You may toggle between uppercase, lowercase, numeric only by pressing the **Bookmark** key. End your entry with the **Confirm** key.

After you have successfully entered your account information, a Bookshare bookshelf will be added to the online bookcase.

#### **To search for and download books:**

- When on the Bookshare online bookshelf the search can be done either by pressing the **Go To** key twice located above bookshelf key **1** or by using the option that is found after the last book on the Bookshare bookshelf when navigating with keys **4** and **6**. You can search books by title, author, full text search, and category. You can also search for the most recent or popular books.
- The **Go To** key can also be used to go directly to a specific result. Press **Go To**, enter the desired search result number, followed by **Confirm**.
- Use keys **2** and **8** to choose the search criteria followed by the **Confirm** key. The search text can then be entered using the multi-tap text entry method. Use the **Bookmark** key to toggle between Text and Numeric input types while entering your text to search. After entering the search text press the **Confirm** key to begin the online search. If you have done a previous search then your search text will be retained for convenience in case you wish to refine your search.
- Use keys **4** and **6** to review the search results. The book synopsis is available when reviewing the list of search results by pressing the “Where am I” key **5**. Only the books available to your account will show up in the search results.

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## 10 Trek Wireless Features

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When you press the **Online** button located in the centre of the top key row, the Trek will switch between the standard bookcase, online bookcase, and Orientation mode. The airplane mode turns off all wireless communication from the Trek and should be activated when you travel by airplane. Turning off the airplane mode will therefore allow wireless communication. Press and hold the **Online** button to turn the airplane mode on or off. Note that GPS still works while in airplane mode. If you are not using the online bookcase, it is best to leave the airplane mode turned on as it will reduce battery consumption. Press the **Online** button to toggle between the online bookcase, the standard bookcase, and Orientation mode.

### 10.1 Online Check for Updates

When the Trek is connected to a wireless network and has Internet access, it will access the HumanWare website from the online bookcase. The Trek will check for any available software updates and will prompt you to download and install them automatically. This automatic check for updates can be disabled from the Software Updates configuration menu. You can also choose to check for updates manually from the same menu, and the Trek will immediately check for any available updates. See chapter 9 (Updating Trek Software) to learn how to update your Trek wirelessly.

### 10.2 Online Services

#### 10.2.1 NFB Newsline

In the United States, the National Federation of the Blind (NFB) provides a service that allows you to receive accessible newspapers and magazines in DAISY format that is called NFB Newsline.

For more information, visit:

<http://www.nfbnewslineonline.org>

To begin receiving NFB Newsline publications on your Trek, you will need to set up your FAVORITES list for the content that you want to have delivered to your device. If you have not yet set up a Favorites list, you will need to login to NFB NEWSLINE ONLINE at

<http://www.nfbnewslineonline.org>

and select the link to MANAGE ALL YOUR FAVORITES. Select MANAGE YOUR FAVORITE IN YOUR POCKET PUBLICATIONS and add your desired newspapers and magazines. There is no limit as to the number of IN YOUR POCKET publications you may have.

#### To activate the NFB Newsline service:

Make sure your Trek is connected to a known wireless network. Press the **Online** button to access the online bookcase. Press the **Menu (7)** key several times to access the NFB Newsline menu. To add the NFB Newsline service, select the item “Add NFB Newsline service” and press **Confirm**. You will then be prompted to enter your NFB Newsline member ID and PIN each followed by the **Confirm** key. After you have successfully entered your account information an NFB Newsline online bookshelf will be added to the online bookcase.

Whenever an active Wi-Fi connection is available, the Trek will now automatically synchronize the latest editions of your selected favorite publications and will automatically remove older editions. The NFB Newsline service determines which editions of each publication are available for synchronization. It is possible to check for any updated content on demand at any time by selecting the “Synchronize NFB Newsline Content” item which can be found after the last publication on the NFB Newsline bookshelf when navigating with keys **4** and **6**, or by pressing the **Go To** key twice. From your NFB Newsline bookshelf, you can add a new NFB Newsline publication by pressing the