



International  
**Orientation & Mobility**

Online Symposium

Figure 1: International Orientation and Mobility Online Symposium Logo, Sun encircled in a compass with arrows pointing up, down, left, and right.

**Date: January 25, 2018**

**Time: 10:45-11:45PM EST**

**Title: Using Victor Reader Trek as a Mobility Tool**

**Presenter: Martin Griffiths, Product Manager, Victor Reader Range, Humanware, London**

Description: Participants will gain information about Humanware's newest technology, Victor Reader Trek. There will be a live demonstration and Q&A. Stay tuned for the full description.

# Using Victor Reader Trek as a Mobility Tool

*Martin Griffiths, Humanware, London*

## **Agenda**

- What is the Victor Reader Trek
- Hardware
- Orientation mode
- Same familiar Breeze
- Victor Reader functionality
- Trek simplicity
- Usage scenario's
- What's in the box?
- Why a Trek over a Smartphone?
- A bright future

## **What is the VictorReader Trek?**

- All-in-one device combining the popular VictorReader Stream and Trekker Breeze
- One simple device to navigate one's environment or the latest best seller
- Familiar VictorReader interface makes it even easier to obtain environmental information



**Figure 1 Victor Trek Reader**

## **Hardware**

- Exact same Stream button interface
  - More tactile recognition for certain buttons
- Headphone / microphone jack similar to that found in today's smartphones
- Significantly improved processor over that found on either the existing Stream or Breeze
  - Faster processing of downloads, map info and environmental data
- Slightly thicker profile to accommodate GPS hardware
- 12-15 hour battery life
- Bluetooth chip
- Vibration motor
- FM Radio (To be activated in a coming update)

## Same familiar Breeze

- Trek while in orientation mode provides all Breeze functionality
- Simple to access where am I function
- Drop voice tagged landmarks anywhere and get turn by turn directions to get back. (Virtually impossible to get lost)
- Enter an address and Trek will navigate you there either by walking or while in a vehicle
- Know what is around you always with POI searches and notifications

## Orientation mode (Breeze)

- Tap an additional time on the online button and Trek will enter Orientation mode
- Now using maps from Tomtom supporting entire country map data. (No more state by state regions)
- Stream buttons make it easier to navigate while on the go
  - 5 key = “Where am I” in both book reading and orientation mode
  - Bookmark = landmark in orientation
  - Enter addresses easier with the telephone keypad
- Significantly improved GPS chip with improved connectivity time and accuracy
- Extra outdoor volume levels for outside usage



Figure 2: Victor Reader Breeze

## VictorReader functionality

- Exact same functionality as Stream
- All online / offline book reading, downloading and media playback
- Now with Bluetooth integrated users can listen to books, podcasts, or internet radio from their powerful Bluetooth speakers
- Improved headphone / mic jack allows for volume control and play / stop from one's headphones if such features are supported by the headset



Figure 3: Victor Reader Trek

## Trek simplicity

- All you need to do is switch Trek on
- Then go for a walk
- Trek will tell you where you are
- Trek will tell you what streets are approaching
- Trek will tell you what landmarks are around
- Trek will tell you what direction you are travelling and how far you have travelled
- Trek will tell you how to walk back the exact same way you just came (backtrack feature)

### Scenario 1 – Recording a landmark.

- Go to the place where you want to record the landmark
- Press the Bookmark (5) button
- Speak into the Trek ( for up to 4 seconds)
- landmark is now recorded



Figure 4: Victor Reader Trek

### Scenario 2 – Recording a route.

- Go to the place where you want to start the route
- Press and hold the Bookmark (5) button
- Press confirm (#)
- Speak into the Trek (4 seconds) to name route
- Walk route for as long as required
- Press and hold the Bookmark (5) button to end route recording
- This route will be saved and can be followed exactly in the future



Figure 5: Victor Reader Trek

### Scenario 3 – Searching for points of interest.

- Press and hold button 5
- POI's in immediate vicinity will be listed for you
- To perform an extended search press left arrow (4) and then the confirm button (#)
- You can then choose from 11 categories including the “all” category.
- Press confirm (#) and you will be presented with the 50 closest items.



Figure 6: Victor Reader Trek

### What comes in the box?

- Victor Reader Trek device (Country map preinstalled)
- Carrying case with belt clip.
- Headphones with in-line controls and mic
- Long micro USB cable
- Short USB cable for thumb drive or cartridge access
- AC adaptor
- Getting started key description sheet

## **Benefits: Why a Trek instead of a Smartphone?**

- Battery life!
  - Depending on use case, users can see 17 hours of playback with all radios disable.
  - GPS orientation users can expect a day's use
- Trek has a consistent tactile interface in both modes
  - Same buttons do the same thing in both book reading and Orientation
- One handed operation while using a traditional O&M tool. Tap or tap and hold with one finger
- Device designed to provide relevant info for a blind person
- No cell plan necessary

## **A bright future**

- Device supports the latest iBeacon technology for future software updates to include indoor navigation where available
- GPS chip supports upcoming Galileo Navigation network expected to be available in the next couple years
  - Galileo will greatly improve the location precision available to civilians
  - Supports the Glonass satellite structure
- WIFI chip allows both software and map updates to be directly downloaded to Trek.
  - No more map manager!

# Texas School for the Blind and Visually Impaired

## Outreach Programs



Figure 6 TSBVI logo



This project is supported by the U.S. Department of Education, Special Education Program (OSEP). Opinions expressed here are the authors and do not necessarily represent the position of the Department of Education.

Figure 7, IDEAs That Work logo and OSEP disclaimer