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
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](image)

**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](image)

**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](image)
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.

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

Figure 7, IDEAs That Work logo and OSEP disclaimer