

Project name:

**Adult education in assistive technologies  
for hearing-impaired people (HIP)**

Acronym: **ASSIST HIP**

Project number: **2018-1-CZ01-KA204-048059**

Name of IO3 project ASSIST HIP output:

**User manual for interactive catalogue of assistive  
technologies with search engine**

Characteristics of the material for IO3 Project ASSIST HIP:

**Basic instructions for using the interactive catalog of  
assistive technology, which is the IO3 output of this project.**

Note: The material is available “on-line” in English and in the  
national languages of all three partner countries.

## **Introduction**

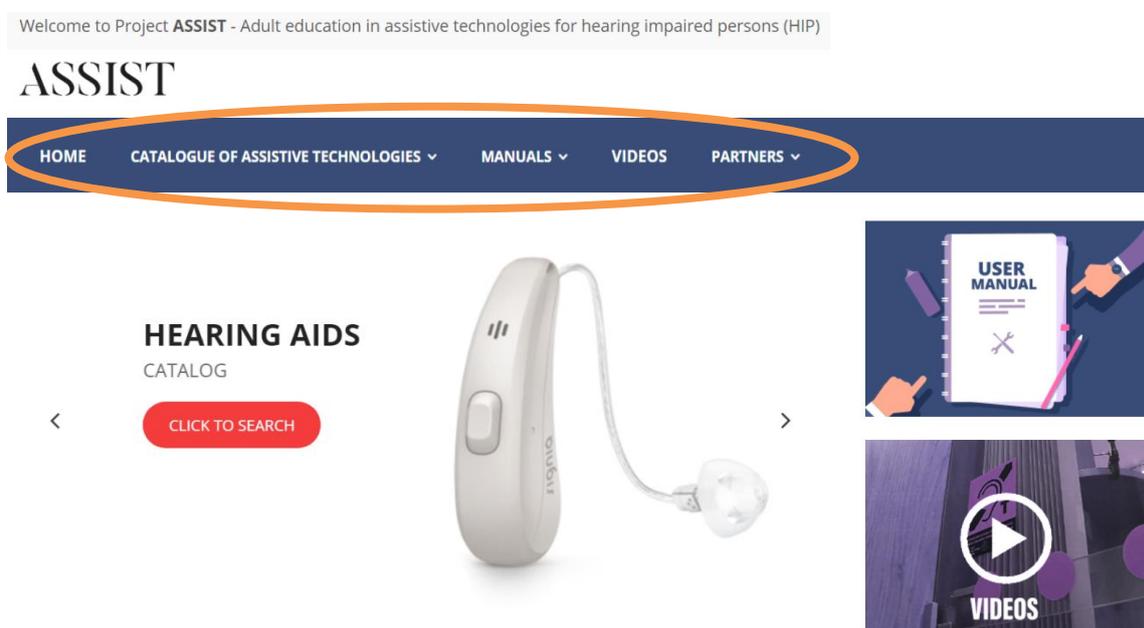
*Like other software tools designed for user-friendly searching in large compilations containing variously broken down and structured information, the search engine created as part of the IO3 output is aimed at optimizing search mechanisms from the user's perspective. Besides offering an intuitive search engine, this user manual should serve this purpose. All four groups of assistive technology are described here, including hearing aids, other assistive and communication devices, applications for smart phones (Apps) and induction loops or hearing loops. First, the procedures for optimizing the selection of hearing aids are described here in detail, then comes the procedure for choosing the right product from other assistive and communication devices, where the evaluation criteria is naturally different from hearing aids. While we optimize the selection of the right hearing aid by, for example, combining the evaluation criteria "performance", "degree of hearing loss", and "type of embodiment", we can optimize the selection of other assistive and communication devices with the criteria "transmitter", "babysitter" and "working radius".*

*As for the remaining two groups of assistive technologies – applications for smart phones (Apps) and induction loops – it is impossible to devise such a comprehensive catalog useful for these groups over the long term. The reasons for each of these two groups are different (see page 9 and 10 – that part of the manual dealing with Apps and induction loops). The catalogue therefore offers a choice of applications in these groups that represent particular trends in real time and are meant to provide basic orientation for users in this regard.*

*It should be noted that the authors of the catalog have sought to maximize user comfort. The question is whether they have they been successful in their effort.*

The search engine allows you to select from a catalog that contains 83 types of hearing aids of various embodiment, performance, design, etc.; 48 assistive devices for PWD using a whole range of ways to get important information to PWD in real time despite their hearing impairment (blinking, vibration, premium enhanced sound, etc.); 18 applications for smart phones good for or intended directly for PWD; and 10 listening devices using induction loops. It also allows you to select assistive devices or technology that best fit your needs and possibilities. The above list of items in the interactive catalog is only a fraction of what the market for assistive and communication devices and technologies currently offer. But to a certain extent it is a representative selection to help guide the users of this catalog in this regard.

Using the interactive menu in this catalog:



The blue bar at the top of the screen has the main MENU. It contains 5 items:

Home page

Catalogue of assistive technologies

Manuals and methodologies

a) IO1 Guide to the world of assistive technologies for primary lectures

b) IO2 Programme of educational activities for project target groups

c) IO3 **User manual for interactive catalogue of assistive technologies with search engine**

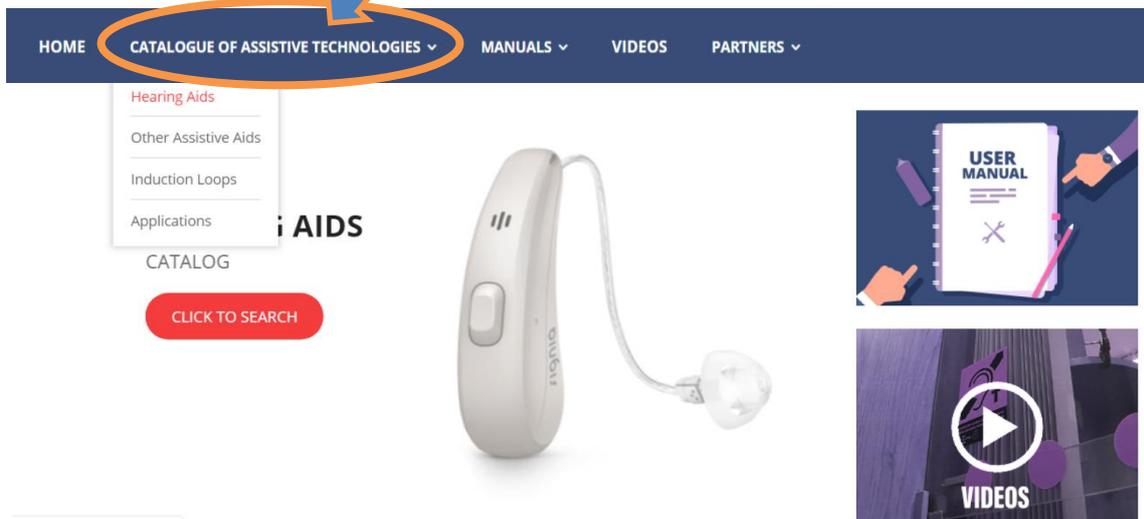
Video material (model situations and instructional videos)

Brief information about the project partners

To begin searching in the catalogue, click **“Catalogue of assistive technologies”** in the main MENU.

Welcome to Project ASSIST - Adult education in assistive technologies for hearing impaired persons (HIP)

## ASSIST



[media.cz/assist-en/www/aidfilter/](http://media.cz/assist-en/www/aidfilter/)

It will open up with the following drop-down stack:



4

Select the desired group of assistive or communication devices and technologies by clicking on the appropriate item in the drop-down stack.

Let's choose the group HEARING AIDS.



The main page of the interactive search program appears. On this page, which is the communication point for determining the optimal filter, you can click the criteria you want the search program to use to “serve up” the device or technology that best suits your expectations and needs.

## Hearing aids

### FILTER ITEMS

Power type:	<input type="checkbox"/> LP=LOW POWER	<input checked="" type="checkbox"/> SP=STANDARD POWER	<input type="checkbox"/> UP=ULTRA POWER		
Fit for hearing loss:	<input type="checkbox"/> MILD	<input checked="" type="checkbox"/> MODERATE	<input type="checkbox"/> SEVERE	<input type="checkbox"/> PROFOUND	
Types of cases: (Style)	<input checked="" type="checkbox"/> BTE	<input type="checkbox"/> ITE	<input type="checkbox"/> CIC	<input type="checkbox"/> RITE	<input checked="" type="checkbox"/> RIC
T- coil:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO			
Bluetooth connectivity:	<input type="checkbox"/> YES	<input type="checkbox"/> NO			

In our example we have chosen the filter:

Performance: SP = Standard power

Hearing loss: moderate = 40-60%

Type of embodiment: RIC = receiver-in-canal

T coil = receiving a signal transmitted by an inductive loop or telephone

After clicking the above requirements, the search program has offered us these hearing aids:

If we zoom with the mouse on the selected hearing aid, "DETAILS" will appear.

Orion 2 RIC 312  
Digital  
| MODERATE |  
SEVERE

Clicking the Details button will expand a more detailed description of the selected hearing aid. It contains this information:

Type of hearing aid, manufacturer (and contact), description of what the hearing aid is for and how to optimize its use, accessories, any additional information, and important information about suppliers in the partner countries. Most items usually include a typical indicative price.

HOME CATALOGUE OF ASSISTIVE TECHNOLOGIES MANUALS VIDEOS PARTNERS



## Orion 2 RIC 312

Catalogue code: 1.58

**Types:**  
 Power types: SP  
 Fit for hearing loss: moderate to severe  
 Types of cases: RIC, MBTE  
 Process: DIGITAL

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**Producer:**  
 Signia GmbH Henri-Dunant-Strasse 100 91058 Erlangen Germany

**Brief description:**  
 The Orion™ 2 family offers all the hearing aids - RIC, both hanging and ear canal. High resolution, suppression Feedback and routing ensure all models are of high quality speech comprehension and a comfortable listening experience adapted to preferences and user needs.

**Accessories:**  
 Specific noise reduction program  
 Reduce wind noise  
 Wireless  
 Hearing Aid App  
 FM Compatible  
 Telecoil  
 Tinnitus Program  
 Volume Control

**More informations:**

**Supplier for the Czech Republic:**  
 Sivantos s.r.o.  
 Molákova 576/11  
 186 00 Praha 8 – Karlín  
 Czech Republic

**Supplier for Austria:**  
 Sivantos GmbH  
 Henri-Dunant-Str. 100,  
 91058 Erlangen - Germany

Common price CZ (Kč): 10 000

Common price AUT (EUR): from 300€

Common price SL (EUR):

The lower left corner of the search program will automatically offer **TECHNICAL SPECIFICATION**

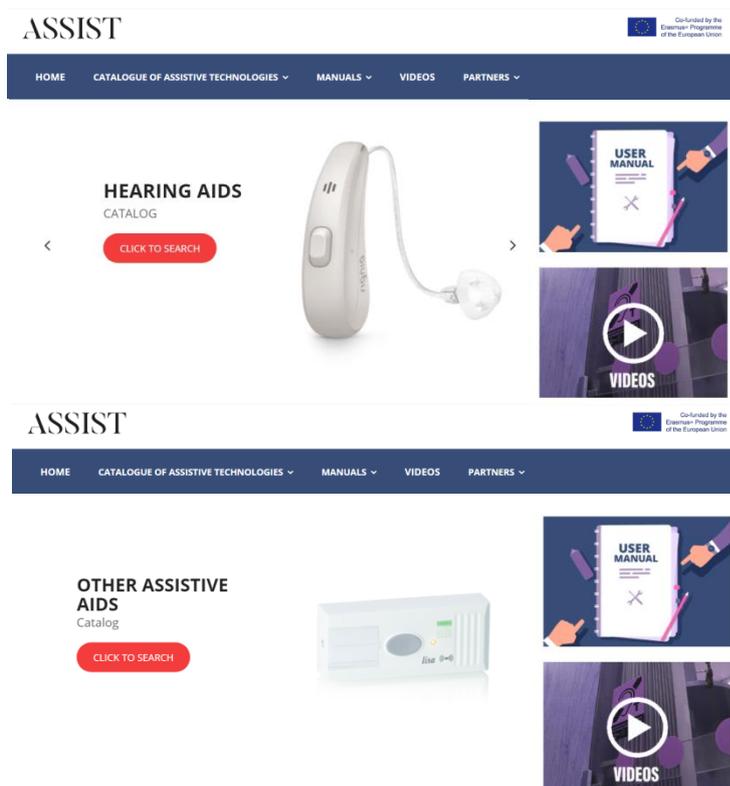
TECHNICAL SPECIFICATION:

Model: Digital output  
 miniReceiver 2.0 S 45/108 dB  
 miniReceiver 2.0 M 60/119 dB  
 miniReceiver 2.0 P 70/124 dB  
 miniReceiver 2.0 HP 75/130 dB  
 Frequency Channels: 16  
 Number of Programs: 4  
 Directional microphones  
 Volume Control possible  
 Touchcontrol App for Apple devices  
 Touchcontrol App for Android devices  
 EasyTek App for Apple devices  
 EasyTek App for Android devices  
 Hearing Aid Coating: IP67 dust and water resistant certified  
 Nano coated  
 e2e wireless 3.0  
 T-Coil  
 Suppression of feedback  
 Battery type 312

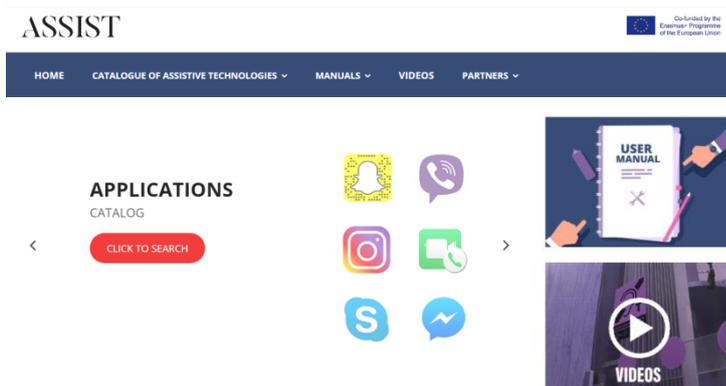
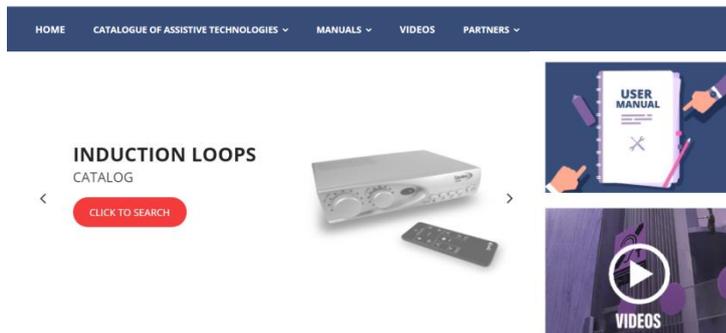
The number of items we choose in the specification filter will narrow the final selection. It is possible that in some cases none of the 83 types of hearing aids contained in this catalog will satisfy the combination of requirements you provided<sup>\*)</sup>. We therefore recommend using 2, maximum 4 criteria in the filter. This will enable the search program to offer you more suitable hearing aids, some of which may inspire you beyond what you thought was the ideal solution before using this catalog. The basic criterion for the optimal choice of hearing aid should be the level of hearing loss (MILD=10-40%, MODERATE=40-60%, SEVERE=60-80%, DEEP=80-95%) to be matched against the desired output of the hearing aid (LP = low performance, SP = standard performance, UP = ultra performance) and the type of embodiment that the user of the hearing aid prefers (**CAREFUL – The chosen type may not be suitable for a particular user, so the specialist must ultimately decide about the type of hearing aid**). These criteria may be supplemented with, e.g. price. The price range of hearing aids is on the order of thousands to tens of thousands of crowns. So for many users the price can play a big role in making their decision.

**CAREFUL – The hearing aids chosen by this interactive catalog according to the user's requirement are only suggestive, meant to help the hearing aid wearer or professional consultant-audiologist navigate the offers currently available in individual partner countries (Czech Republic, Austria and Slovenia). When actually selecting a hearing aid, it is necessary to consult a specialist on the choice!!!**

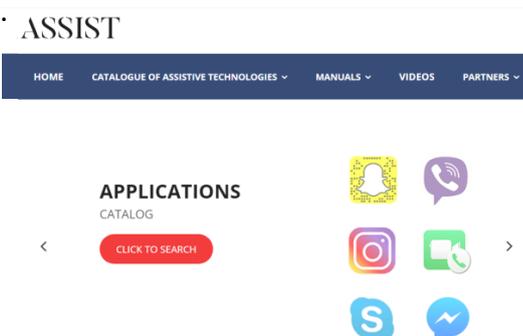
Getting into the search mode directly from the homepage is possible without using the search menu described above. The main part of the screen shows a dynamic banner offering the possibility of choosing the category of assistive devices. It has 4 forms:



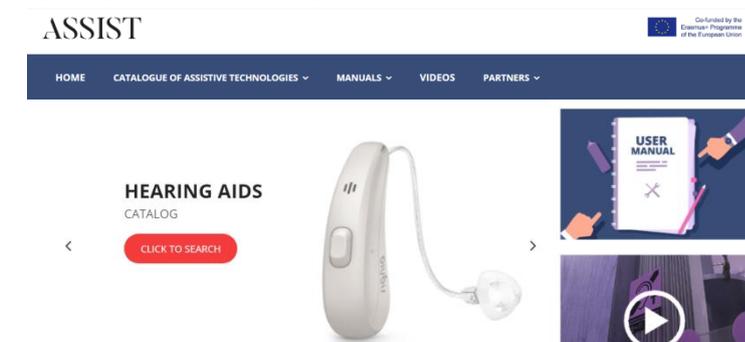
<sup>\*)</sup> This does not mean that such a hearing aid does not exist, but it is unusual and therefore has not been included in this catalog. If you insist on your requirements, you will have to search for such hearing aid on the Internet by yourself or visit a professional consultant.



The offer of individual categories regularly alternates. You need only wait a few seconds until the category you want to work with appears or the banners can be moved by clicking on the sliding button.



For example, if we want to go back to HEARING AIDS from the offer of applications for smart phones (APPLICATIONS), we click 3 times to slide left or one time to slide right. This takes us back to to the menu for HEARING AIDS.



Clicking **CLICK TO SEARCH** will take us to the page that lets us set up the required parameters of the search filter. The next procedure is the same as described above.

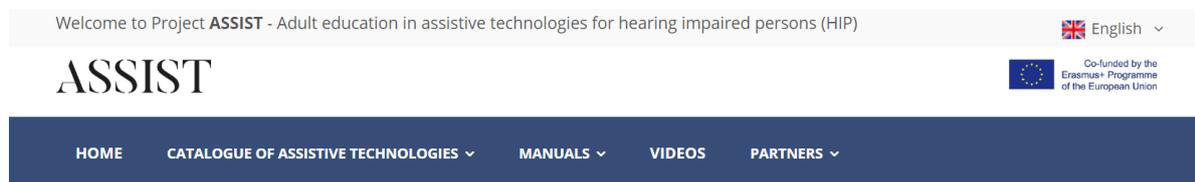
If we want to choose another category like OTHER ASSISTIVE AIDS, we use either the link to the main MENU (blue bar) and subsequent drop-down menu



or the moving banner on the immediate menu.



The page for choosing the search engine filter criteria is obviously different from the filter for HEARING AIDS because there are other evaluation criteria for the category of assistive devices called OTHER ASSISTIVE AIDS.



## Other assistive aids

### FILTER ITEMS

Transmitter	<input type="checkbox"/> smoke alarm	<input checked="" type="checkbox"/> babysitter	<input type="checkbox"/> door bell	<input type="checkbox"/> telephone	<input type="checkbox"/> other
Receiver	<input type="checkbox"/> vibration	<input type="checkbox"/> flash	<input type="checkbox"/> alarm clock	<input type="checkbox"/> pager	<input type="checkbox"/> universal
Working radius	<input type="checkbox"/> 50	<input type="checkbox"/> 100	<input type="checkbox"/> 150	<input type="checkbox"/> 200	<input checked="" type="checkbox"/> more then 200 m
TV	<input type="checkbox"/> stethoscop	<input type="checkbox"/> headset			
Features:	<input type="checkbox"/> assistive amplifier	<input type="checkbox"/> Bluetooth conectivity	<input type="checkbox"/> USB conection	<input type="checkbox"/> T coil	<input type="checkbox"/> Other device

As an example of the search function for the category OTHER ASSISTIVE AIDS, we have chosen 3 criteria: "Transmitter", "Babysitter" and "Working radius" of more than 200m. The search engine has offered us the following solutions:

 <p><b>AVISO BEE Signaling system</b> <b>AVISO BEE BABY transmitter</b></p> <p>Catalog code: 2.05</p>	 <p><b>Baby monitor</b> <b>Transmitter</b></p> <p>Catalog code: 2.25</p>
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If you hold the mouse on the selected product, the Details button appears. After clicking it, the search engine offers us a more detailed description of the equipment and technical specifications.

<p>HOME CATALOGUE OF ASSISTIVE TECHNOLOGIES ▾</p>  <p><b>AVISO BEE Signaling system</b> <b>AVISO BEE BABY</b></p> <p>media.cz/assist-en/www/other/show?pollid=5</p>	<p>HOME CATALOGUE OF ASSISTIVE TECHNOLOGIES ▾ MANUALS ▾ VIDEOS PARTNERS ▾</p> <p><b>AVISO BEE Signaling system</b></p> <p>Catalog code: 2.05</p> <p>Types AVISO BEE BABY transmitter</p> <p>Producer ghe-ces electronic ag, Homelstrasse 17 CH - 8636 Wald ZH - Switzerland</p> <p>Brief description Sensitive AVISO BEE BABY pick baby voice and transmit signal to receivers (AVISO BEE FLASH, AVISO BEE FLASH - K, AVISO BEE VIB e.t.c.)</p> <p>Operating system Hardware H2 / Software revision V3.xx</p> <p>Accessories Adaptor 9W/360mA</p> <p>More informations When it is used with AVISO BEE VIB, it must be used also AVISO BEE FLASH</p> <p>Supplier for the Czech Republic Unie neslyšících Brno, sociální podnik, s.r.o. Palackého třída 114, tel:54124321, mob:725605216, email:polacek@pomuckyproneslyšici.cz</p> <p>Common price CZ (Kč): 2 990,- Kč Common price AUT (EUR): 115,- EUR Common price SL (EUR):</p>
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We proceed identically for using the category INDUCTION/HEARING LOOPS and APPLICATIONS.

In the INDUCTION/HEARING LOOPS category, there is a selection filter that limits the number of criteria because, with the exception of compact portable induction loops in the so-called “counter” or “home” design, equipping the space with a quality induction loop

entails a collection of several technical devices (microphone or other sound sensor, loop amplifier, the actual loop + control elements or software, etc.) that are configured according to the specific conditions of the space to be sounded by the induction loop. The specific design of such equipment should be done by an expert who can address various sources of interference, the loss of signal due to metal structures, etc. In this catalog you can more or less navigate the devices that represent each basic group of elements needed to set up an induction loop in the hall or outdoor design.

The situation is similar in the category APPLICATIONS. The speed of development in this field is enormous and compiling a catalog with long-term informational value is impossible. Even the applications used for a long time in smart phones are continuously updated, meaning modified, and this changes their technical parameters and controls. So in the Apps category this catalog provides only an indicative overview of the basic categories of Apps. It can help beginners with basic orientation and comfortably show them everything that can be done, controlled, communicated, etc., using Apps. The motivation to choose Apps for this catalog was the desire to offer at least one sample application for each of the most common areas where smart phones help people with hearing impairments overcome communication and information barriers.

The authors of the catalog have tried to create a product that would be user-friendly and largely intuitive to use. They do not aim to create a comprehensive e-shop, which under clearly given conditions would offer everything that is part of assistive technology. The aim has been to provide persons with hearing impairments and their consultants, associates, family members, etc., clear, basic and understandable information about what is currently happening in this dynamically developing field.