ELECTRONIC TOUR GUIDE

features and technical specification

The interactive GPS audio-book "The Electronic Tour Guide" is designed for free walks accompanied by audio content linked to the geographical location, direction and pace of the listener. The implemented algorithm builds a real-time nonlinear narrative, taking into account the parameters of the walk (such as speed, direction, continuity, sequence of locations and others) .

Application scope

The device is ideal for tourist city-walks (both solo and in small groups). Additionally, the audio content can be adapted for use in games and other activities involving GEO location. Indoor and proximity location are available as extensions as well (see details below).

Features of the algorithm and specifics of content

Due to the specifics of the algorithmic solution, the content must be prepared and structured in accordance with technical requirements (that are provided once the license is purchased). It is possible to adapt existing audio content designed for the standard "geo-trigger" tourist audio applications as well. However, "standard" audio content will require refinement and probably additional recording to fully unravel the potential of the device.

It is possible to customize the algorithm and hardware to the specifics of your project, including the supplementation of a GPS module with alternative sensory system (e.g. NFC / RFID, IR or Radio Beacons receiver for use indoors, such as in museums, exhibition halls etc.).

Main features

● Additional messages (context prompts and suggestions of alternative directions etc.)
● Complete audio interface. Status messages accompanying actions such as switching between languages and giving information about battery level, satellite signal statement etc.
● Language switching
● Topic switching. The listener can change the topic and select a program to their taste.
● Simple navigation. The device stores up to four points at a user's request and, once the navigation function is activated, it suggests the direction and distance to these reference points periodically.
● Localization on the map. The device can link the current location to a map grid (e.g. for printed maps adaptation).
● For group or family use, the device can be additionally equipped with a built-in or external transmitter and radio phones.
● Built-in audio-content protection

The interface functions can be expanded or modified for your specific requirements.

Technical specifications

Maximum volume of audio-content …...................................... 32 GB (up to 64GB on demand)
Max playing time (at 128 kb/s compression / 64GB) .... up to ~1100 hours of continuous playing
Max data rate (standard version of hardware)......................... 192 kb/s stereo (HiFi)
Phone connector ….. 3.5 mm jack
Physical size / weight .... 20 x 58 x 84 mm / ~60g
Operating time when fully charged (new battery) ….............. 7.5 – 8.5 hours (depending on the intensity of using)
Standard charging time …... 6 hours (can be reduced to 2 hours on demand)

The devices can be equipped with a portable USB charging adapters (+ usb-jack converter) or 10 units splitters on demand.

Complete license options (ETG Map Creator Toolkit, ETG Supervisor)

● ETG Map Creator Toolkit / Map Editor – access to the set of tools for map and content images creating. Including:
● Virtual map tester (device + MCT functionality) – testing of updated data-images on real hardware
● Semi-automated audio data binding. Automated watermarking and image assembling
● Statistical analyzer – anonymous tracks, logs and precision data visualizer

● ETG Supervisor (additional option) – the server-side solution for rental control ("city network of booking points" model).