

# Sensotec



## **Go-box** Spoken TV subtitles

Reads TV subtitles aloud

# Go-box 1.0

Spoken Subtitles

v010 September 29 2023  
subject to any changes

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voice enabled by Acapela

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# 1 INTRODUCTION

This user manual describes the installation and operation of the Go-box: a HDMI monitoring device developed especially for people with a reading impairment. It enables you to hear the subtitles that are encountered in the video and are then read out. The device has only a few settings and all feedback is spoken. It is therefore possible to operate the device entirely by touch and hearing. This makes it an innovative and convenient device for people with a visual disability or for elderly people without any computer skills. A computer is not needed and the Go-box is very easy to use. An Internet connection is also not required, although Internet may be useful to have available for automatic updates.

The Go-box is placed 'in between' the HDMI cable. The TV is usually connected to the external decoder by such an HDMI cable. This cable going into the Tv is now inserted in the Go-box, which in its' turn is then connected back to the TV with the cable that is included in the box. Use the 'decoder' remote to switch between TV-channels as you are used to.

## Safety

**Intended use:** Converting visible subtitles in HDMI signal to audible text.

**Intended medical indication:** To aid blind and visually impaired patient.

**Intended user:** Blind and visually impaired patient, from age of 12 years. Possible installation help by relatives, friends etc.



**Intended use environment:** Home environment, daily life environments.

**Intended patient:** Same as the intended user. Except for relatives, friends etc.








**Intended use conditions:** Intended to be used in normal indoor conditions. Intended normal operation of use 0-8 hours daily.



**Storage conditions:** See chapter Specifications

### Symbols table:

	Manufacturer
	Do not dispose of this product in unsorted municipal waste stream



	<p>Catalogue number</p>
	<p>Serial number</p>
	<p>Conformité Européenne (European Conformity). This symbol means that the device fully complies with applicable European Union Acts.</p>
	<p>Federal Communications Commission. This symbol means that the device fully complies with applicable United States Acts.</p>
	<p>Complies to regulations that limit or ban specific substances</p>
	<p>Medical Device</p>
	<p>Read the instructions in this manual</p>

	Potential non-harmonized frequency
	Safe storage temperature

**Disposal:** Please offer the Go-box, accessories and AAA-cells separately at your local waste and recycling point.

**Report safety issues and damage:** Please report any safety issues to us and your local authority. Please consult us before use when the package, device or accessories show any damage, or is unintentionally opened before use and if the packaging is exposed to environmental conditions outside of the specifications (see chapter Specifications).



## *What is in the package*

The package includes the following:

- Go-box with 5V adapter
- HDMI cable
- USB headphones dongle
- remote control + AAA-cells
- manual



## *The serial number*

The serial number. This 5-digit number preceded with a capital G (e.g. G12345) can be found on the type plate on the bottom panel of the Go-box, on the outside of the package and in the spoken settings menu. This serial number is important for any support questions.

## *Standalone or Webbox extension*

The Go-box can either be bought as a standalone unit or as an extension for a Webbox. The latter version needs to be connected to the internet for interaction with the Webbox, for extended support and frequent software updates and will only work with a valid Webbox subscription.

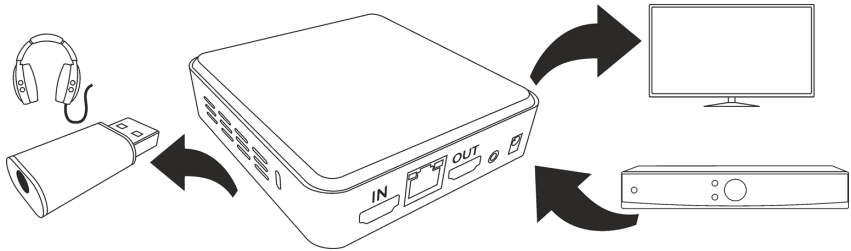
## 2 SETTING UP THE GO-BOX

The Go-box merely needs power and a video source to start reading subtitles to you. This is described in the 'Basic setup' example below. Some other examples that may better suit your environment or your needs are also described.

### *Basic setup*

This example describes the use of:

- a TV-setup box (or other video-source)
- a TV for the video and audio
- headphones + USB dongel for the spoken subtitles



Take the TV-setup box HDMI cable out from the TV and insert that in the HDMI-IN connector of the Go-box. Make sure that the resolution is set to HD quality (1920x1080). Use the included HDMI cable to connect the HDMI-OUT connector to a HDMI input on the TV. Insert the 3.5mm jack-plug of the headphones (or deaf loop

system) into the USB dongel and stick that into one of the USB connectors of the Go-box. Use the 5V adapter to power the Go-box from a wall-socket.

Set the TV to the correct HDMI input (a.k.a. source) to watch the signal from the TV-settop box. The Go-box may briefly show the Solutions Radio or Sensotec logo and a bootup splash screen. It will then let you hear spoken subtitles coming out the TV. If not: press the [Speech] button on the remote control to toggle the 'speech-output' between TV and headphones.

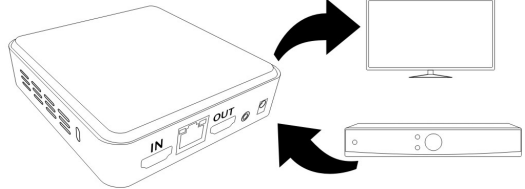
Tip: The USB dongel's 3.5mm audio-connector can also connect to a deaf loop system for your **hearing aid**. Please ask your hearing care professional for advise.

Tip: The USB dongel's 3.5mm audio-connector can also connect to the base-station of a regular **wireless headset** (a.k.a. RF-headphones).

## *Bluetooth headphones*

The Go-box can also use bluetooth headphones instead the ones with a cable.

The bluetooth headphones must initially be coupled (paired) with the Go-box: Set the



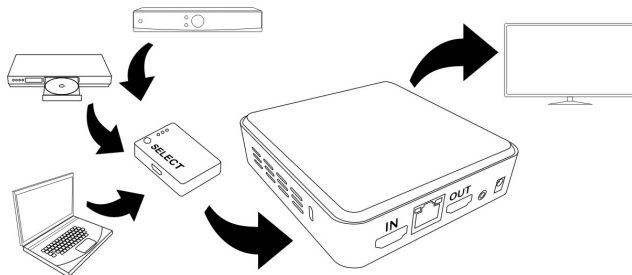
headphones into pairing mode (see their manual). Press the [Menu] button of the remote control and choose 'Bluetooth'. The name of your headphones should now show in the list of 'detected devices'. Select that name and press [OK]. Press the [Speech] button on the remote control to toggle the 'speech-output' between TV and headphones.

## *Multiple video sources*

The Go-box analyses the video coming in his HDMI-input to detect the subtitle texts. Swapping cables to this input can be a temporary solution to use the Go-box with multiple video sources, but the following description explains how to use a so-called HDMI switch. Such a switch is not included with the Go-box, but can be bought in any electronics- or computer-store.

Make sure that the resolution of each video source is set to HD quality (1920x1080).

Take the 3 HDMI cables out from the TV. Insert them into the inputs of a HDMI selector and connect the output to the HDMI-IN connector of the Go-box. Use another HDMI cable to connect the HDMI-OUT of the Go-box to one of the HDMI inputs on the TV. Set the TV to the correct HDMI input to watch the signal from the TV-settop box.



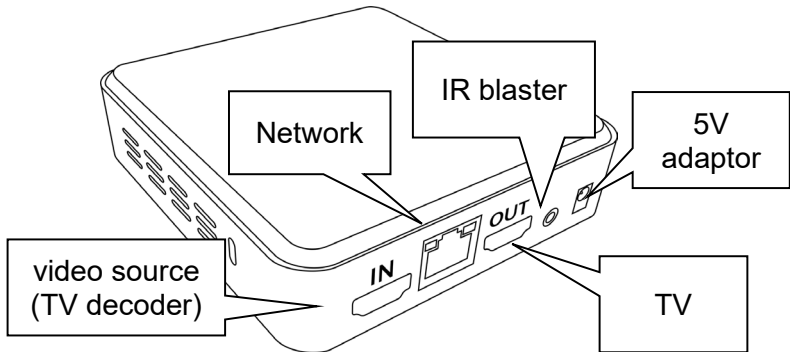
The HDMI switch can now select which video source needs to be passed through the Go-box to the TV (see also the manual for your HDMI switch).

### 3 THE EXTERIOR

#### *Rear side*

The rear-side has five connectors. From left to right (when the rear is facing towards you):

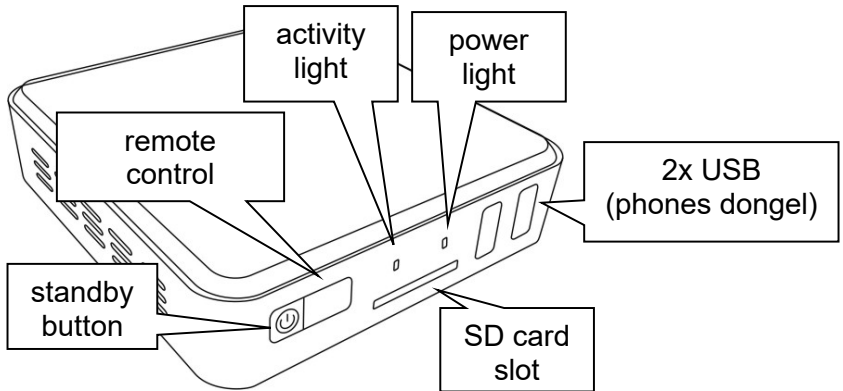
- **HDMI-input** connector for the HDMI cable coming from a video source like a DVD-player
- **network** connector for a network cable to your local network
- **HDMI-output** connector for the HDMI cable to your TV
- **IR-blaster** (not used)
- **power** connector (1.3x3.5mm) for the adaptor in a wall-outlet



## *Front side*

The front side has the following features from left to right:

- Standby button
- Remote control receiver
- SD card slot
- Activity light
- Standby/power light
- two USB connectors (to connect phones dongle)





## *Remote control*

The remote control has 13 buttons.

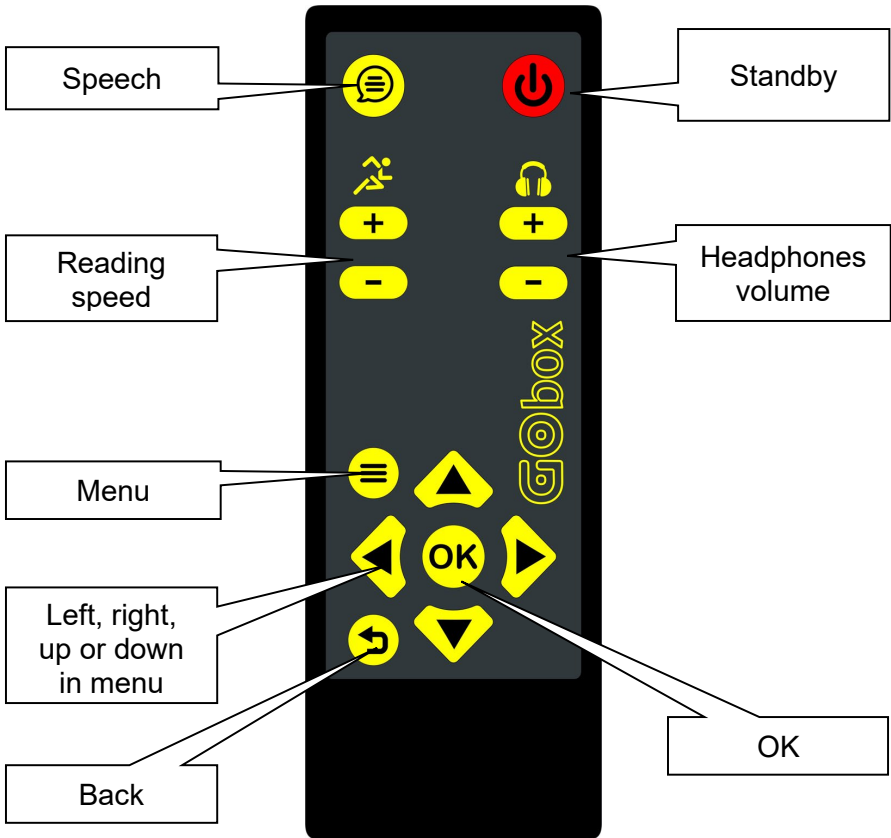
The [**Speech**] button is located in the top left corner and directs the the spoken subtitles to either the TV speakers or to the headphones+Webbox.

The [**ON**] button is located in the top right corner. This button will either switch the Go-box off (standby) or switch it on again.

Just below these buttons, there is a pair of [**Speed**] buttons along the left side to set the speed at which the voice reads the subtitles. Another pair along the right side control the **volume** of the headphones.

The bottom half has 5 buttons in a diamond shape of which the middle button is the [**OK**] button to select an option in the menu. The surrounding 4 buttons are for navigating **up**, **down**, **left** and **right** through the menu.

The two final buttons to the left of this diamond shape are for either entering the [**menu**] (the top one) or going [**back**] out (the bottom one).



## **4 HOW TO USE**

The Go-box will automatically switch ON when it detects a video-signal on its' HDMI input. You can also press the ON button on the remote control.

### *Select the speech destination*

Press the [speech] button on the remote control in the upper left corner to switch the speech to the connected headphones or back to the TV.

### *Adjust the reading-speed*

Some programs or movies have so many subtitles that you need to let the synthetic voice inside the Go-box read them to you a bit faster to keep up.

You can find a pair of buttons on the left side of the remote control that control this speed. Press the upper [speed+] button to increase and the lower [speed-] to decrease the reading speed.

## *Adjust the headphones-volume*

You can connect headphones to the Go-box either with a cable (3.5mm jack plug in the USB dongle that came with the unit) or through bluetooth.

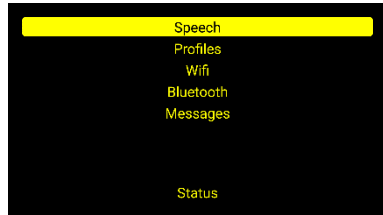
You can find a pair of buttons on the right side of the remote control that control the headphones volume. Press the upper [volume+] button to increase and the lower [volume-] to decrease the volume.

Tip: The mix of the spoken subtitles versus the TV-audio can be controlled in the menu Speech - Volume (which is independent from the headphones-volume).

## 5 MENU

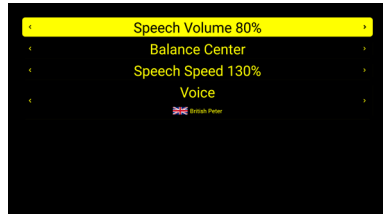
The Go-box menu allows you to change usually one-time settings. Press the [Menu] button (left to the [Up] button) and then use the [OK] button to choose from:

- Speech
- Profiles
- Wifi
- Bluetooth
- Status



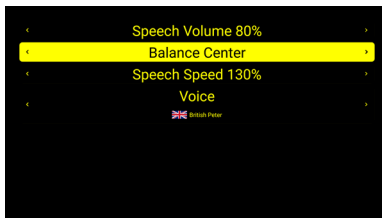
### *Menu - Speech - Volume*

The spoken subtitles will be played at a certain volume compared to audio volume in the video. Use the [Left] and [Right] buttons for the right setting (e.g. 50%) and then press [Menu] or [Back] to exit the menu. Note: the original TV-audio volume will be decreased during spoken subtitles.



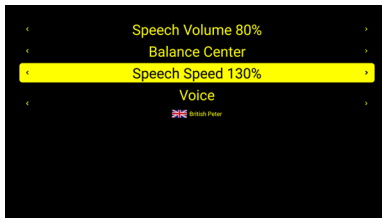
## *Menu - Speech - Balance*

The voice that reads the subtitles can be heard on both sides or just on the left or on the right speaker/earshell. Use the [Left] and [Right] buttons for the right setting instelling (e.g. center) and then press [Menu] or [Back] to exit the menu.



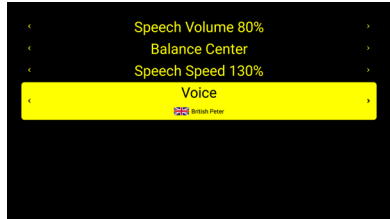
## *Menu - Speech - Speed*

The voice that reads the subtitles can be set to a higher or lower speed depending on your preference or on the speed of texts showing on the TV. Use the [Left] and [Right] buttons for the right setting instelling (e.g. 120%) and then press [Menu] or [Back] to exit the menu.



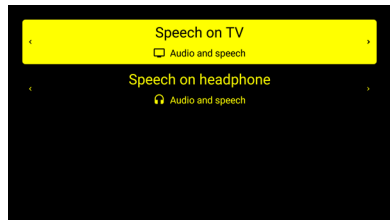
## Menu - Speech - Voice

The voice that reads the subtitles can be selected, e.g. to select a male voice instead of a female voice. Use the [Left] and [Right] buttons for the right setting instelling (e.g. Rachel) and then press [Menu] or [Back] to exit the menu.



## Menu - Profiles

The [Speech] button in the upper left corner of the remote control can switch the destination of the spoken subtitles (to the TV-speakers or to the headphones). Both of these destinations has its' own profile to hear either only speech or a mix of speech and TV-audio.



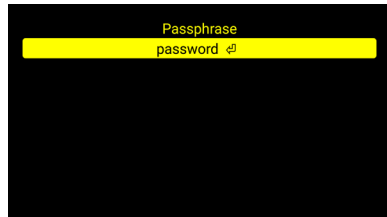
## Menu - Wifi

The Go-box can be connected to the internet so that it can for instance download available software updates. This can be done either directly via a network cable to the router of your internet-provider, or through its' wireless network.

Select your network name (a.k.a. SSID) from the list, press the [OK] button and enter the passphrase (a.k.a. WPA-key).



Entering your password (WPA-key): use the [up] and [down] buttons to first browse through the lower case alphabet, then the capital letters, then the digits some special characters like “exclamation mark” or “space” ending with the character called “ready”. Press the [OK] or [RIGHT] button when you found a correct character.



Press the [BACK] or [LEFT] button to correct a false character. You need to add the character “ready” to confirm the password followed by the [OK] or [RIGHT] button.



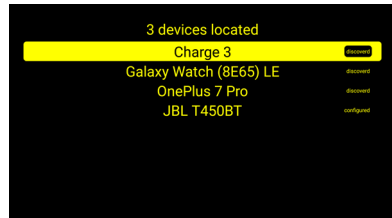
The text 'configured' will now appear next to your network name. You may want to refresh the list by pressing [BACK] and choosing 'Wi-Fi' again to see if 'connected' will appear.

Tip: How to remove a network configuration: go to the 'Wi-Fi' menu and move the yellow bar to the configured network that you want to remove and and press the [BACK] button for 3 seconds.

## *Menu - Bluetooth*

Make sure that your bluetooth device is in so-called 'pairing mode' (see its' manual). The Go-box starts looking for bluetooth devices that are in 'pairing mode' when you open the Bluetooth menu.

Select your device and press the [OK] button. A spoken message saying "... connected" will be heard on your bluetooth device. Press [Menu] or [Back] to exit the menu.



Tip: How to remove a bluetooth configuration: go to the 'Bluetooth ' menu and move the yellow bar to the configured bluetooth device that you want to remove and and press the [BACK] button for 3 seconds.

## Menu - Status

The Status menu shows you the state of the license and some system details like the video quality of the decoder (x1080 preferred) software version and serial number.



## 6 FREQUENTLY ASKED QUESTIONS

Should you have any questions or problems with the Go-box, please read the following frequently asked questions first:

- **Why are not all words in the subtitles read to me or do I only hear some fragments?**

The video quality (resolution) of your decoder may not be set correctly yet. Enter the decoder's settings menu and set the video quality to 1080p or 1080i.

- **Can also use the Go-box when I just have a TV without an external decoder or other video-source?**

The Go-box can not function when the video is generated within the TV e.g. with a CI+ module or using the on-demand functions of the smart-TV. Ask your cable-TV-provider for an external decoder to do the same.

- **Can I also use a deaf-loop system to listen to the Go-box with my hearing-aid?**

You can connect your deaf-loop system to the 3.5mm phones-socket like you would connect it to your TV. Some other hearing-aid systems have a so called 'streamer' that can connect to the Go-box like bluetooth headphones.

- **The green light does not light up on the Go-box, when I switch on the TV and the decoder. What do I do?**

Check if the mains adapter has been connected correctly. If it has: Check that other devices that have been connected to the same electric socket are also functioning. The Go-box also needs at least one of its' HDMI connector to see an

active device, so make sure the decoder and TV are connected properly and switched ON.

- **I also watch on-demand like Netflix or HBO. How does that work with the Go-box?**

The easiest way is to get a decoder from your TV-provider that can also stream such services so that the video automatically passes through the Go-box. A second option would be to start the on-demand service on your smart-phone or PC and then stream it to a Chrome Cast connected to the Go-box. A third option is to connect your PC to the Go-box directly with a HDMI cable.

- **How do i zapp through the TV channels?**

You change TV-channels as you are used to with the remote control of your decoder. The Go-box needs to triggers for that... it will simply continue to read subtitles from the next channel that passes through the HDMI cable.

- **Can I also use my satellite-TV provider instead of cable-TV?**

Yes you can also use a satellite decoder as long as it has an HDMI output at resolution 1080.

- **The subtitling is not being spoken even though it is visible on the television screen.**

You may need to press the [speech] button in the upper left corner of the remote control to switch between TV-speakers and headphones.

## 7 SPECIFICATIONS

### *Network*

protocol	IPv4 and IPv6
Ethernet	10/100/1000M interface
connector type	RJ45 with cable-detection
WLAN/WiFi	IEEE802.11ac (2.4GHz + 5.0GHz)
encryption	WEP, WPA-TKIP, WPA2-AES, WPS-PB

### *USB*

- 1x USB v2.0 high-speed type A
- 1x USB v3.0 full-speed type A

### *SD*

- 1x SD slot (class 2,4,6) SDSC, SDHC (max. 32GB)

### *HDMI*

- The HDMI interface supports HDCP v2.0
- 1x HDMI input + 1x HDMI output (for HD, full-HD or 4K TV)

### *Headphones*

- |                  |   |
|------------------|---|
| connector type   | Mini stereo jack 3.5mm (via USB dongel) |
| adjustable level | 2x 100 mW (2x 8 Ohm)                    |

- Bluetooth v4.2 Class2, A2DP profile

*General*

Power	5.0V-2A (1.3x3.5mm DC plug) 100-240 V, 50-60 Hz adapter included
Remote Control	13 buttons, 140x49x20mm, 2xAAA-battery
Operational temp.	-10°C to +40°C
Storage temp.	-20°C to +60°C
Dimensions	100x106x28 mm
Weight	204g
Approval	CE, FCC

This Go-box is supplied to you by:

Do you have technical or practical questions about this product? You can't find the answer in this manual?

Then our Service & Support colleagues are here to help you!

## **Service & Support**

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