LOW VISION INTERNATIONAL

User Manual

MagniLink Vision BASIC TTS

CE

LVI Low Vision International

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Table of contents

1 About LVI 1

2 Introducing MagniLink Vision TTS 2

3 Information 4
3.1 Reuse, installation and maintenance 4
3.2 Cleaning 4
3.3 Safety information 4

4 Unpacking 6
4.1 Packaging 6

5 Accessories 7

6 Installation 8

7 Use 10
7.1 Panels 10
7.1.1 5 Press 10
7.1.2 3 Rotate 12
7.2 Reading table 12
7.3 Profiles and settings 13
7.4 Simple profile 14
7.4.1 Quick guide simple profile 14
7.4.2 Functions in simple profile 15
7.5 Advanced profile 16
7.5.1 Quick guide advanced profile 16
7.5.2 Functions in advanced profile 17
7.5.3 Describing functions in advanced profile 17
7.6 Settings 21
7.6.1 Quick guide settings 21
7.6.2 Functions in settings 22
7.6.3 Describing the settings options 22
7.7 Quick guide computer mouse 26
7.8 Computer mouse 26
7.9 Extra voices on a USB stick 27
7.10 Quality of OCR conversion 27

8 Ergonomics 28

9 Troubleshooting 29

10 Technical information 30

11 Declaration of Conformity 32

1 About LVI

LVI Low Vision International AB was founded in 1978 and is one of the world's leading manufacturers of equipment for persons with visual impairments. Development of new products takes place in close cooperation with users and professional staff within the low vision rehabilitation industry. LVI is quality-certified in accordance with ISO 9001 and environmentally-certified in accordance with ISO 14001.

The information in this manual has been carefully checked and is believed to be accurate. However, LVI assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will LVI be liable for direct, indirect, special, exemplary, incidental, or consequential damages resulting from any defect or omission in this manual. In the interest of continued product development, LVI reserves the right to make improvements in this manual and the products it describes at any time, without notice or obligation.

2 Introducing MagniLink Vision TTS

Thank you for choosing this video magnifier. Our aim is for you to be satisfied with your choice of supplier and reading aid.

MagniLink Vision TTS is a combined reading camera and reading machine. The reading camera includes features such as autofocus, several artificial colours and the potential to set the magnification. The reading machine makes it possible to OCR-process a text and have it read aloud.



The system is available in the following models.

Model	Camera	Screen	Control panel
MLVBASIC-S24-TTS	FHD	24"	5 Press
MLVBASIC-S27-TTS	FHD	27"	5 Press

MLVBASIC-S24-TTS-3V	FHD	24"	3 Turn
MLVBASIC-S27-TTS-3V	FHD	27"	3 Turn

CE	The systems complies with all CE certification requirements for medical devices in accordance with EU regulation 2017/745.

MD Medical Device	The MD symbol indicates that the product is a medical device in accordance with Regulation (EU) 2017/745 (MDR).

FC	The product complies with all applicable requirements of the FCC rules.

3 Information

3.1 Reuse, installation and maintenance

The device may only be technically overhauled and prepared by an authorized company. Re-use may only be carried out after appropriate inspection and cleaning / disinfection.

3.2 Cleaning

Before equipment cleaning and maintenance note:

- Disconnect the device from the power supply before cleaning.
- Use a slightly damp (not wet) cloth and a cleaning / disinfectant agent intended for monitors and computers.
- Do not allow any liquids to enter the device.

3.3 Safety information

- Only use the power adaptor supplied with the product. Using an incorrect type of power adapter may cause damage to the system.
- Never operate the product if it has been exposed to water or other liquids. Damaged or wet product can cause electric shocks or fire.
- Place the power cord in such a way that you can neither trip over it or that crush damages can occur.
- Place the system at least 10 cm from the edge of the table. When moving the reading table, make sure your hands are not below or behind the reading table, as there is a risk of your fingers becoming trapped. When the reading table is in its outermost position, an excessive load can cause the system to tip over, resulting in personal injury.
- If the system has to be moved, do not lift at the screen or reading table as these are moving parts.
- If the product is moved from the cold into a warm room, condensation (moisture) can form inside the unit or on the camera lens. To prevent problems with condensation, the apparatus should be installed in the room at least 30 minutes prior to usage.
- If the system requires cleaning, detach all cables. Use a slightly damp (not wet) cloth to clean the system. Only use water or cleaning / disinfectant agent intended for monitors and computers.

- Do not rely 100 per cent on the results of an OCR conversion; the OCR engine can misinterpret the text. This is particularly important to bear in mind when processing sensitive information such as a medical prescription.
- Serious incidents that have occurred in connection with the product shall be reported to the manufacturer and to the competent authority in the Member State where the user is established.

If in doubt, contact your supplier.

Warning
The product is supplied packed in a plastic bag. To avoid risk of suffocation, keep the bag out of the reach of children and infants.

4 Unpacking

The system is supplied in a box with the following contents:

- Combined reading machine and reading camera
- User Guide
- USB memory stick
- Power adaptor
- Hand control

Check first that the box has no external damage. In the event of damage, contact the delivery company and file a notification of damage.

Open the box and take out the MagniLink Vision; remove the packaging.

4.1 Packaging

The packaging consists of the following packaging material (LVI recommends that the packaging be kept in case you have to return the system or you need to move it):

- Packing material (EPP)
- Box (corrugated cardboard)
- Polyethylene (LDPE4)

For sorting and collection of packaging material, please call the packaging collection customer service department for information on the rules that apply in your municipality.

Note that the product and its accessories must be recycled as electronic waste. A worn-out battery is recycled as electronic waste.

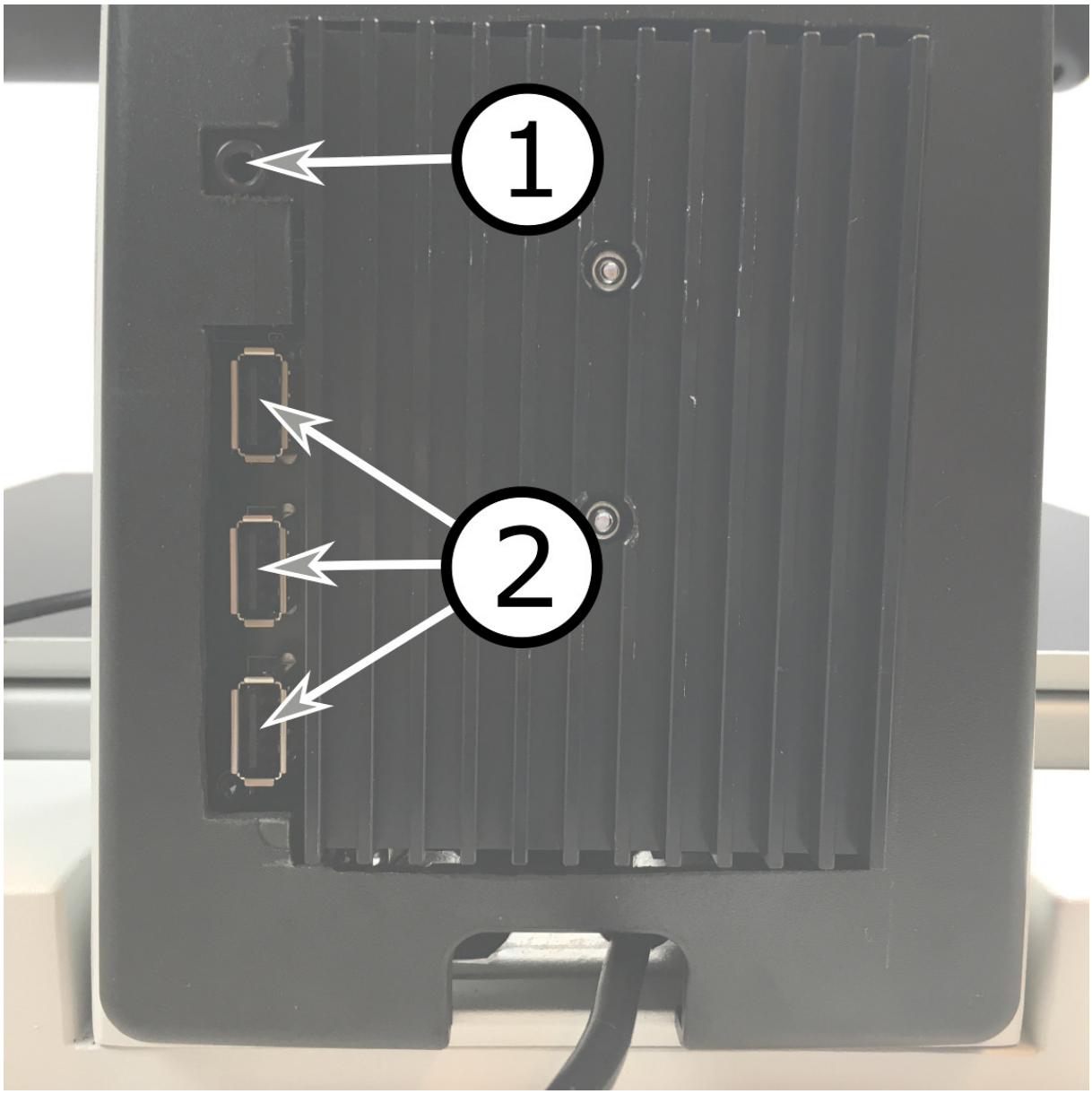
5 Accessories

6 Installation

Place your MagniLink Vision far enough in on the table in front of your seat, but at least 10 cm from the edge of the table. Remember that the reading table can be pulled out approximately 30 cm in three directions. MagniLink Vision has a low total weight. It is therefore very important to position the system in the right place on your table, particularly when you are using the reading table in its most extended position. An excessive load in this position can cause the system to tip over.

Connect the power cable to the wall socket and press the start button. The unit is now ready to be used. The screen can be tilted approximately 10 degrees backwards and lowered 8.5 cm from its highest position. Use the grips on both sides of the screen and move it to find the desired position. Release the brakes on the reading table and start using MagniLink Vision.

The following connection options can be found on the rear of the unit.



1. **Port for headphones**
   Here you can plug in headphones.
2. **USB ports**
   The unit has three USB ports. The hand control must be connected to one of these ports. If you wish to save or open a document, you can connect a USB memory stick.

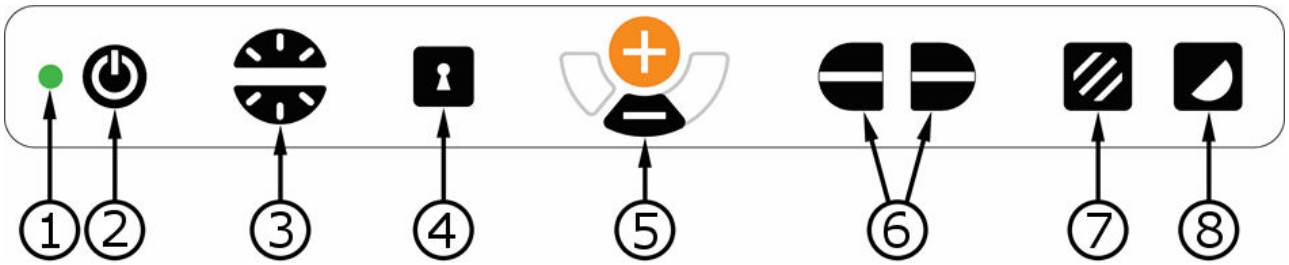
7 Use

MagniLink Vision TTS is started from the panel. LVI's logo is displayed on the screen when the system is starting, and the picture from the CCTV camera is shown after ten seconds. After a further 40 seconds, the reading machine starts with the message "Reading machine ready". Using the hand control, it is now possible to switch between CCTV mode and OCR mode. When you are in CCTV mode, the panel is used to control the system. When you are in OCR mode, the hand control is used to control the system.

7.1 Panels

Two panels are available for MagniLink Vision. The functions of each panel are explained below.

7.1.1 5 Press



1. **LED**
   A green light indicates that the system is on. A flashing green light means that the system is starting up. A slowly flashing yellow light indicates standby. A red light indicates that something is wrong in the system. See the chapter on "Troubleshooting".
2. **Power on/off**
   Press to start or shut down the system.
3. **Light and contrast control**
   In picture mode, this control is used to configure the light intensity in order to optimise reading conditions. Press the upper half to increase the light intensity and the lower half to decrease it. In high contrast mode, it is used to set the contrast level. If you hold in the Picture mode button (7), the level of lighting is adjusted instead with the Light control.
4. **Autofocus on/off**
   Press the button once to lock the focus. This can be used when you wish to write by hand. Autofocus is not affected by the pen or your hand. Press the button a second time to reactivate autofocus.

   Overview mode
   A long press reduces the magnification to an overview mode. Another long press restores the magnification.

5. **Magnification control**
   Used to set the magnification. To reduce the magnification, press the lower key (minus) and to increase the magnification, pressure the upper key (plus).
6. **Reference line/Bar**
   Adjust the position of the reference line. Press the right-hand button to move the reference line down horizontally. Hold the button in to change the reference line to vertical and move it to the left. The reference line then becomes a horizontal bar which diminishes the viewing area. To make the bar vertical, press the button again. The left-hand section of the control has the opposite effect.
7. **Picture mode**
   Press the button to switch the image between natural colours and grey scale.

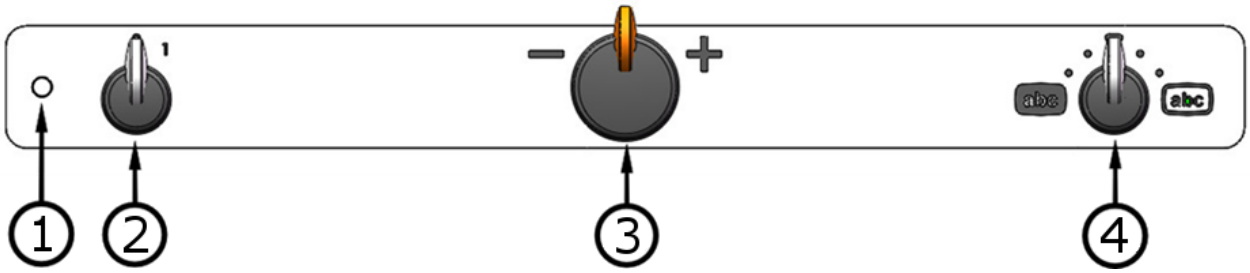
   Lighting adjustment
   Hold the button down to temporarily enable adjustment of the lighting via the lighting configuration (3). This can be used by light-sensitive users or when reading on glossy paper. The system automatically switches between ROPC (Reading Optimized Picture Control) and DPC (Dynamic Picture Control) when the lighting reaches a certain level. When the lighting configuration (3) is used to adjust the lighting, there is no switching between colour and grey scale.

   Lights off/on

   The lights can be switched on and off by holding the button down for three seconds. The system switches automatically between ROPC (Reading Optimized Picture Control) and DPC (Dynamic Picture Control).
8. **High contrast mode with artificial colours**
   Press the button to switch between the various colour combinations. These colours are available as standard:

Background/Text	Background/Text
White/Black	Red/Black
Black/White	Black/Red
Yellow/Black	Yellow/Blue
Black/Yellow	Blue/Yellow
Green/Black	White/Blue
Black/Green	Blue/White

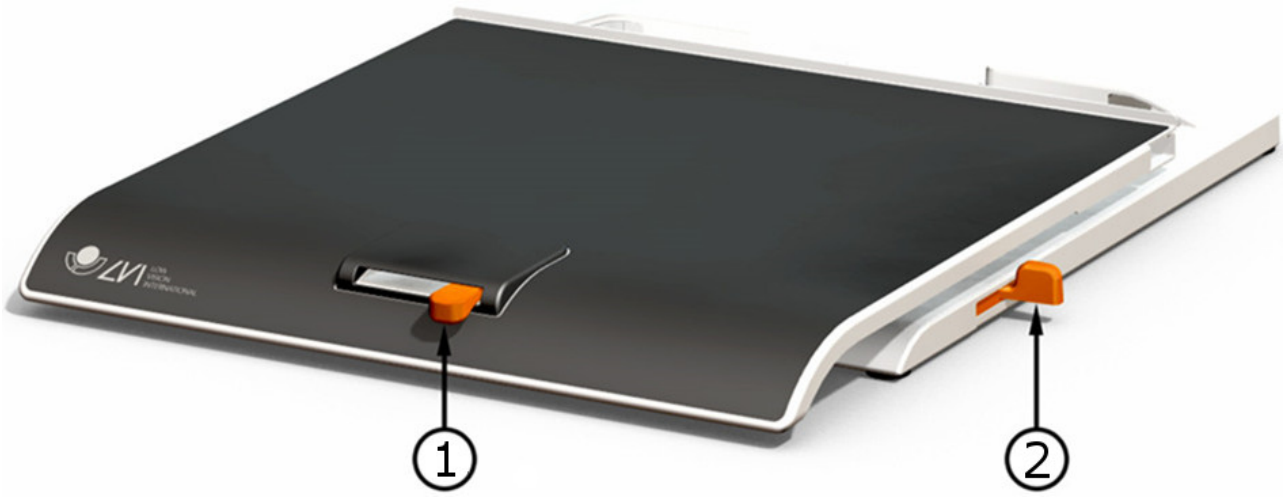
7.1.2 3 Rotate



1. **LED**
   A green light indicates that the system is on. A flashing green light means that the system is starting up. A slowly flashing yellow light indicates standby. A red light indicates that something is wrong in the system. See the chapter on “Troubleshooting”.
2. **Power on/off**
   Rotate to start or shut down the system.
3. **Magnification control**
   Used to set the magnification. Using this control, you can select between 16 different magnification positions.
4. **Picture and high contrast mode**
   The picture mode is displayed on the screen when the control is straight up in its starting position. Rotate the control to the right or left to display four different high contrast modes. These colours are available as standard:

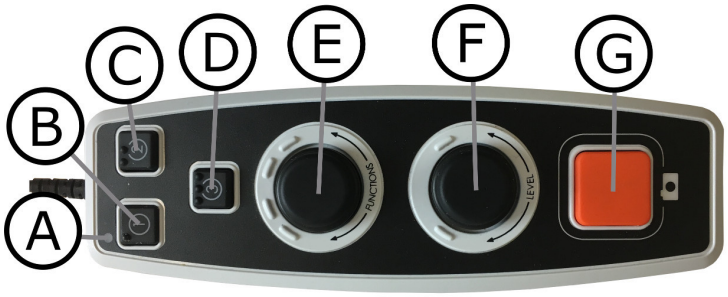
Background/Text	Background/Text
White/Black	Yellow/Black
Black/White	Black/Yellow

7.2 Reading table



1. **Side way direction friction adjustment**
   Set the side way friction by moving this handle. With the brake in the left end position, the reading table is unlocked. To increase friction, push the side way brake to the right (at the far right, the brake clicks into locked mode).
2. **Depth way direction friction adjustment**
   Set the depth way friction by moving this handle. With the brake in the near end position, the reading table is unlocked. To increase friction, push the depth way brake towards the back. Push the brake in as far as possible to lock the reading table.

7.3 Profiles and settings



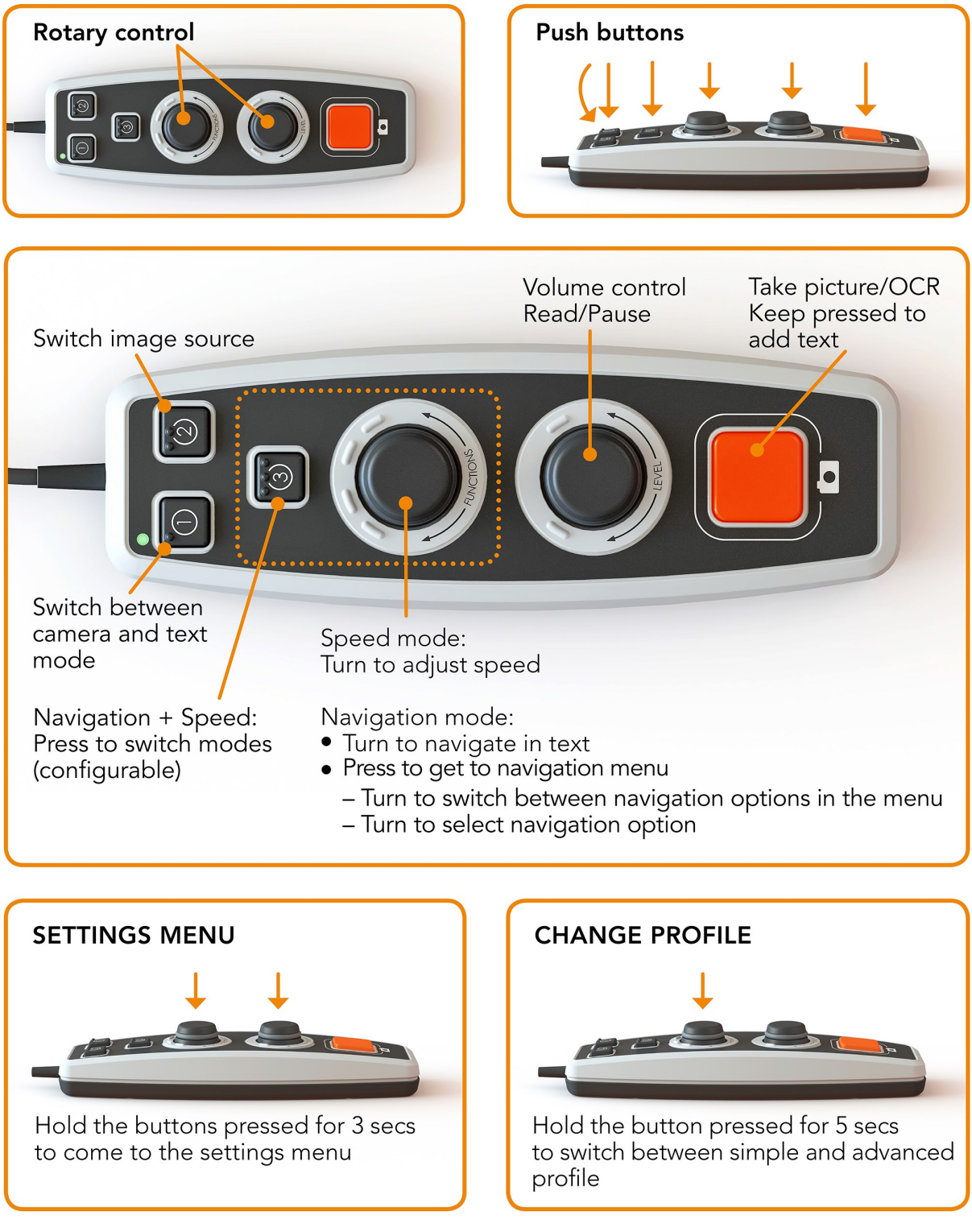
The unit can be used in simple profile or advanced profile. When the unit is in simple profile the LED lights green. When the unit is in advanced profile the LED lights blue. There is also a settings mode. When the unit is in settings mode it lights yellow.

To switch between simple and advanced profile, hold the control (**E**) pressed for five seconds.

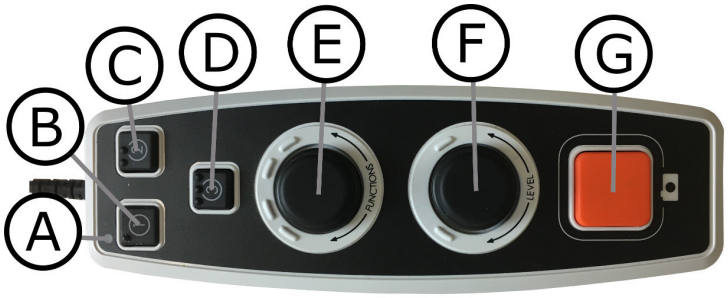
To go into settings, hold the controls (**E**) and (**F**) pressed for three seconds.

7.4 Simple profile

7.4.1 Quick guide simple profile



7.4.2 Functions in simple profile



a. **LED**
In simple profile this LED lights green. When the unit is in standby-mode it lights white.

b. **Switch between camera and text mode**
This button switches between the OCR camera and the OCR processed text.

c. **Switch image source**
This button switches between the CCTV camera and OCR camera.

d. **Quick button for navigation**
When this button is pressed it switches to navigation mode. It is possible to configure this button so that it has another function.

e. **Speed control**
When you rotate the control, you adjust the speed of reading aloud.

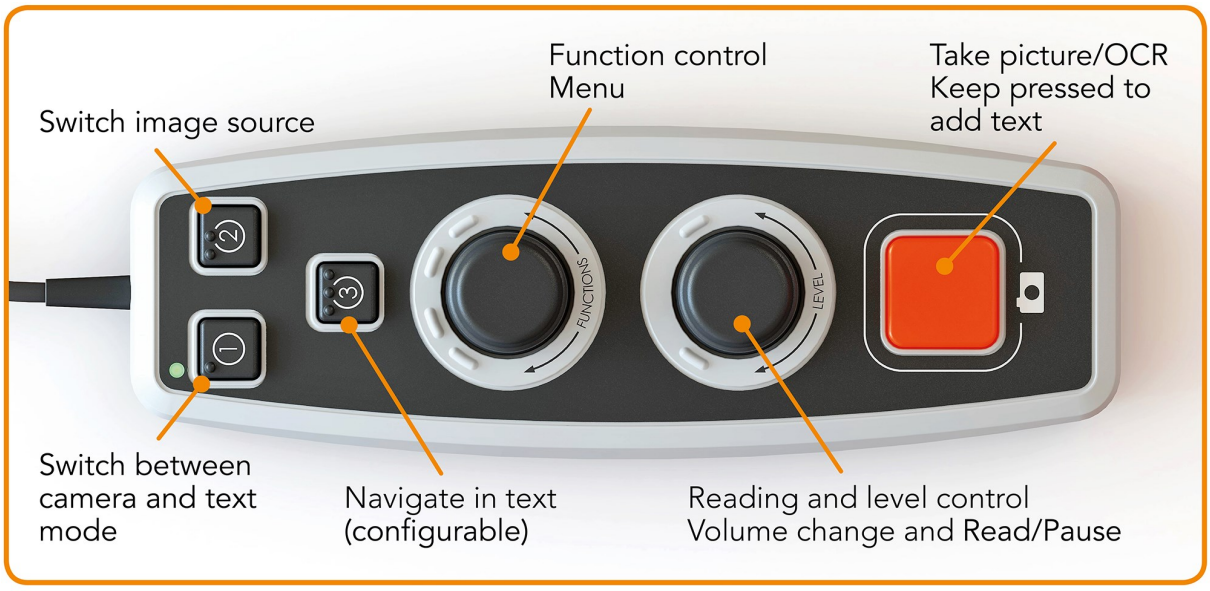
In navigation mode you can navigate in the text by turning the control. It is also possible to select navigation mode by pressing the control, turning it to the desired mode and then pressing it again.

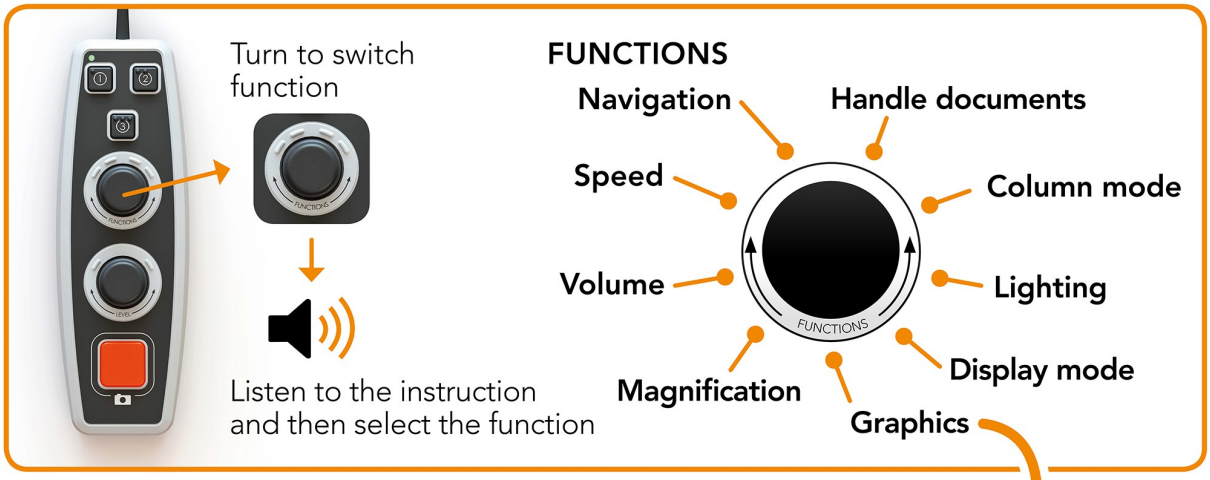
f. **Volume control**
This is a combined push button and rotary control. When the control is pressed, you can start and pause the reading. When you rotate the control, you adjust the volume level.

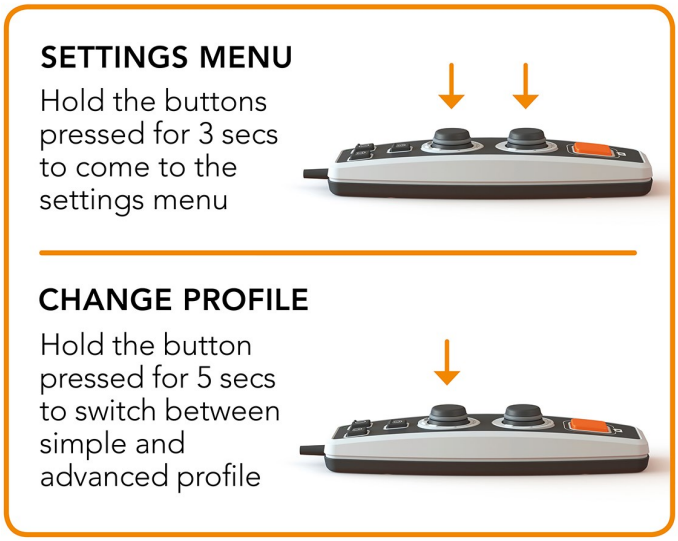
g. **OCR button**
This button is used to take a picture, OCR process the text and read aloud the result. If you hold the button in for more than two seconds the text is added to a new page.

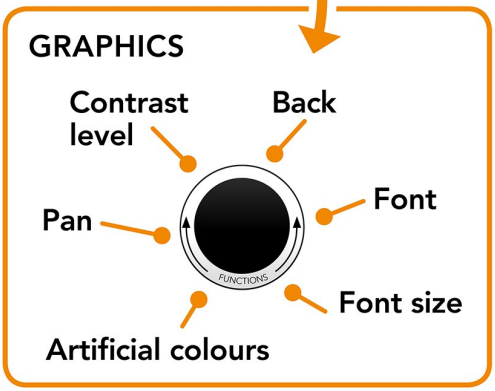
7.5 Advanced profile

7.5.1 Quick guide advanced profile

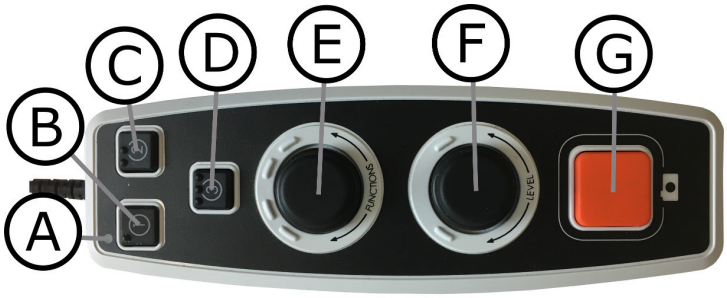








7.5.2 Functions in advanced profile



a. **LED**
In advanced profile this LED lights blue. When the unit is in standby-mode it lights white.

b. **Switch between camera and text mode**
This button switches between the OCR camera and the OCR processed text.

c. **Switch image source**
This button switches between the CCTV camera and OCR camera.

d. **Quick button for navigation**
When you press this button you are brought to navigation, and it is now possible to navigate in the text by rotating the “Level control”.

e. **Function control**
This is a combined push button and rotary control. The control is rotated until the desired function is read aloud. Some functions have a sub-menu and pressing the control will enter this menu. Other functions have a setting that you can switch on or off by pressing the control.

f. **Reading and Level control**
This is a combined push button and rotary control. When the control is pressed, you can start and pause the reading. When you rotate the control, you adjust the relevant function.

g. **OCR button**
This button is used to take a picture, OCR process the text and read aloud the result. If you hold the button in for more than two seconds the text is added to a new page.

7.5.3 Describing functions in advanced profile

The unit’s various functions and settings are controlled using the hand control. After a period of inactivity by the user, the unit returns to basic function. Below is a list of the unit's functions and descriptions of how they are performed.

Take a picture and start the reading

Press the OCR button(**G**) to take a picture to be OCR processed. When the OCR process is complete, the reading begins. If you hold the button in for more than two seconds the text is added to a new page.

Pause reading
Press the reading control(**F**) to pause the reading. Press it again to resume the reading.

Adjust the volume
Rotate the level control(**F**) to increase or decrease the volume.

Adjust the speech speed
Rotate the function control(**E**) until the unit says speed. Then rotate the level control(**F**) to increase or decrease the speech speed.

Save documents
Make sure that a USB memory stick is plugged into the unit. Rotate the function control (**E**) until the unit says "handle document" and then press the control. Rotate the function control again (**E**) until the unit says "save" and then press the control to save the document. The document is saved in the directory "lvi_text".

Change file format
To change the format that you save to. Rotate the function control (**E**) until the unit says "handle document" and then press the control. Rotate the function control (**E**) again until the unit says “file format” and press the control. Rotate the control until the desired format is spoken and press the control to select it.

Open document
Make sure that a USB memory stick is plugged into the unit. Rotate the function control (**E**) until the unit says "handle document" and then press the control. Rotate the function control (**E**) again until the unit says “open” and press the control. Turn again until the desired document is read aloud and press the control to open the document. The unit can open documents of the following file formats: .txt, .pdf, .rtf, .zip and image files: .png, .jpg, .tiff and .bmp. The documents must be in the directory "lvi_text" or the root directory of the USB memory stick in order for the unit to find them.

Delete documents
Make sure that a USB memory stick is plugged into the unit. Rotate the function control (**E**) until the unit says "handle document" and then press the control. Rotate the function control (**E**) again until the unit says “delete” and press the control. Turn the control until the file you wish to delete is read aloud and then press the control to delete the file.

Navigate in the text

Rotate the function control(**E**) until the unit says "navigation". Then rotate the level control(**F**) to navigate forward of backwards in the text.

Change navigation mode

Rotate the function control (**E**) until the unit says “navigation” and then press the control. Then chose the navigation mode using function control (**E**) and then press again. It is now possible to navigate in the text using the level control (**F**). There are five different navigation modes: “page”, “block”, “sentence”, “word by word” and “letter by letter”. If the display mode is set to silent mode, there is also the navigation mode "view".

Change column mode

To change column mode, rotate the function control(**E**) until the unit says "column mode" and then press the control. Normally the column mode in on, but it is necessary to turn it off when you are processing text that you do not want to have read aloud in column form.

Change display mode

To change display mode, rotate the function control (**E**) until the unit says “display mode” and then press the control. Then select display mode by rotating the function control (**E**). When you are satisfied with your selection, press the control (**E**) again. There are six display modes with speech: “word”, “line”, “page”, “picture”, “picture and word” and “picture and line”. There are also two silent modes. One where the text is moved horizontally on one line and one where the text is moved vertically in a column.

Change magnification

Rotate the function control(**E**) until the unit says “magnification”. Then rotate the level control(**F**) to increase or decrease the magnification.

Change font

Rotate the function control (**E**) until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “font” and press the control. Rotate the control until the desired font is read aloud and press the control to select this.

Change font size

Rotate the function control (**E**) until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “font size”. It is now possible to change the font size by rotating the level control (**F**).

Change artificial colours

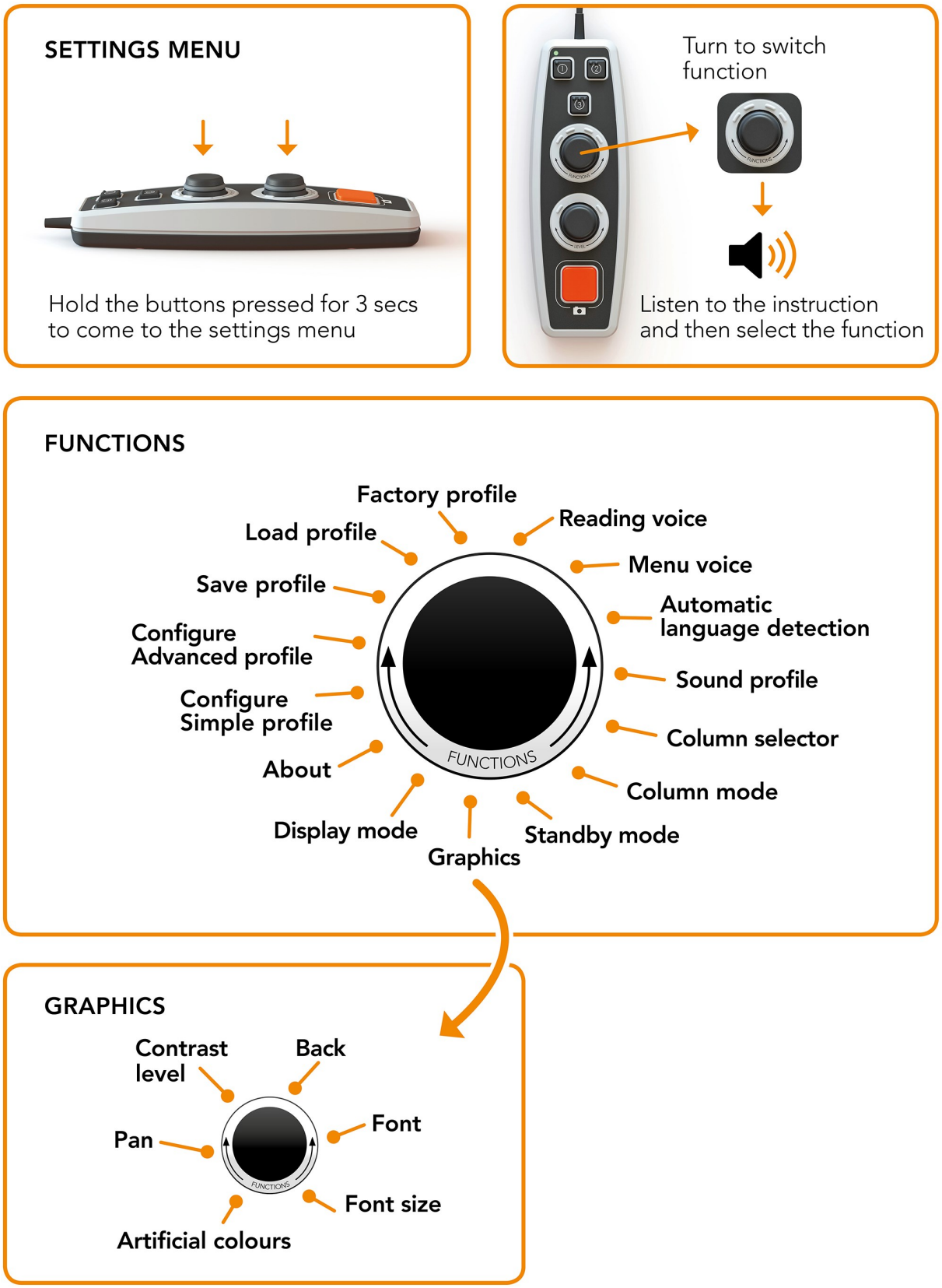
Rotate the function control (**E**) again until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “artificial colours” and press the control. Rotate the control until the desired colours are read aloud and press the control to select these.

Change contrast level

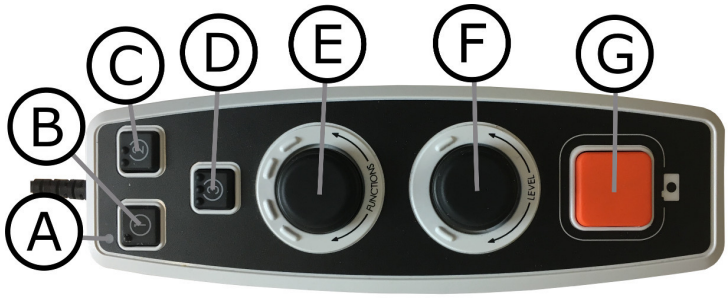
Then rotate the function control (**E**) until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “contrast level”. It is now possible to change the contrast level by rotating the level control (**F**). This setting only has an effect if any artificial colours are selected.

7.6 Settings

7.6.1 Quick guide settings



7.6.2 Functions in settings



a. **LED**
When the unit is in the settings menu it lights yellow.

b. **Switch between camera and text mode**
This button switches between the OCR camera and the OCR processed text.

c. **Switch image source**
This button switches between the CCTV camera and OCR camera.

d. **No function**

e. **Setting control**
The control is rotated until the desired setting is read aloud. Some settings have a sub-menu and pressing the control will enter this menu. Other settings have a setting that you can switch on or off by pressing the control.

f. **Level control**
Used to set font size and lighting.

g. **Exit button**
This button is used to exit the settings menu.

7.6.3 Describing the settings options

Change reading voice
Rotate the function control (**E**) again until the unit says “reading voice” and press the control. Rotate the function control again (**E**) until the desired voice is spoken and then press the control to select the voice.

Change menu voice and language setting
Rotate the function control (**E**) again until the unit says “menu voice” and press the control. Rotate the function control again (**E**) until the desired voice is spoken and then press the control to select the voice.

Change automatic language detection
Then rotate the function control (**E**) until the unit says "automatic language detection" and press the control to change the setting.

Change sound profile
Then rotate the function control (**E**) until the unit says "sound profile" and press the control. Rotate the function control again (**E**) until the desired

sound profile is read aloud and then press the control to select. There are three different sound profiles: "normal", "bass" and "treble".

Change column selector

To change column selector, rotate the function control(**E**) until the unit says “column selector”. It is now possible to adjust the column selector by pressing the control. There are three options: vertical, horizontal or off. When the column selector is on, only those columns that are intersected by the column selector are OCR-processed.

Change column mode

To change column mode, rotate the function control(**E**) until the unit says "column mode" and then press the control. Normally the column mode in on, but it is necessary to turn it off when you are processing text that you do not want to have read aloud in column form.

Change standby mode

To set the time after which the unit will switch to standby mode. Rotate the function control (**E**) again until the unit says “standby mode” and press the control. Rotate the function control again (**E**) until the desired time is read aloud and then press the control to select it.

Change font

Rotate the function control (**E**) until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “font” and press the control. Rotate the control until the desired font is read aloud and press the control to select this.

Change font size

Rotate the function control (**E**) until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “font size”. It is now possible to change the font size by rotating the level control (**F**).

Change artificial colours

Rotate the function control (**E**) again until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “artificial colours” and press the control. Rotate the control until the desired colours are read aloud and press the control to select these.

Change contrast level

Then rotate the function control (**E**) until the unit says “graphics” and press the control. Rotate the function control (**E**) again until the unit says “contrast level”. It is now possible to change the contrast level by rotating the level control (**F**). This setting only has an effect if any artificial colours are selected.

Change display mode

To change display mode, rotate the function control (**E**) until the unit says “display mode” and then press the control. Then select display mode by rotating the function control (**E**). When you are satisfied with your selection, press the control (**E**) again. There are six display modes with speech: “word”, “line”, “page”, “picture”, “picture and word” and “picture and line”. There are also two silent modes. One where the text is moved horizontally on one line and one where the text is moved vertically in a column.

Get information about the unit's serial number

Rotate the function control (**E**) until the unit says "about" and then press the control. Rotate the function control again (**E**) until the unit says "serial number" and press the control. The unit's serial number will now be read aloud.

Get information on the version of the software

Rotate the function control (**E**) until the unit says "about" and then press the control. Rotate the function control again (**E**) until the unit says "version" and press the control. The unit will now read aloud information about the software version.

Update license

Updating the unit's license requires a USB memory stick with a license file to be plugged into the unit. Rotate the function control (**E**) until the unit says "about" and then press the control. Rotate the function control again (**E**) until the unit says "update license" and press the control. The unit will then notify you if the licence update was successful.

Update software

Updating the unit's software requires a USB memory stick with new software to be plugged into the unit. Rotate the function control (**E**) until the unit says "about" and then press the control. Rotate the function control again (**E**) until the unit says "update software" and press the control. When the update is complete, the unit will notify you of this.

Save profile

Make sure that a USB memory stick is plugged into the unit. Rotate the function control (**E**) until the unit says "save profile" and then press the control.

Load profile

Make sure that a USB memory stick is plugged into the unit. Rotate the function control (**E**) until the unit says "load profile" and then press the control. Rotate the function control again (**E**) until the desired profile is read aloud and then press the control to load it. The profiles must be in

the root directory of the USB memory stick in order for the unit to find them.

Factory profile
Rotate the function control (**E**) until the unit says "factory profile" and then press the control.

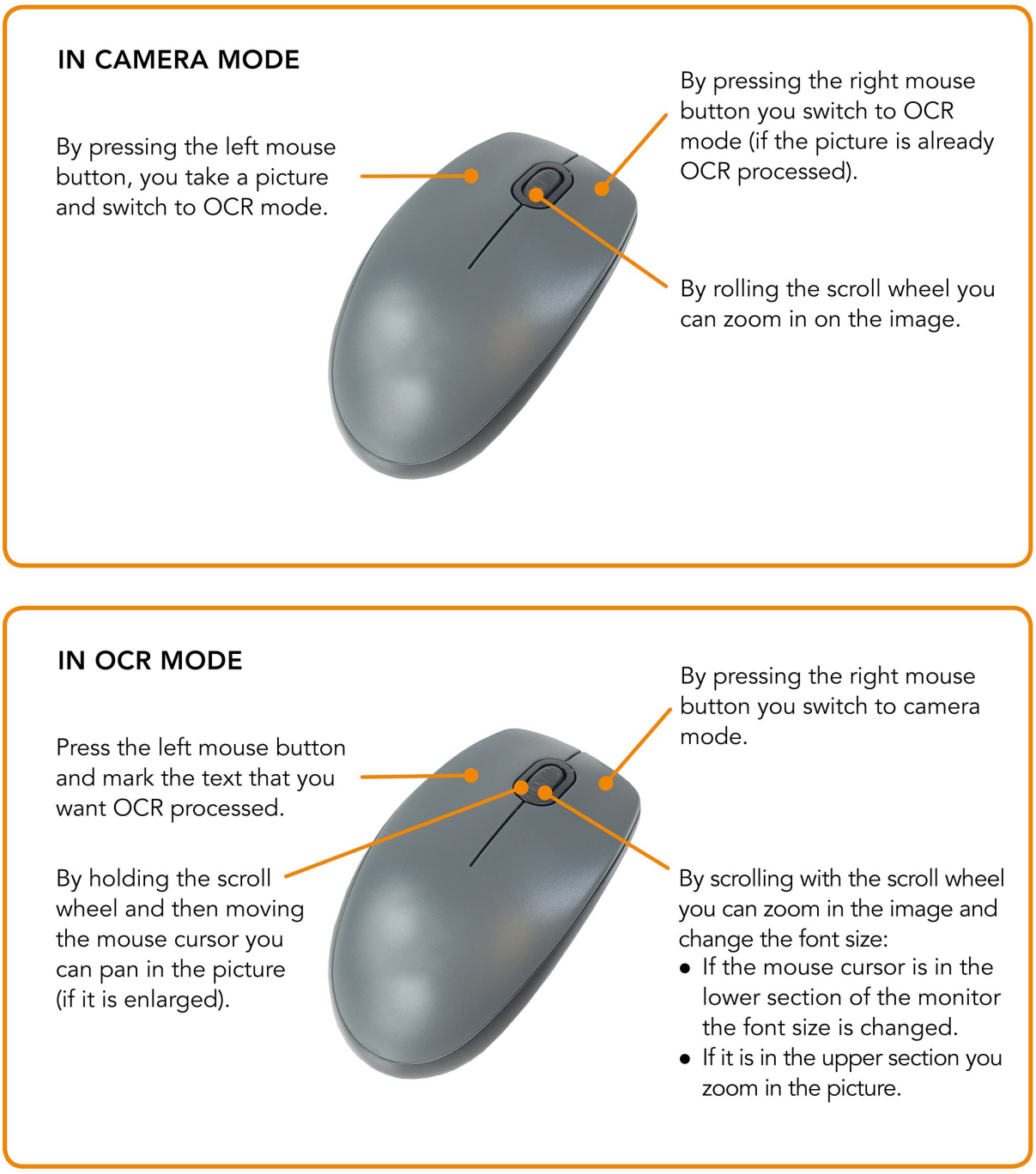
Select basic function
To select which menu the unit will return to after a period of inactivity. Then rotate the function control (**E**) until the unit says "configure advanced profile". Rotate the function control again (**E**) until the unit says "basic function" and press the control. Rotate the function control again (**E**) until the desired option is read aloud and then press the control. It is possible to choose between volume, speed, magnification and navigation.

Select quick function
To select quick function move quick button (**D**). Then rotate the function control (**E**) until the unit says "configure advanced profile" and press the control. Rotate the function control again (**E**) until the unit says "quick function" and press the control. Rotate the function control again (**E**) until the desired option is read aloud and then press the control. It is possible to select between display mode, column selector, column mode, navigation, automatic language identification and speaking voice.

Remove functions
To remove functions. Then rotate the function control (**E**) until the unit says "configure advanced profile" and press the control. Rotate the function control again (**E**) until the unit says "functions" and press the control. It is now possible to navigate and remove functions using the function control. Press the control to remove or restore the selected function. When you have selected the functions you wish to be available, navigate with the function control (**E**) until the unit says "back" and press the control.

Configure simple profile
It is possible to configure the quick button (**D**). Then rotate the function control (**E**) until the unit says "configure simple profile" and press the control. Rotate the function control again**(E**) until the desired option is read aloud and then press the control. It is possible to select between display mode, column selector, column mode, navigation, automatic language identification and speaking voice and no function.

7.7 Quick guide computer mouse



7.8 Computer mouse

Certain functionality can be controlled with the mouse.

In camera mode.

- By pressing the left mouse button, you take a picture and switch to text mode.
- Rolling the scroll wheel can zoom in on the image.
- By pressing the right mouse button you switch to text mode (If a picture has been taken).

In text mode

- By pressing the left mouse button and marking the text that you want OCR processed.
- By scrolling with the scroll wheel you can zoom in the image and change the font size. If the mouse cursor is in the lower section of the monitor the font size is changed. If it is in the upper section you zoom in the picture.
- By holding down the scroll wheel and then moving the mouse cursor you can pan in the picture (If it is enlarged).
- By pressing the right mouse button you switch to camera mode.

7.9 Extra voices on a USB stick

It can be possible to use voices that are on an external USB drive. To enable the voices, connect the USB stick to one of the unit's USB ports and wait until the unit says "voices are ready to be used". It is then possible to go into the menu and change voices and language settings to one of the new voices.

7.10 Quality of OCR conversion

In order to optimize the results of the OCR conversion, you should bear in mind the following.

- Make sure that the text is large enough. If the text is too small, the OCR results will be bad. At least 12pt is recommended.
- Avoid glossy paper as this results in reflections in the image. This impairs the results of the OCR conversion. If you intend to use glossy paper, we recommend that the light on the unit is switched off.
- Certain fonts can be difficult for the OCR engine to interpret.
- It is important that the text contrast is sufficient.
- It is important that the chosen spoken language is the same as that of the text.
- The paper should be rotated as little as possible.

8 Ergonomics

It is important that the workplace around your system is comfortable, and that you sit correctly. This is so that you can use it for as long as possible without putting undue strain and stress on your neck and back.

You should bear the following in mind.

- Your chair should be positioned close to the table on which the equipment is located, and you should not sit in the chair for too long. We recommend a good office chair with adjustable height.
- The seat of the chair should be at a height that does not cause your legs to become numb; legs should be at an angle of 90 degrees and you should rest your feet on the floor.
- The reading table should be at a height at which you can rest your lower arm horizontally on it. It is important that the table is neither too high nor too low for you. The ideal solution is if the screen is slightly below eye level and in as straight a line in front of you as possible.
- Shield out daylight. Lights in the ceiling, table lamps and light from windows can cause reflections on the monitor. For this reason, avoid placing lights where they shine directly at the screen or at yourself.
- If you use the device for long periods of time, there is a risk of repeated movements causing you pain in your neck, shoulders and back. Your eyes can also get tired from looking at a screen for too long.

9 Troubleshooting

No image is displayed after you start the system:

- Check that the power is on.
- Check that all connectors are properly connected as explained in the ‘Installation’ section.

The LED to the left of the start button shines red:

- Something is wrong and MagniLink Vision cannot be used. Press the start button once and MagniLink Vision will make three attempts to restart. If the system still fails to start, the LED will shine red again. Disconnect the power cable and contact service personnel.

The LED flashes red:

- The incorrect voltage is being supplied from the mains adapter. If the fault persists, disconnect the power cable and contact service personnel.

If the unit gives the voice response “No text in the document” after an OCR conversion.

- Check that the document is not rotated through more than 15 degrees.

Never remove any panels or the casing in order to attempt to repair the system yourself. In the event of problems, contact your local dealer.

10 Technical information

MagniLink Vision TTS with a 24" TFT widescreen

Magnification	2.0 - 70x
Resolution	1920 x 1080
Power	Max 51 W
Dimensions	570 x 470 x 480 mm (W x D x H)
Weight	13.5 Kg

MagniLink Vision TTS with a 27" TFT widescreen

Magnification	2.4 - 85x
Resolution	1920 x 1080
Power	Max 52 W
Dimensions	610 x 470 x 570 mm (W x D x H)
Weight	14.0 Kg

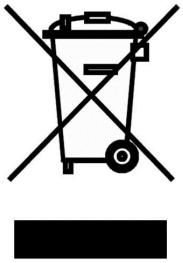
General characteristics

Refresh rate CCTV camera	60 Hz
Refresh rate OCR camera	7 Hz
Luminance	300 cd/m^2
Contrast	1000:1
Focal range	0-60 mm (at maximum magnification)
Free working height beneath the camera	110 mm – 195 mm
Lamp type	8 LED
Power adapter, AC input	100-240 V, 50-60 Hz
Power adapter, DC output	12 V, 5.41 A
Power adapter, power	65 W
Reading table dimensions	425 x 400 mm (W x D)
Temperature range	Transportation & Warehousing: -20°C – +60°C In use: +5°C – +25°C
Relative humidity	<80%

Service Life and Safe Use

In compliance with the Medical Device Regulation (EU) 2017/745, the manufacturer specifies the period during which the device is expected to maintain safe and effective performance under normal conditions of use. For this device, the recommended service life is 3 years from the date of purchase.

Note:
The indicated service life does not represent the full technical lifetime of the product. It reflects the period during which the device's performance and safety have been verified by the manufacturer. After this period, the device may still function, but technological developments or wear related factors may justify evaluation for potential replacement.



Disposal of old electrical and electronic equipment (applies for EU countries and all other European countries that have specific collection systems)

If the product or its packaging has this symbol on it, it is not to be handled as regular domestic waste. It should instead be deposited at a suitable collection centre for the recycling of electrical and electronic equipment. By ensuring that this product is properly taken care of, you are helping to prevent the negative impact on health and the environment that might otherwise result from inappropriate disposal of this product. Recycling helps in the management of our natural resources. For more detailed information regarding the recycling of this product, you can contact your municipality, your waste management company or the store where you purchased the product.

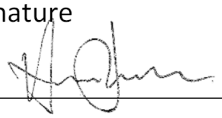
11 Declaration of Conformity

DECLARATION OF CONFORMITY

Manufacturers name:	*LVI Low Vision International AB*
Manufacturers Address:	*Verkstadsgatan 5* *S-352 46 Växjö* *Sweden*
Web:	*http://www.lviglobal.se*
SRN (Single Registration Number):	*SE-MF-000004178*
Basic UDI-DI (GMN):	*7330724MLVEJ*
Brand name or trademark:	*MagniLink*
Product code:	***MLV-HD-E, MLV-FHD-E, MLVBASIC-S24-TTS, MLVBASIC-S27-TTS, MLVBASIC-S24-TTS-3V, MLVBASIC-S27-TTS-3V***
Classification:	*Class 1*
Type of equipment:	*Reading Aid*
Conformity assessment route:	*LVI Low Vision International AB uses the procedures for the CE-labeling of their products according to Article 52(7) of Regulation MDR 2017/745.*

This declaration of conformity is issued under the sole responsibility of LVI Low Vision International AB. We hereby declare that the medical device(s) specified above meets the provision of the Regulation (EU) MDR 2017/745 for medical devices and Regulation (EU) 2023/1542 concerning Batteries and PPWR (EU) 2025/40, where it is applicable. This declaration is supported by the Quality System approval to ISO 9001 issued by Intertek. All supporting documentation is retained at the premises of the manufacturer.

☒ Manufacturer ☐ Manufacturer's authorized representative

Date	Signature	Position
17-03-2026		Managing Director

Clarification

Henrik Blomdahl

Alphabetical index

3 Rotate 12
5 Press 10
About LVI 1
Accessories 7
Advanced profile 16
Cleaning 4
Computer mouse 26
Declaration of Conformity 32
Describing functions in advanced profile 17
Describing the settings options 22
Ergonomics 28
Extra voices on a USB stick 27
Functions in advanced profile 17
Functions in settings 22
Functions in simple profile 15
Information 4
Installation 8
Introducing MagniLink Vision TTS 2
Packaging 6
Panels 10
Profiles and settings 13
Quality of OCR conversion 27
Quick guide advanced profile 16
Quick guide computer mouse 26
Quick guide settings 21
Quick guide simple profile 14
Reading table 12
Reuse, installation and maintenance 4
Safety information 4
Settings 21
Simple profile 14
Technical information 30
Troubleshooting 29
Unpacking 6
Use 10