

User Manual

MagniLink S PREMIUM 2 - Mac

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1 About LVI

LVI Low Vision International AB was founded in 1978 and is one of the world's leading manufacturers of magnifying TV- and computer systems for visually impaired. New products are developed in close cooperation with users and professional personnel of vision rehabilitation. LVI is a Quality System Certified ISO 9001 and Environmental System Certified ISO 14001 company.

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 Introduction to the MagniLink S

Thank you for choosing this video magnifier. We aim to ensure that you are completely satisfied with your choice of supplier and reading aid.

The MagniLink S is a portable camera system with autofocus, which can be connected to a computer or directly to an external monitor. The system is controlled via a keyboard and/or control box. MagniLink S is available in a number of different models. Choose model in the following steps:





Model	Camera
MLS-FHD-2	FHD (1080p)

Choose among the following accessories.

Product code	Accessory
А	Text To Speech for PC
В	Text To Speech for Mac



MagniLink S meets all the requirements for CE marking of medical devices in accordance with Directive 93/42/EEG. Our products comply with MDD 93/42/EEC with additions from Directive 2007/47/EC.



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

The reading aid is only intended for indoor use and must be used in accordance with the following safety instructions.

- Use only the power adaptor supplied with MagniLink S. If the wrong type of adaptor is used for operation of MagniLink S, this can cause damage to the system.
- Units such as HDMI monitors and/or computers that are to be connected to the system must comply with the appropriate safety regulations for their country of use.
- Never turn on or use the product if it has been exposed to water, rain or other liquids. Pull out the USB cable and allow trained service personnel to carry out an inspection of the product before it is used again.
- Place the power cord in such a way that you can neither trip over it or that crush damages can occur.
- 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, pull out all cables and use a slightly damp (not wet) cloth. Use only water or a cleaning agent that is 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.
- Make no further adjustments, even if the product does not function normally after following the functional descriptions. Pull out the USB cable and contact service personnel or the product distributor. Only use spare parts that are specified by LVI

If in doubt, contact your supplier.

Warning



MagniLink S 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:



- Reading camera
- Removable USB/HDMI module
- USB cables
- Case
- USB memory stick with software
- Polishing cloth
- User Guide
- Power adaptor
- HDMI to HDMI cable

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

Open the box and take out the MagniLink S; remove the white packaging. For further information see Installation.

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 (EPE)
- 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.



5 Accessories



Larger external control box (MLV-A110A).



MagniLink Reading Table (MLRT), portable reading table.





LVI Monitor 19" (MLS-A103) and 23" (MLS-A104).



MagniLink Docking Station 2 (MLS-A108) with table clamp.



Text To Speech for PC (TTS-PC) or Mac (TTS-MAC).

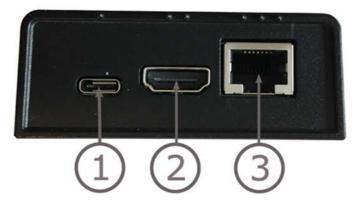


6 Hardware

6.1 Installation of hardware



Open the camera's arm and pull out the camera's supporting legs. It is not possible to manipulate the camera's arm until the supporting legs have been extended.



The USB/HDMI module has several connection options.

1. USB connection

In addition to transferring images to a computer, the USB connection is used to provide power to the system.

2. HDMI connection

Here the camera can be connected to a monitor that supports HDMI or DVI.

3. External control panel

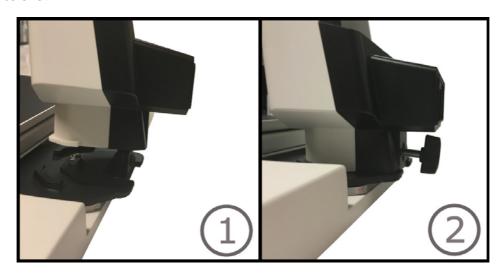
An external control panel can be connected via this input. If the camera is linked to a docking station, the control panel must be connected before you attach the USB connection.



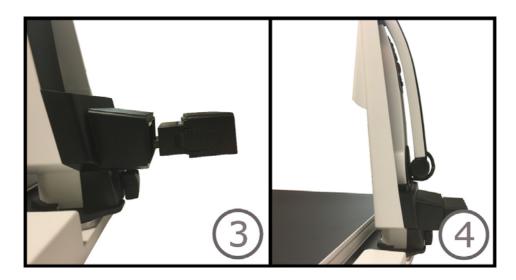
6.2 Installation of docking station

If you bought a MagniLink Docking Station, follow the instructions below to install it.

A MagniLink Docking Station consists of a camera holder and a reading table, plate or table clamp. If it is the variant with a table clamp, fasten it to the table.



- 1 Place the holder in the reading table, plate or table clamp.
- 2 Fasten the holder with the screw.

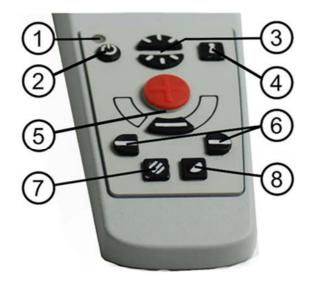


- 3. Remove the USB / HDMI module from the camera and insert it into the holder.
- 4. Place the camera in the holder.



6.3 Using the hardware

6.3.1 Control box



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 page 42.

2. Power on/off

Press to start or shut down the system.

3. Lighting configuration

Used to configure the light intensity in order to optimize reading conditions. Press the upper half to increase the light intensity and the lower half to decrease it. For systems that have LED lighting, the intensity is adjusted by holding down the button (7).

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.

5. Zoom control

Used to set the zoom. To reduce the zoom, press the lower key (minus) and to increase the zoom, pressure the upper key (plus).



6. Reference line/Bar

Adjust the position of the reference line. Press the right-hand button to move the horizontal line down. 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 button gives the opposite result.

7. Picture mode

Press the button to switch the picture mode between natural colours and grey scale.

Lighting adjustment

Hold the button down to temporarily enable adjustment of the lighting via the lighting configuration (3). When the lighting configuration (3) is used to adjust the lighting, there is no switching between colour and grey scale (only possible if the system has LED lighting).

Mirroring

A mirror image can be obtained by holding the button down for three seconds.

8. High contrast modes with artificial colours

Press the key to switch between the various colour combinations. **Rotation**

By holding the button down for three seconds, the image can be rotated 180 degrees.



6.3.2 Position sensor



MagniLink S is equipped with a position sensor that is used to switch between reading mode (the user points the camera down and flips the lens into place) and distance mode (the user opens the lens). The settings for both modes are automatically saved when you switch from one to the other.

Settings that are automatically saved for these modes are:

- Artificial colours
- Negative/Positive/Natural colours
- Light
- Magnification level
- Reference line/Bar
- Rotation of camera image
- Mirroring of camera image



7 MagniLink MacViewer

MagniLink MacViewer is a software program used on a Mac computer to display images from a MagniLink camera system. The software can control the camera properties, such as magnification level, artificial colors, brightness, and many additional features. If the package you purchased also contains a license for OCR, then it is possible to OCR text, and have it read aloud by the speech synthesiser.

7.1 Minimum System Requirements

- Mac OS Version 11 Big Sur, or later
- 1 integrated USB 3.0 port
- To use the system in minimum resolution and picture frequency you will need a computer with a 1,3 GHz Dual-Core Intel Core i5 processor, 4 GB RAM.

7.2 Recommended System Requirements

- Mac OS Version 11 Big Sur, or later
- 1 integrated USB 3.0 port
- To use the system in maximum resolution and picture frequency, you will need a computer with an i5 or i7 processor, 8 GB RAM memory, external graphics card with at least 512 MB inbuilt memory.



7.3 Installation of Software

To install MagniLink MacViewer on your Mac, insert the USB stick containing the software into one of the computer's USB ports. Begin the installation by double clicking on the "MagniLink MacViewer.dmg" file located in the "Software Mac" folder.



Read the text in the "License Agreement" dialog box and accept the license agreement by clicking the "Agree", button. After clicking "Agree", the following window will open.



To install MagniLink MacViewer, drag the "MagniLink MacViewer" icon to the "Applications" folder. This completes the installation.

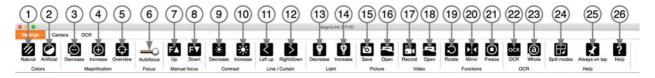


7.4 Using the Software

7.4.1 Functions via menus

The application consists of a window with tabs and groups of buttons. There is a tab for application settings and another tab for handling the camera. Depending on whether the system is licensed for OCR, there is also a tab for handling the OCR processed text.

7.4.1.1 Camera tab



1. Change natural colors

Used to change between natural colors and gravy scale.

2. Change artificial colors

Switches to the next artificial colors. To switch to the previous colors, hold down Shift when you press the button.

- 3. Decrease magnification
- 4. Increase magnification
- 5. Overview mode

Reduces magnification to overview mode. Click again to restore the magnification. When overview mode is active, a sight is displayed in the middle of the video window.

6. Lock autofocus

Locks the autofocus mode. This can be used when you wish to write by hand. In this way, autofocus is not affected by the pen or your hand. Press the button a second time to reactivate autofocus.

7. Focus up*

Reduce focus distance. When this function is used, autofocus is turned off.

8. Focus down*

Increase focus distance. When this function is used, autofocus is turned off.

- 9. Reduce brightness/contrast
- 10. Increase brightness/contrast



11. Reference line/bar left/up

Adjust the position of the reference line. Press the button to move the reference line to the left. Hold the button in to change the reference line to horizontal and move it upwards. The reference line then becomes a vertical bar which diminishes the viewing area. To make the bar horizontal, press the button again.

12. Reference line/bar right/down

Same as the previous command but in the opposite direction.

- 13. Reduce lamp brightness*
- 14. Increase lamp brightness*

15. Take snapshot

A dialog box "Save pictures" opens. A file name (with the day's date and time) and a folder (MagniLink) are automatically suggested. Just press "Enter" to save the picture. If you wish to save the picture somewhere else, or with another name or in another format (the standard is JPG), you can change this manually. To save a picture quickly, hold down "Shift" when you press the button.

16. Show pictures

Press to view the saved pictures. Mark the picture you wish to view and press Enter or select Open. The picture is normally opened in Mac OS standard picture-viewing program where, among other things, the picture can be enlarged. To view the most recently saved picture quickly, hold down "Shift" when you press the button.

17. Start/stop video recording

Press to open the "Save video clip" dialog box. A file name (with the day's date and time) and a folder (MagniLink) are automatically suggested. Press Enter to save with the suggested name. If you wish to save the video in a different folder, or with another name, you can change this in the dialog box. Stop the recording by pressing the button again. To start video recording quickly, hold down "Shift" when you press the button.

18. Show video recording

Press to view the saved video files. Mark the video you wish to view and press Enter or select Open. The video is normally opened in Mac OS standard media player software. To view the most recently saved video recording quickly, hold down "Shift" when you press the button.



19. Rotate the camera image

Rotates the camera image clockwise. To rotate counterclockwise, hold down Shift when you press the button.

20. Mirror the camera image

Press again to reverse the mirror image.

21. Freeze the camera image

Press again to release the freeze.

- 22. OCR process (Only shown if the system has a licence for OCR) When OCR processing is complete, the program changes to the OCR tab and the text is read. If there is already text under the OCR tab, this is replaced. Hold down Shift when you press the button to insert the text on a new page.
- 23. Whole image (Only shown if the system has a licence for OCR) When this is active, the whole camera image is shown. Otherwise edit in the image, depending on how large the camera window is.

24. Next split mode

Switches to the next split mode. To switch to the previous split mode, hold down Shift when you press the button.

25. Always on top

Activates/deactivates "Always on top." If "Always on top" is activated, the camera image will be placed over other open applications. This means that another program can be in focus and that you can use a word processor while looking at the camera image.

26. Help

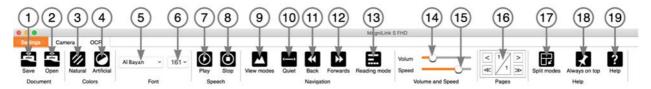
Opens the user guide in the standard application for showing PDF files.

*If these buttons are not displayed when the application is started, the camera system does not support the function.



7.4.1.2 OCR tab

This tab is only shown if the system has a licence for OCR.



1. Save documents

A dialog box opens. A file name (today's date and time) is suggested automatically. It is possible to save the text as an RTF file (.rtf) or zip file.

2. Open documents

A dialog box opens. From the dialog box, select the file to be opened. It is possible to open PDF files, RTF files and image files, .bmp, .jpg, .png, .gif and .tiff, as well as saved zip files.

3. Change natural colors

Used to change between natural colors and gray scale.

4. Change artificial colors

Used to change between artificial colors.

5. Font

Changes the font of the OCR processed text. It is also possible to choose bold and italic text. The font that is used has no effect on the result of the OCR processing.

6. Font size

Changes the size of the font to smaller or larger.

7. Start/Pause reading

8. Stop reading

The next reading will begin from the start of the text.

9. Change display mode

Changes the display mode for OCR processed text. The display modes available are "page view", "line view," "word view," "image view," "image and word" and "image and line".

10. Silent mode

Switches to silent display mode. There are two silent modes, one where the text moves horizontally on a line and one where the text moves vertically in a column.



11. Read previous

With this button, the user can go backwards through the text. If the reading mode is set to character, one character is read for each keystroke. If the reading mode is word, you move backwards through the text word-by-word. If the reading mode is sentence, you move backwards one sentence. If the reading mode is block, you move backwards one block.

12. Read next

With this command, the user can move forward in the text. If the reading mode is set as character, one character is read for each keystroke. If the reading mode is word, you move forward through the text word-by-word. If the reading mode is sentence, you move forwards one sentence. If the reading mode is block, you move forwards one block.

13. Switch reading mode

This command selects the reading mode that is to be employed when the "Read previous" or "Read next" command is entered. The modes are character, word, sentence, view and block. Which modes can be selected depends on the display mode.

14. Volume setting

15. Speed setting

16. Pages

Moves through the OCR processed pages. The upper buttons move one page forward or backward and the lower buttons move five pages forwards or backwards.

17. Next split mode

Switches to the next split mode. To switch to the previous split mode, hold down Shift when you press the button.

18. Always on top

Activates/deactivates "Always on top."

19. **Help**

Opens the user manual in the standard application for showing PDF files.



7.4.2 Functions Via the Keyboard

If you want to use the standard F1, F2, etc. keys without pressing the (Fn) key, you can change the keyboard settings. This setting can be accessed from the Apple menu -> System Preferences -> Keyboard.

Default hotkey settings from the computer keyboard.

Fn + F1 Natural colors

Fn + F2 Positive picture with increased contrast

Artificial colors: White/Black, Yellow/Black, Green/Black,

Red/Black, Yellow/Blue, White/Blue

Press F2 to toggle through the different colors. (Shift + Fn +

F2 toggles backwards.)

Fn + F3 Negative picture with increased contrast

Artificial colors: Black/White, Black/Yellow, Black/Green,

Black/Red, Blue/Yellow, Blue/White

Press F3 to toggle through the different colors. (Shift + Fn +

F3 toggles backwards.)

Fn + F5 Take snapshot

Press Fn + F5 to open the Picture saving dialog box. A file name (today's date and time) and folder (MagniLink) is automatically suggested. Just press Enter to save the picture. If you want to save the picture somewhere else or with another name or format (JPG is standard), you can

manually change this.

Fn + Shift + F5 Take snapshot – fast

To save a snapshot picture fast without specifying file name and folder, press Fn + Shift + F5. This command will save the snapshot to the MagniLink folder or to the last folder

that was selected with F5.

Fn + Alt + F5 Start/Stop video recording

Press Fn + Alt + F5 to open the Video recording dialog box. A file name (today's date and time) and folder (MagniLink) is automatically suggested. Just press Enter to save the video.

If you want to save the video somewhere else or with another name or format, you can manually change this information prior to saving the file. Stop the video recording by pressing Fn + Alt + F5 once again.

Fn + Alt + Shift + F5 Start video recording – fast

Press Fn + Alt + Shift + F5 to start video recording at once, without specifying file name and folder. This command will quickly save the video to the MagniLink folder or to the last

folder that was used.



Fn + F6 View stored snapshots

Press Fn + F6 to view stored pictures. Mark the picture and press Enter or choose Open. The picture is normally opened in the standard Mac picture-viewing program.

Fn + Shift + F6 View last stored snapshot – fast

Press Fn + Shift + F6 to open the last saved snapshot. If no snapshots have been saved during this program cycle, the functionality will be the same as for Fn + F6.

functionality will be the same as for t

Fn + Alt + F6 View stored videos

Press Fn + Alt + F6 to view recorded video sequences. Mark the video to view and press Enter or choose Open. The video is opened in the standard video viewer.

Fn + Alt + Shift + F6 View last stored video – fast

Press Fn + Alt + Shift + F6 to open the last saved video recording. If no video recordings have been saved during this program cycle, the functionality will be the same as for

Fn + Alt + F6.

Fn + F8 Preset split modes

Press Fn + F8 to toggle among the preset split modes. If multiple monitors are used, the split modes will toggle over all monitors, starting with the primary monitor. The window can also be controlled using the mouse or the standard Mac OS X commands. (Fn + Shift + F8 toggles backwards.)

Fn + Alt + F11 Return to default settings

Press Fn + Alt + F11 to return to the default settings (normal window, natural colors and normal brightness).

Arrow up Zoom in

Arrow down Zoom out

Alt + O Overview

Switches to an overview mode. The camera zooms out and a sight is shown in the middle of the video window. To exit

overview mode, press the key combination again.

Arrow left Decrease brightness

Arrow right Increase brightness

Alt + Arrow left Guiding line left/up

Alt + Arrow right Guiding line right/down



Alt + A Toggle "Always on top"

This key combination will toggle "Always on top" for the application window. If this option is activated, the camera application window will be placed above all other application windows that are not set as "Always on top". This will make the camera application window viewable even if the application window does not have focus and would otherwise have been covered by another application window. This facilitates the ability to write in a word processor, while viewing the camera image.

Cmd + M Minimizes the application

Alt + R Rotates the camera picture clockwise

Each time you press this key combination the picture

rotates 90° (90°, 180°, 270°, 0°).

Shift + Alt + R Rotates the camera picture counterclockwise

Each time you press this key, the picture rotates 90°

counterclockwise (270°, 180°, 90°, 0°).

Alt + I Mirror camera image

By pressing Alt + I, you can mirror the camera image. This is a useful feature if you would like to use the camera as a

magnifying makeup mirror.

Alt + F Freeze camera image

By pressing this key combination, the camera image is

frozen until the key combination is pressed again.

Alt + J Autofocus on/off

Press this key combination to lock the autofocus in the present position. This could be used when writing by hand without risk of disturbing the focusing system with the hand or the pen. A subsequent press reactivates the autofocus

system.

Alt + Up arrow Decrease focusing distance

Alt + Down arrow Increase focusing distance

Alt + 6 Reduce lamp brightness

Alt + 7 Increase lamp brightness

Alt + H Hide menus

Alt + Minus Reduce menu size

Alt + Plus Increase menu size



Cmd + , Open the preferences dialog

This key combination is the standard way to open the

preferences dialog in a Mac application.

Cmd + ? Open the manual

This key combination opens the manual pages in the

standard application for viewing PDF files.

The following functions are only available for cameras that support OCR.

Fn + F4 OCR

This command takes a picture for OCR-processing. The program then switches to text view, and the OCR-processed text is read aloud. If the text view already contains text, this is replaced by the text from the OCR

conversion.

Fn + Alt + F4 Process with OCR and add text

Works like the previous command, but the text from the

OCR conversion is added to the existing text.

Fn + Shift + F4 Take picture (without OCR)

This command takes a picture without OCR processing it. It is then possible with the mouse to select the parts

of the image that you want to OCR process.

Fn + Shift + Alt + F4 Add picture (without OCR)

Works like the previous command, but the image is

added to a new page.

Alt + 3 Previous page

If several pages have been scanned, you move to the

previous page.

Alt + 4 Next page

If several pages have been scanned, you move to the

next page.

Backspace Remove page

If several pages have been scanned, you remove the

page you are on.

Alt + L Whole image

Changes between whole image and cropped image.

Alt + S Toggle column selector

Activates or deactivates the column selector. When the column selector is active, only those columns that are intersected by the column selector are OCR-processed.



Fn + Ctrl + Alt + F5 Save documents

Fn + Ctrl + Alt + F6 Open documents

Cmd + C Copy text

Copy all text in the text view to the Clipboard. It is then possible to paste the content of the clipboard into another program, such as a word processor.

Cmd + V Paste text

If the user has copied text from another program, this text can be pasted into the text view. This command replaces the existing text.

Cmd + Alt + V Paste and add text

Works like the previous command, but the text is added

to the existing text.

V Switch between camera view and text view

If a text has been OCR-processed, this command switches between camera view and text view.

B Display mode

Switches to display mode for OCR-processed text. The available display modes are "page view," "row view," "word view," "image view," "image and word" and

"image and row".

N Silent mode

Switches to silent display mode. There are two silent modes, one where the text moves horizontally on a line and one where the text moves vertically in a column.

1 Start/Pause reading

If no reading is currently in progress, reading starts; otherwise reading is paused.

2 Stop reading

This command stops the reading. The next reading will begin from the start of the text.

3 Read previous

With this command, the user can go backwards through the text. If the reading mode is sentence, you move backwards through the text one sentence at a time. If the reading mode is word, you move backwards through the text word by word. If the reading mode is set to character, one character is read for each keystroke.



4 Read next

With this command, the user can move forward in the text. If the reading mode is sentence, you move forward through the text one sentence at a time. If the reading mode is word, you move forward through the text word by word. If the reading mode is set as character, one character is read for each keystroke.

5 Switch reading mode

This command selects the reading mode that is to be employed when the "Read previous" or "Read next" command is entered. The modes are character, word, sentence, view and block. Which modes can be selected depends on the display mode.

6 Slower

Reduces the reading speed.

7 Faster

Increases the reading speed.

8 Reduce volume

Reduces the volume of the voice.

9 Increase volume

Increases the volume of the voice.

0 Next voice

Switches to the next installed voice. This command also changes the OCR engine's language to the new voice's

language.

Minus Decrease font size

Plus Increase font size

A Pan left

D Pan right

W Pan up

S Pan down



7.4.3 Gestures

If the computer is equipped with a multi-touch pad, some functionality can be controlled from the touchpad.

Zoom

Place two fingers on the touchpad; pinch to zoom out and expand to zoom in.

Rotate camera image

Place two fingers on the touchpad and do a rotating motion to rotate the camera image.

7.4.4 Functions via the mouse

Certain functionality can be controlled with the mouse.

In camera mode:

• Rolling the scroll wheel can zoom in on the image.

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.
- By holding down the scroll wheel and then moving the mouse cursor, you can pan in the picture (if it is enlarged).

It is also possible to open a document by dragging it into the application.



7.4.5 Information and settings window

The Information and settings window consists of a number of different tabs that contain application information and alternative settings.

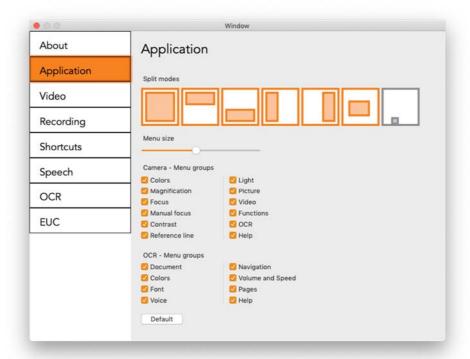
7.4.5.1 About the application



Information regarding the software version and license can be found under this tab. It is also possible to activate a license here.



7.4.5.2 Application Settings



Split screen mode

It is possible to choose the mode you want when changing split screen mode.

Menu size

The size of the menus and buttons can be changed here.

Camera - Menu groups

It is possible to choose which groups of buttons appear in the camera tab.

OCR - Menu groups

It is possible to choose which groups of buttons appear in the OCR tab.



7.4.5.3 Video Settings



Resolution

Select from the camera's various resolution options. At resolution 1280x720, the frame rate can be set up to 60 Hz. At resolution 1920x1080, only 30 Hz is possible.

Frame rate

This setting allows the user to limit the frame rate. For the best video quality, the frame rate should be 60 Hz, but it may be appropriate to set the frame rate at 30 Hz for computers with a lower level of performance.



7.4.5.4 Recording Settings



Limit recording length

Activate this function if you wish to limit the length of recording.

Length in minutes

If you chose to limit the recording length, you can set the limit in minutes here, from 1 to 60 minutes.

Frame rate

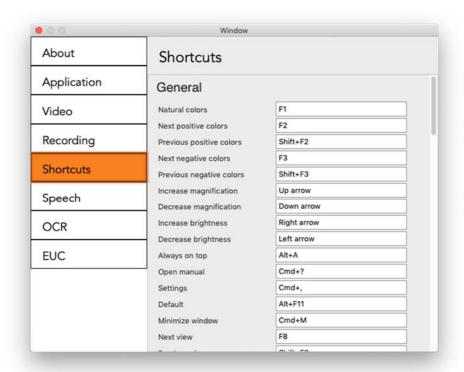
The recording frame rate, the number of images recorded per second, can be set from 10 to 30 frames per second. A lower frame rate means a poorer quality video recording but takes up less space on the hard drive.

Record sound

If your computer has a microphone (internal or external), sound can be added to the recording.



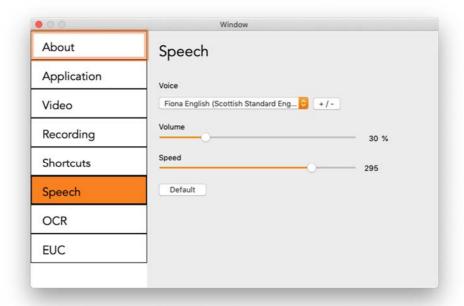
7.4.5.5 Short cut commands



Here the short cut commands used for the application can be changed. To change a short cut command, tab to the command that you want to change and enter the new keyboard combination. If that combination is already being used for another command, the other command will be erased. A new keyboard combination will need to be entered for the other command.



7.4.5.6 Speech Settings



Voice

If several voices are available, the user can choose among them.

+/-

Opens a new dialog where you can choose which voices should be available.

Volume

Setting the volume level of the voice.

Speed

Setting the speaking speed.



7.4.5.7 OCR Settings



Font

Here the user can set the typeface used for viewing text that has been OCR-processed. The typeface in use has no effect on the OCR-processing.

Column mode

When this setting is active, the OCR engine processes the text in columns, which is appropriate if it is a newspaper text that is to be processed.

Start speech after OCR

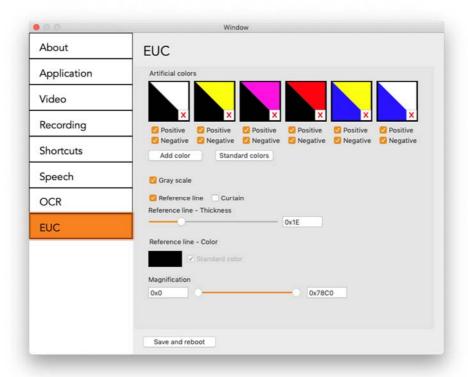
If this box is ticked, text will automatically be read aloud after an image has been OCR-processed.

Automatic language detection

When this function is active, the application will try to detect the language of the text and change the voice to the detected language. Automatic language detection uses the languages of the voices made available in speech settings.



7.4.5.8 EUC



The camera can be configured under this tab. If you wish to save changes in the camera, press "Save and reboot." When you do this, the camera restarts and the configuration has been saved.

Artificial colors

It is possible to remove and change the camera's artificial colors.

- To remove a colour combination, press X.
- To add to a colour combination, press enter.
- To change a colour combination, press one of the triangular zones and a colour dialog will appear. Select colors and press OK.
- To remove either the positive or the negative component, click out box Positive or Negative.
- To restore the colors, press Standard.

Gray scale

Choose if you wish to have gray scale or not.

Reference line

Set the size and colour of the reference line and choose if you wish to have a reference line, bar or both.

Magnification

Set the maximum and minimum magnification.



7.4.6 Quality of OCR processing

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

- Ensure the magnification is sufficient. Very small text produces poor results in the OCR software. A minimum of 12pt is recommended for the lowest magnification on the reading camera.
- 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 OCR engine's language is the same as that of the text.



8 Working with the reading camera

Your reading camera is now ready to use. It is important that the workplace around your MagniLink is comfortable, and that you sit correctly. This is so that you can use the camera 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.
- Shut 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.



9 Troubleshooting

If the indicator light is flashing:

A red light or a flashing red light indicates a system error. Restart the system by disconnecting and reconnecting all cables and rebooting the system. If a red light is still displayed, contact your service technician.



10 Technical information

Magnifying area 1,1 - 75 x (15,4" 16:9 screen)

Power output 5 W

Power output, standby 1.7 W

Weight 1.9 kg

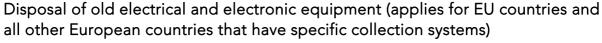
Refresh rate 60 Hz

Dimensions BxDxH 350x305x390 mm

Operational temperature 0 to 30°C

Storage and transportation temperature -20 to 60°C





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 Inte	ernational AB
Manufacturers Address	5:	Verkstadsgatan 5 S-352 46 Växjö Sweden	
Web:		http://www.lviglo	bal.se
SRN (Single Registratio	n Number):	SE-MF-000004178	3
Basic UDI-DI (GMN):		7330724MLSEC	
Brand name or tradem	ark:	MagniLink	
Product code:		MLS-HD-2, MLS-F	HD-2
Classification:		Class I	
Type of equipment:		Reading Aid	
Conformity assessment route:		LVI Low Vision International AB uses the following procedures for the CE-labeling of their products according to the Regulation MDR 2017/745:	
		<u>Class [1]:</u> EC confort Annex I + Annex II +	mity declaration according to Annex VII
hereby declare that he med	dical device(s) specifier les. This declaration is orting documentation	d above meet the prov supported by the Qua	
Date 20-05-2021	Signature	1	Position Managing Director
Clarification		_	
	Henrik Blomdahl		
	Sioilidaili		



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