

User Manual

MagniLink S PREMIUM - PC

LVI Low Vision International

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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:



Choose reading camera HD or FHD.

Model	Camera
MLS-HD	HD (720p)
MLS-FHD	FHD (1280p)



Choose among the following accessories.

Product code	Accessory
А	Text To Speech for PC
В	Text To Speech for Mac
С	MagniLink Docking Station with reading table (DVI).
D	MagniLink Docking Station with reading table (HDMI)
Е	MagniLink Docking Station with table clamp (DVI)



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 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
- USB cables
- Case
- USB memory stick with software
- Polishing cloth
- User Guide
- Power adaptor
- HDMI to HDMI cable
- HDMI to DVI 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 (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.



5 Accessories



External control box (MLS-A100).



Larger external control box (MLV-A110A).





MagniLink Docking Station (MLS-A101), stationary reading table.



MagniLink Reading Table (MLRT), portable reading table.





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



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

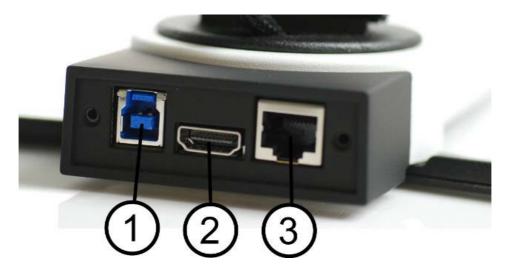


6 Hardware

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.



On the back of the camera there are several connection options. The connection options available depend on the camera model.

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.

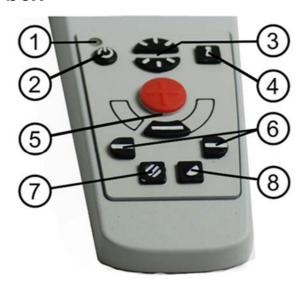


3. External control panel

An external control panel can be connected via this input.

6.2 Using the hardware

6.2.1 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 43.

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.

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.



6.2.2 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 PCViewer

MagniLink PCViewer is a programme used on a computer to display images from a MagniLink camera system. The programme can control the camera properties, such as magnification level, artificial colours and brightness. If the camera supports OCR it is possible to OCR process a text and have it read aloud by a speech synthesiser. The programme also enables the computer screen to be shared with the ZoomText or SuperNova programmes.

7.1 Minimum system requirements

- Microsoft Windows 7.
- 2 integrated USB 2.0 ports.
- i3 processor, 1 GB RAM (32 bit) 2 GB RAM (64 bit).

7.2 Recommended system requirements

- Microsoft Windows 7.
- 1 integrated USB 3.0 port.
- i5 or i7 processor, 4 GB RAM, external graphics card with at least 512 MB inbuilt memory.

LVI has tested the software on several computers without any problems, but there is no guarantee that the system will function on all computers that comply with the specifications. LVI recommends testing the software on the computer where the system is to be used, in order to ensure compatibility. Better performing computers will facilitate better camera performance.



7.3 Installation of software

NOTE



Installation requires administrator privileges on the computer in question and is performed on the user account currently in use.

Insert the USB stick containing the software into one of the computer's USB ports. Start the installation by clicking on the "Setup" file, which can be found in the "MagniLink PCViewer" folder.

When the installation program starts, follow the instructions on the screen to complete installation of the software, or see below for a more detailed description.



Select "Next" in the dialogue box "Welcome to the InstallShield Wizard for MagniLink PCViewer".



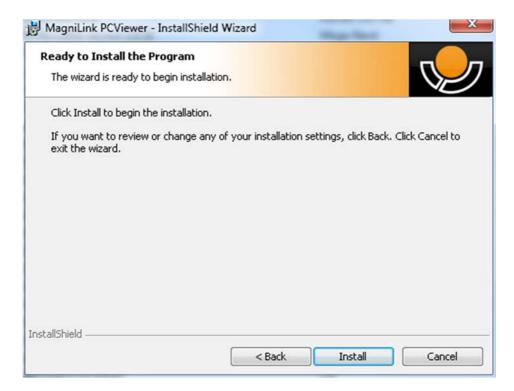


Read the text in "License Agreement", approve this by selecting "I accept the terms of the license agreement" and click on "Next" to start the installation.

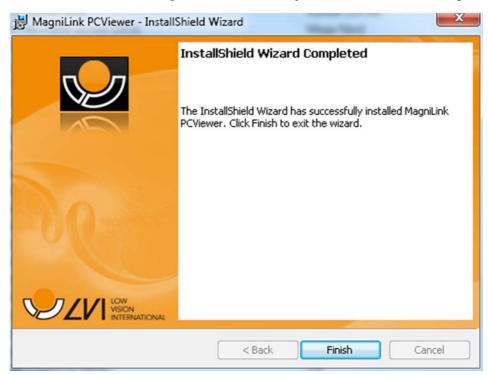


If you have a camera with OCR functionality, then mark the language(s) for which you have a license. If you do not have OCR functionality, then do not select any languages. Then click "Next" to continue with the installation.





Select "Install" in the dialogue box "Ready to Install the Program".



Select "Finish" in the dialogue box "InstallShield Wizard Complete".



7.4 Licensing

The camera system that is used with the software can be licensed with different functions.

- It is possible to license the system with or without OCR functionality.
- It is possible to license the system so that the software does not communicate with the internet.
- It is possible via the licence to remove the functions video recording and take picture.
- It is possible to license the system with voices in the following languages:

English (US), English (UK), German, French, Finnish, Italian, Dutch (BE), Dutch (NL), Swedish, Danish, Polish, Spanish, Portuguese, Norwegian, English (AU), Russian, French (CA), Arabic, Hebrew, Hungarian, Rumanian, Bulgarian, Czech, Slovakian, Croatian, Turkish, Greek.

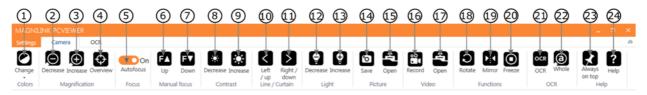


7.5 Using the software

The software can be started from the icon on the desktop, from the start menu or using the short cut command Ctrl + Alt + S.

7.5.1 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.



1. Change colours

Used to change between natural and artificial colours.

- 2. Decrease magnification
- 3. Increase magnification
- 4. 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.

5. 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.

6. Focus up

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

7. Focus down

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

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



10. 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.

11. Reference line/bar right/down

Same as the previous command but in the opposite direction.

- 12. Reduce lamp brightness
- 13. Increase lamp brightness

14. Take snapshot

A dialogue box "Save pictures" opens. A file name (with the day's date and time) and a folder (My Pictures) 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.

15. 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 Windows' standard picture-viewing programme 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.

16. Start/stop video recording

Press to open the "Save video clip" dialogue box. A file name (with the day's date and time) and a folder (My video clips) 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 dialogue box. Stop the recording by pressing the button again. To start video recording quickly, hold down "Shift" when you press the button.

17. 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 Windows' standard media player software. To view the most recently saved video recording quickly, hold down "Shift" when you press the button.



18. Rotate the camera image

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

19. Mirror the camera image

Press again to reverse the mirror image.

20. Freeze the camera image

Press again to release the freeze.

- 21. OCR process (Only shown if the system has a licence for OCR) When OCR processing is complete, the programme 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.
- 22. **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.

23. Always on top

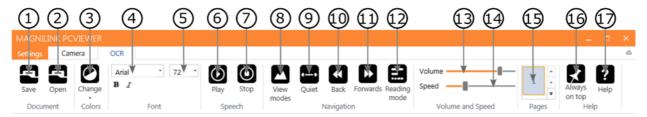
Activates/deactivates "always on top" If "Always on top" is activated, the camera image will be placed over other open applications. This means that another programme can be in focus and that you can for example use Word while looking at the camera image.

24. Help

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



The following tabs are only shown if the system has a licence for OCR.



1. Save documents

A dialogue box opens. A file name (today's date and time) is suggested automatically. It is possible to save the text as a Word file (.docx), PDF file, text file (.txt) or zip file.

2. Open documents

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

3. Change colours

Changes colours of the OCR processed text.

4. 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.

5. Font size

6. Start/Pause reading

7. Stop reading

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

8. Change display mode

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

9. Silent mode

Changes to a silent mode where the text moves sideways on the screen.

10. 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.



11. 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.

12. Switch reading mode

This command selects the reading mode that is to be employed when the "Read previous" or "Read next" command is entered. There are four modes: character, word, sentence and block.

13. Volume setting

14. Speed setting

15. Pages

Shows all OCR processed pages. Click one of the pages to change page.

16. Always on top

Activates/deactivates "always on top"

17. Help

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



7.5.2 Functions via the keyboard

Most functions can be handled using the keyboard. The short cut commands can be changed in settings. Below are the standard settings for the short cut commands.

F1 Natural colours

F2 Positive colours forwards

Shift + F2 Positive colours backwards

F3 Negative colours forwards

Shift + F3 Negative colours backwards

Up arrow Increase magnification

Down arrow Decrease magnification

Ctrl + O Overview mode

Ctrl + J Autofocus on/off

Shift + Up arrow Increase focusing distance

Shift + Down arrow Decrease focusing distance

Right arrow Increase brightness/contrast

Left arrow Reduce brightness/contrast

Ctrl + Left arrow Reference line left/up

Ctrl + Right arrow Reference line right/down

Ctrl + 6 Reduce lamp brightness

Ctrl + 7 Increase lamp brightness

Ctrl + R Rotate image clockwise

Ctrl + Shift + R Rotate image anti clockwise

Ctrl + I Reflect camera image

Ctrl + F Freeze camera image

Ctrl + A Always on top

F12 Open user guide

F9 Settings

F11 Standard settings

F7 Change camera resolution

Ctrl + C Copy image or text



Ctrl + M Minimise application

F8 Next view

Ctrl + F8 Previous view

Ctrl + Minus Reduce menu size

Ctrl + Plus Increase menu size

F5 Save picture

Shift + F5 Save picture quickly

F6 Open picture

Shift + F6 Open picture quickly

Ctrl + F5 Start video recording

Ctrl + Shift + F5 Start video recording quickly

Ctrl + F6 Open video

Ctrl + Shift + F6 Open video quickly

The following commands are only available together with cameras that are licensed for OCR.

F4 Start OCR

The text from OCR processing replaces existing text.

Shift + F4 Start OCR enter

The text from OCR processing is entered on a new

page.

Ctrl + L Whole image

Changes between whole image and cropped image.

Ctrl + S 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.

V Changes between camera tab and OCR tab

Alt + F5 Save documents

Alt + F6 Open documents

Alt + Up arrow Increase font size

Alt + Down arrow Decrease font size

1 Start reading



2 Stop reading

B Change display mode

N Silent mode

3 Read previous

4 Read next

5 Switch reading mode

Page Down Next page

If several pages have been scanned, you move to the

next page.

Page Up Previous page

If several pages have been scanned, you move to the

previous page.

Delete Remove the page in question

If several pages have been scanned, you remove the

page in question.

8 Reduce volume

9 Increase volume

6 Reduce speaking speed

7 Increase speaking speed

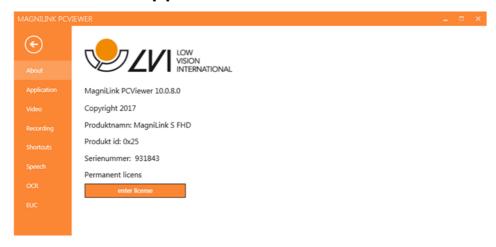
Ctrl + 0 Next voice



7.5.3 Information and settings window

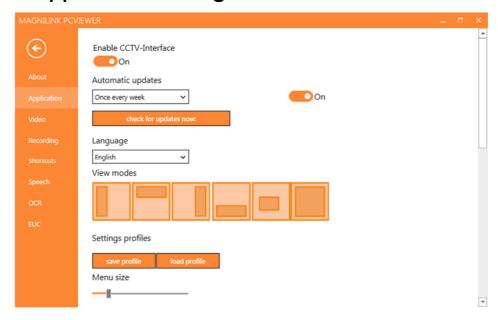
The Information and settings window consists of a number of different tabs that contain application information and alternative settings.

7.5.3.1 About the application



Information regarding the software version and copyright can be found under this tab. If you need to update the licence, this can be done by pressing the button "enter licence".

7.5.3.2 Application Settings



Activate CCTV interface

If this function is activated, MagniLink PCViewer supports working with the magnification software from ZoomText and SuperNova.



Automatic updates

This can be set if MagniLink PCViewer is to search for updates. You can also set how often it will search: "Once per day", "Once per week" or "Once per month". You can also choose to make updates manually by clicking "search for updates now" (note: an internet connection is needed for both automatic and manual updates).

Language

Change the language of the software. The software is set to use the same language as the computer's default. If this language is not available, English is automatically selected as default.

Available languages:

- English
- German
- Danish
- Spanish
- Finnish
- French
- Dutch
- Norwegian
- Swedish

Split screen mode

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

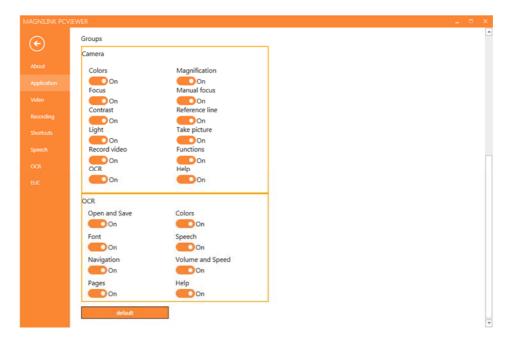
Settings profiles

It is possible to save and load settings profiles.

Menu size

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

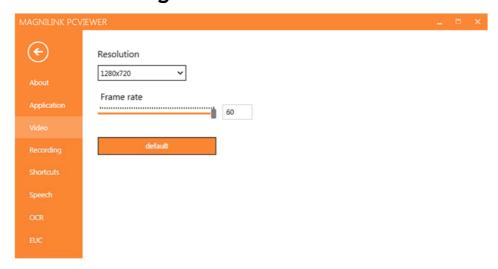




Groups

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

7.5.3.3 Video Settings



Resolution

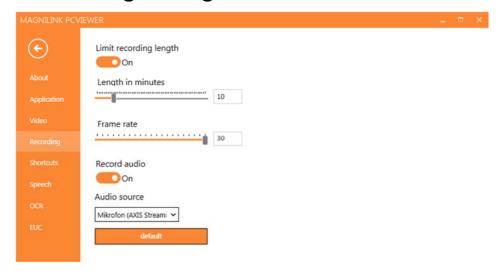
Select from the camera's various resolution options. At resolution 1280x720, the frame rate can be set up to 60 Hz. At resolution 1920x1080, only 30 Hz is possible.

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.



7.5.3.4 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 disc.

Record sound

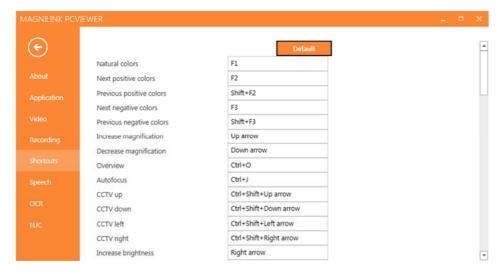
If your computer has a microphone (internal or external), sound can be added to the recording.

Sound source

Select which microphone is to be used to record sound for the video. Normally only one sound source may be selected.

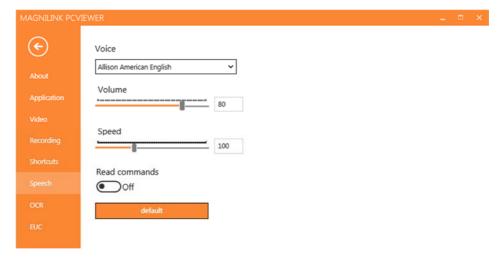


7.5.3.5 Short cut commands



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

7.5.3.6 Speech Settings



Voice

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

Volume

Setting the sound level of the voice.

Speed

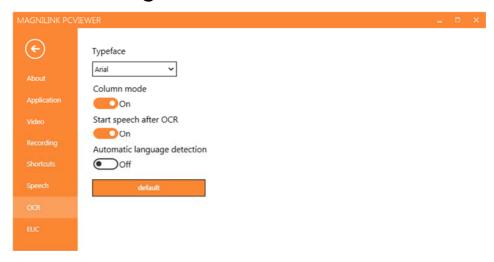
Setting the speaking speed.



Read command

When this is checked, the application reads out the menus when you use them.

7.5.3.7 OCR Settings



Font

Here the user can set which font is to be used to display the OCR processed text. The font that is used has no effect on the result of the OCR processing.

Column mode

When this setting is active, the OCR engine processes the text by column, which is useful if text from a newspaper is to be OCR processed.

Start speech after OCR

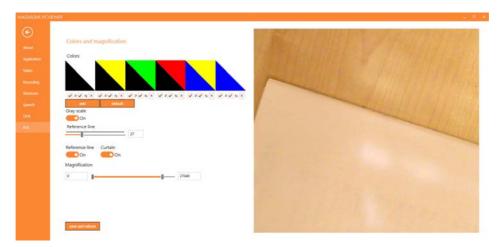
If this box is ticked, text will automatically be read aloud after an image has been OCR processed.

Automatic language identification

When this function is activated, the application attempts to identify the language that has been OCR processed and change the voice accordingly.



7.5.3.8 EUC



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

Artificial colours

It is possible remove and change the cameras artificial colours.

- 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 dialogue will appear. Select colours and press OK.
- To remove either the positive or the negative component. Click out box P or N.
- To restore the colours, press Standard.

Grey scale

Choose if you wish to have grey scale or not.

Reference line

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

Magnification

Set the maximum and minimum magnification.



7.5.4 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.
- 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 OCR engine's language is the same as that of the text.
- The camera's resolution should be set to at least 1280x720, see Video settings for more information.

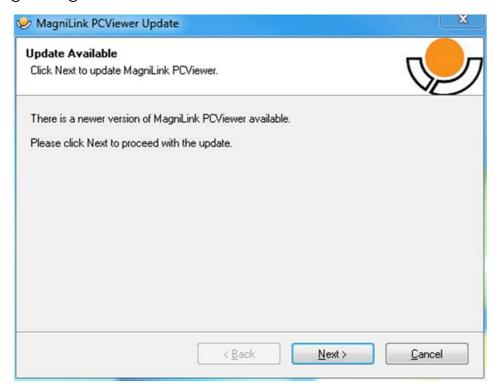


7.6 Update software

When a new version of the software is released, an update can be made. Follow the instructions below when the application finds a new version.

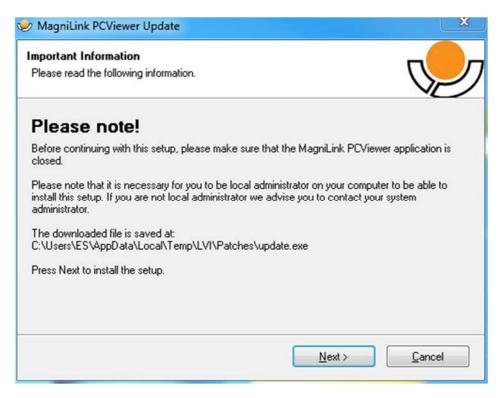


Click "Next" in the dialogue box "Welcome". If there is an update, the following dialogue box is shown.



Click "Next" in the dialogue box "Update available" to start downloading the update.



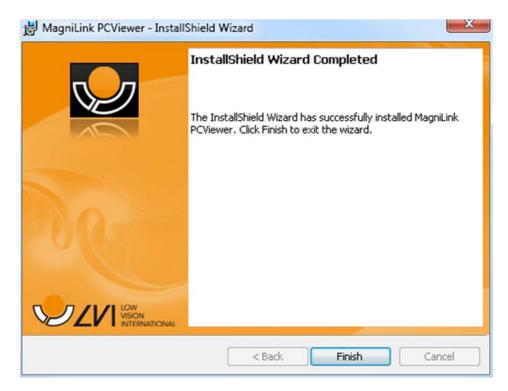


Ensure that you close MagniLink PCViewer before clicking "Next" in the dialogue box "Important information".



Click "Next" in the dialogue box "Welcome to the Patch for MagniLink PCViewer".





Click "Finish" in the dialogue box "Installshield Wizard Completed".



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 HD camera 1,4 - 75 x (15,4" 16:9 screen)

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

Power output 5 W

Power output, standby 1.7 W

Weight 1.7 kg

Refresh rate 60 Hz

Dimensions BxDxH 350x270x390 mm

Operational temperature 0 to 30°C

Storage and transportation temperature -20 to 60°C



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

according to the Medical Devices Directive, 93/42/EEC with amendments from directive 2007/47/EC

Type of equipment:	Reading Aid				
Brand name or tradema	ark: <i>MagniLink</i>				
Type designation:	MLS-HD, M	LS-FHD			
Product class:	Class 1.				
Manufacturer:	LVI Low Visio	n International AB			
Address:	Verkstadsgat S-352 46 Växj Sweden				
Web:	http://www.lv	<u>ri.se</u>			
Phone: Fax:	+46 470 - 72 +46 470 - 72				
 the product complies with the provisions of the Council Directive 93/42/EEC with amendments from directive 2007/47/EC. we will keep the technical documentation described in section 3 of Annex VII available to the national authorities for a period ending at least five years after the last product has been manufactured. the device meets the Essential Requirements of Annex 1 which applies to it, taking into account the intended purpose of the device. to follow the requirements regarding products placed on the market as described in section 4 of Annex VII. 					
Manufacturer	☐ Manufacturer´s authoriz	ed representative			
Date	Signature	Position			
12-11-2012	lui anden	Managing Director			
	Clarification				
	Erik Bondemark				



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