User Manual

MagniLink AIR - Chromebook

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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 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 Introduction to MagniLink AIR

Thank you for choosing this camera system. Our aim is for you to be satisfied with your choice of supplier and vision aid.

MagniLink AIR is a product line of magnifying camera systems designed for people with visual impairment. The system is available with several different cameras that can be combined in various ways. MagniLink AIR Uno with a combined distance and reading camera. MagniLink AIR Duo with a distance camera and a reading camera. MagniLink AIR Distance is a distance camera that connects to a computer via a network cable. You can also connect various LVI reading cameras to the system. The system offers features such as the ability to pan and tilt the camera, magnification settings, autofocus, several artificial colours, reading mode, mirror mode and distance mode settings, amongst other things. MagniLink AIR can stream video to a PC or a Mac.

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

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

- 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.
- Please follow the instructions in the document called "Assembly and Installation".
- Store cables and power supplies securely.
- LVI recommends having two persons present when mounting the unit to a ceiling.
- Make sure the system is installed correctly.
- Do not pull or hang on the system after installation.
- Be aware of crushing.
- Do not cover 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.
- 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 power cable and contact service staff or the product distributor. Only use spare parts that are specified by LVI.

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:

- Camera system
- User Guide
- USB memory stick with software

Make sure there is no external damage before opening the box. In the event of damage, contact the courier to report the damage. Open the box, take out the MagniLink AIR and remove the packaging parts. For further information, please see the chapter on 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 (EPEL E)
- 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

The controller (MLAIR-A013) can be used to control the system if you don't want to control the system from the computer.

The control unit (MLAIR-A012) is used if the system is not directly connected to a computer. The control unit contains pre-installed

software and cameras are connected to the control box, which in turn is connected to a screen. Includes a hand held control

MagniLink Framegrabber (MLAIR-A004). Used to transfer images from an external video source (e.i. a projector/smartboard) to the software.

Roof bracket (MLAIR-A014). Used if the ceiling is not using 60x60cm panels.

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

6 MagniLink AIR Distance

The distance camera is connected using the included network cable. The distance camera is available with various brackets.

Table bracket (MLAIR-DISTANCE).

Ceiling bracket (MLAIR-DISTANCE-C).

Wall bracket (MLAIR-DISTANCE-W).

7 MagniLink ChromeViewer

MagniLink ChromeViewer is a software used on a Chromebook to display images from a MagniLink camera system. The software controls camera properties such as magnification level, artificial colours and brightness. When a license is obtained, it is possible to OCR process a text and have it read by a speech synthesizer.

7.1 Minimum system requirements

- Chrome OS version 98
- 1 integrated USB 3.0 port.
- Intel Celeron, 2 GB RAM

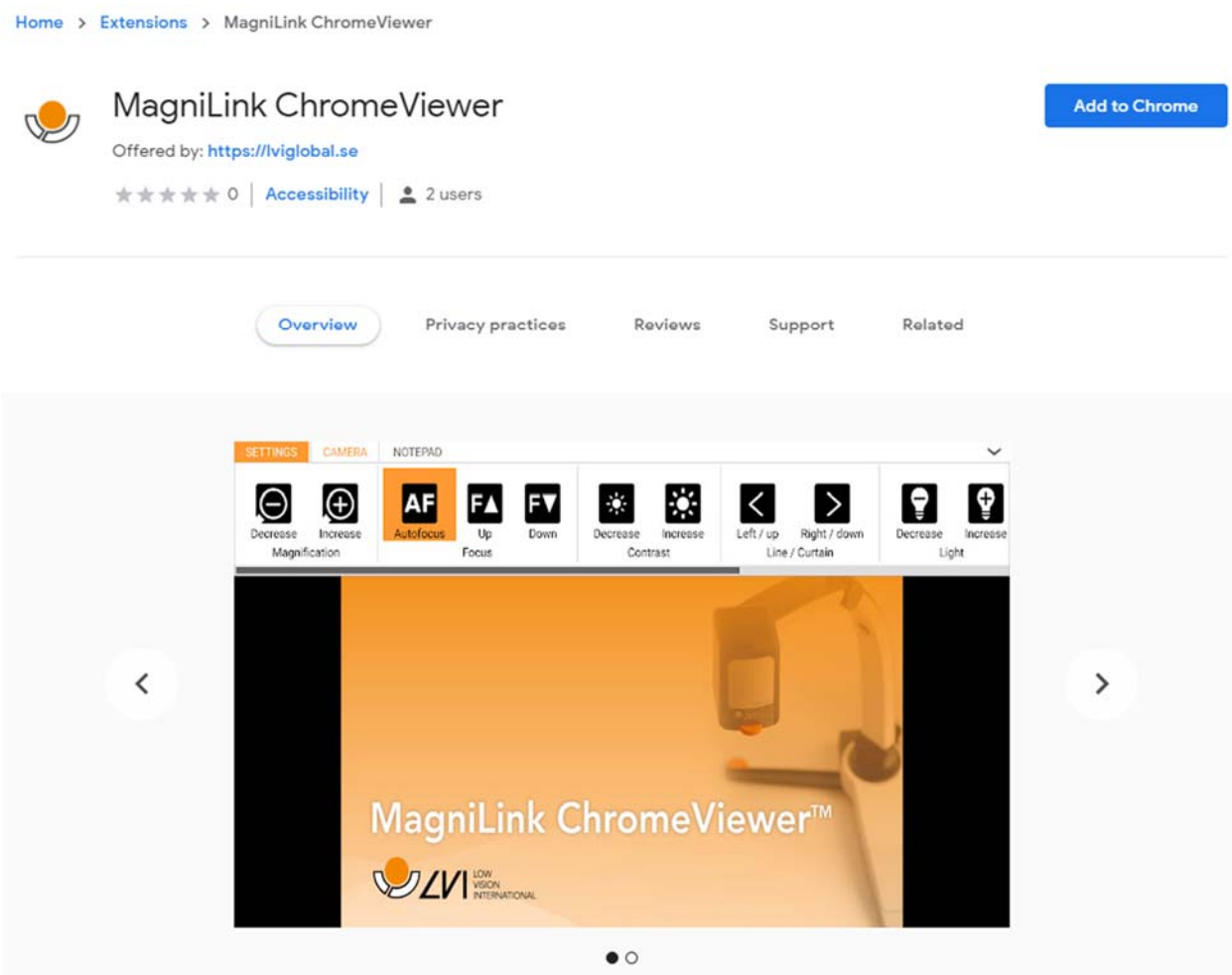
7.2 Recommended system requirements

- Chrome OS version 98
- 1 integrated USB 3.0 type A-port
- Intel i5 processor
- 4 GB RAM

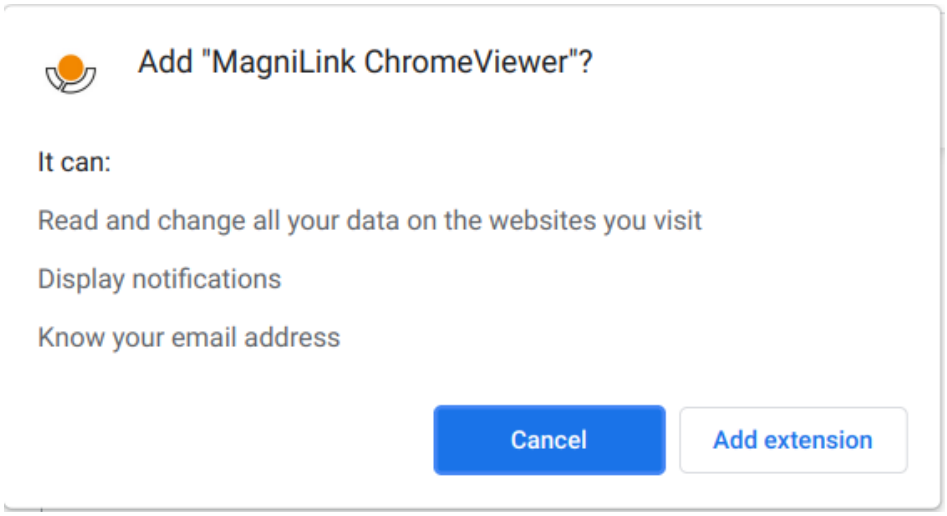
7.3 Installation of software

MagniLink ChromeViewer is available for download from the Chrome Web Store. In case you cannot find the application via the search function at the Chrome Web Store, there is a direct link on our website that will take you directly to the installation page.

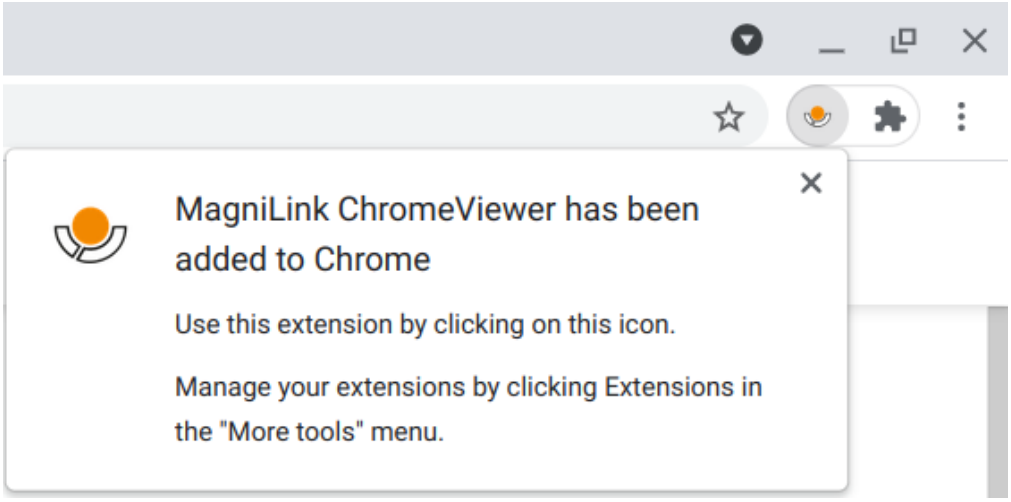
The link will open a new page with the Chrome Web Store and the MagniLink ChromeViewer will be selected automatically.



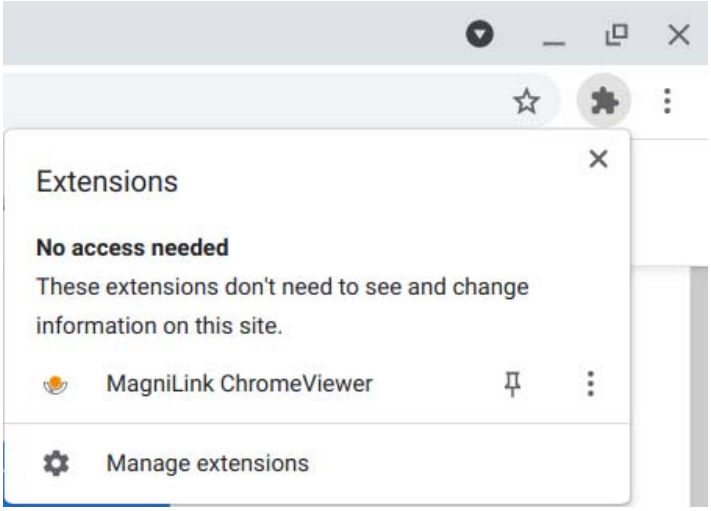
Press **Add** to start the installation.



You will then see an information box that explains what the application is able to do, click **Add app** to proceed.



The installation is now complete and you can start the application by following the instructions and clicking the highlighted icon. It is also possible, as described in the picture above, to press the App button to start the application.



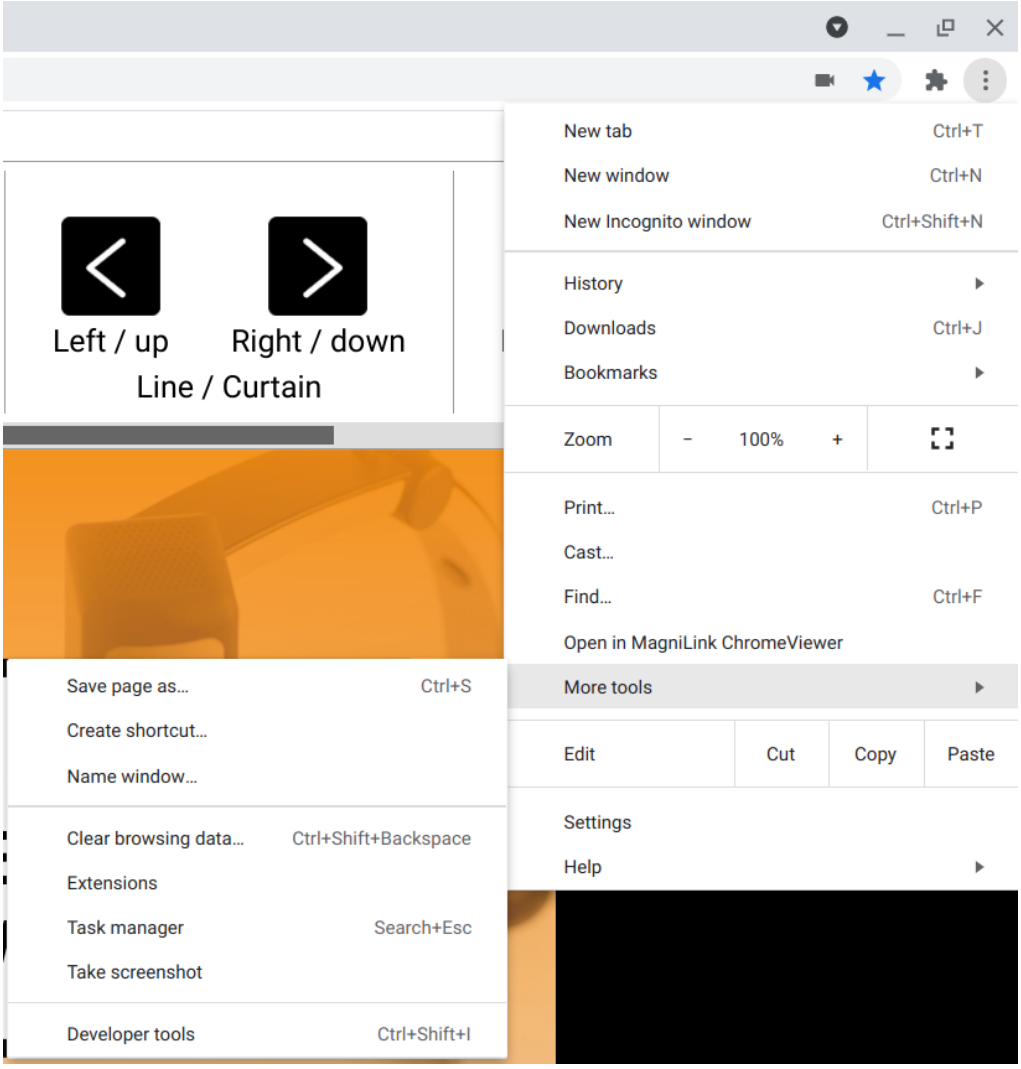
If you want access to MagniLink ChromeViewer in the App Launcher with the option to attach the application to the start area, do as follows.

1. Launch MagniLink ChromeViewer.
2. Go to Settings.
3. Press the **Copy URL** button located under the About settings page to copy the address to the app.

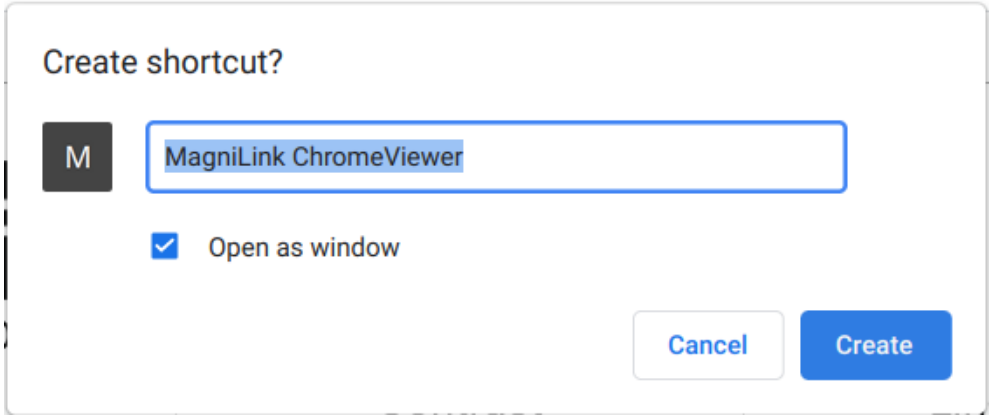
4. Launch the Google Chrome browser.

5. Select the address field and paste the copied address either by pressing **Ctrl + V** or by right-clicking on the address field and selecting **Paste**. Press Enter.

6. Under **More** at the top right, press **More Tools** and then **Create Shortcut.**



7. Select **Open as window**, then press **Create**.



In App Launcher you can also attach MagniLink ChromeViewer to the start area.

7.4 Licensing

Camera systems used with ChromeViewer can be licensed with OCR. ChromeViewer will automatically detect if your camera system is licensed for OCR.

It is also possible to activate an independent OCR license. Such activation requires you to give ChromeViewer access to certain information in your Google account, as the license key is applied to your Google account upon activation. This means that you will not be restricted to one computer but will be able to use any Chromebook with your Google account and still use OCR in ChromeViewer.

To give ChromeViewer access to your Google account, press the Sign in button under Settings and then follow the instructions. Upon successful sign-in, an input box is displayed where the license key is entered, then press OK. Upon successful activation, you will have direct access to OCR.

Note that OCR with ChromeViewer has the following limitations:

- An internet connection is required for licensing, as well as for the use of OCR in MagniLink ChromeViewer.

7.5 Using the software

7.5.1 LVI camera

To launch a USB LVI camera you must either press the Connect button, on the far left of the menu bar under the Camera tab, or the *L* shortcut. A dialog box containing a list of connected USB LVI cameras will then appear. Select the camera you want to start and then select Connect.

7.5.2 Functions via menus

The application consists of a window with tabs and groups of buttons. There is a tab for the application settings, a tab for handling the camera and a tab for Notepad. Depending on whether you have obtained a licence, there is also a tab for handling OCR-processed text.

7.5.2.1 Camera tab

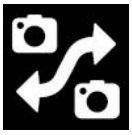
The following tab varies in the range of buttons depending on the number of camera systems connected.

Connect LVI camera

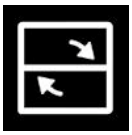
Decrease magnification

Increase magnification

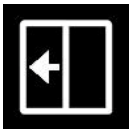
Change Image Source
Used to swap image sources (if there are more than two sources).



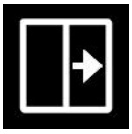
Change camera
Used to swap cameras.



Change split mode
Change between vertical and horizontal split mode.



Move split left
Moves split mode to the left.



Move split right
Moves split mode to the right.

Pan left

Pan right

Tilt down

Tilt up

Position 1
To save the position, hold down “Ctrl” while pressing the button. The camera image will then move into the saved position when pressing the button.

Position 2
To save the position, hold down “Ctrl” while pressing the button. The camera image will then move into the saved position when pressing the button.

Position 3
To save the position, hold down “Ctrl” while pressing the button. The camera image will then move into the saved position when pressing the button.

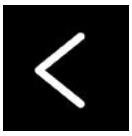
Lock Autofocus
Locks the autofocus mode. This feature is useful when you prefer to write by hand. The autofocus is not affected then by the pen or your hand. Press the button again to reactivate autofocus.

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

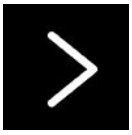
Focus down
Increase focus distance. When this function is used, autofocus is turned off

Reduce brightness/contrast

Increase brightness/contrast



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.

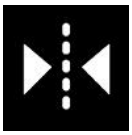


Reference line/bar right/down
Same as the previous command but in the opposite direction.

Take snapshot
A "Save file as" dialog box opens. A file name (with the day's date and time) and a folder (Downloads) are automatically suggested. Just press "Enter" to save the picture. If you want to save the picture somewhere else, you can change this manually.

Start/stop video recording
Press to open the "Save file as" dialog box. A file name (with the day's date and time) and a folder (Downloads) 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, it is possible to change this in the dialog box. Stop recording by pressing the button again.

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



Mirror the camera image
Press again to reverse the mirror image.

Freeze the camera image
Press again to release the freeze.

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.

OCR processing
Performs an OCR conversion of the camera window.

Notepad
Opens images from the camera in the notes tool.

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

7.5.2.2 OCR tab

The following tab is only shown if the system has an OCR license.

Open document (OCR conversion)
Opens a dialog box. From the dialog box, select the file you wish to open. It is possible to open image files in JPEG, PNG and PDF formats.

Import document
Import exported documents.

Export document
Export current document.

Save document
Save current document. The document will remain in the application, even on reboot, until you choose to delete the document.

Delete document
Delete the current document.

Play/Pause
Start/pause reading

Stop
Stops reading. The next reading will be from the start of the text.

Back
Use this command to step back through the text. If the reading mode is set to word, you step back through the text word by word. If the reading mode is set to sentence, you step back one sentence at a time.

Forward
Use this command to step forward in the text. If the reading mode is set to words, you step forward in the text word by word. If the reading mode is set to sentence, you step forward one sentence at a time.

Reading mode
This command switches reading mode to be used when the "**Back**" and "**Forward**" commands are pressed. Possible modes are letter, word or sentence.

View Mode
Switches the display mode for OCR converted text. The view modes available are "page view", "row view", "word view", "image view", "image and word" and "image and row".

Font size
Used to change the size of the OCR text.

Speed
Changes the speech speed.

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

7.5.2.3 Notepad tab

The notes tool consists of three components.

- At the top is a menu bar with buttons.
- To the left is a list of pictures. By clicking on a picture, you can navigate to it. You can delete a picture by clicking in the top right corner.
- A surface where you can draw, enlarge and pan in the picture.

Open
Open image. It is possible to open images in JPEG, PNG and PDF formats.

Export
Exports note. It is possible to export the active note as an image file or all the notes as a PDF.

Save
Save current note. The note will remain in the application, even on reboot, until you choose to delete the note.

Delete
Delete the current note.

Ballpoint pen
Draw with a ballpoint pen.

Highlighter
Draw with a highlighter.

Text
Insert text. You can move text around after inserting. However, you must fist press on the inserted text with the **Text** tool.

Zoom & Pan
Magnify and pan the image.

Eraser
Erase.

Undo
Undoes latest entry.

Redo
Recreates after pressing undo.

Rotate
Rotate the image. NOTE! This deletes all entries.

7.5.3 Functions via the keyboard

Global keyboard shortcuts	The following shortcuts apply to all tabs.
9	Information and settings window Various settings for the application can be made in this window.
Alt + 1	Go to the camera tab
Alt + 2	Go to the OCR tab
Alt + 3	Go to the Notepad tab
V	Switch between tabs
Ctrl + H	Hide or show the menu
8	Next window position Press the 8 key repeatedly to switch between the preset split screen modes on the primary screen. The window can also be controlled via the mouse or Chrome OS standard commands.
Ctrl + Plus	Enlarge menu
Ctrl + Minus	Reduce menu
Camera shortcut commands	The following shortcuts only apply to the Camera tab.
L	Connect LVI Camera Displays dialog to start the LVI camera connected.
1	Natural colours Switches between natural colours and greyscale.
2	Positive image with enhanced contrast Artificial colours; White/Black, Yellow/Black, Green/Black, Red/Black, Yellow/Blue, White/Blue. Press 2 repeatedly to switch between the different colours. (Shift + 2 to step backwards)

3	Negative image with enhanced contrast Artificial colours; White/Black, Black/Yellow, Black/Green, Black/Red, Blue/Yellow, Blue/White. Press 3 repeatedly to switch between the different colours. (Shift + 3 to step backwards)
4	Start OCR Start OCR with automatic reading. (Shift + 4 starts OCR without automatic reading)
5	Add note Add note and open Notepad. (Shift + 5 adds note but does not open Notepad)
Up arrow	Increase magnification
Down arrow	Decrease magnification
J	Autofocus Off/On
Shift + Up arrow	Reduce focus distance
Shift + Down arrow	Increase focus 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 + P	Take "snapshot" Press Ctrl + P to open the "Save file" dialog box. A file name (today's date and time) and folder are automatically suggested. Just press Enter to save the picture. If you want to save the picture somewhere else, or with another name, you can change this manually.
Ctrl + M	Start/stop video recording Press Ctrl + M to start video recording. Before recording, a dialog box appears with the suggested file name (today's date and time) and folder. Just press Enter to start video recording. If you want to save the video recording somewhere else, or with a another name, you can change this manually. Stop the recording by pressing Ctrl + M.
Ctrl + R	Rotate camera image clockwise Every time this key combination is pressed, the camera image will rotate 90° clockwise (90°, 180°, 270° and 0°).

Ctrl + Shift + R	Rotate camera image anticlockwise Every time this key combination is pressed, the camera image will rotate 90° anticlockwise (270°, 180°, 90° and 0°).
Ctrl + I	Mirror camera image Mirrors the camera image. This is a handy function if, for example, you want to use the camera as a magnifying makeup mirror.
Ctrl + F	Freeze camera image By pressing this key combination, the camera image freezes. To release the frozen image, press the same key combination again.
Ctrl + L	Full screen Switches between full screen and cropped image
A	Pan left
D	Pan right
W	Pan up
S	Pan down
C	Change camera
X	Change split mode
Z	Change image source
Shift + left arrow	Move split left/up
Shift + right arrow	Move split right/down
Ctrl + Shift + 1	Save position 1
Ctrl + Shift + 2	Save position 2
Ctrl + Shift + 3	Save position 3
Ctrl + 1	Go to position 1
Ctrl + 2	Go to position 2
Ctrl + 3	Go to position 3

OCR keyboard shortcuts

The following keyboard shortcuts only apply to the OCR tab

1	Play/pause reading
2	Stop reading
3	Previous word/sentence/letter
4	Next word/sentence/letter
5	Switch between navigation by words, sentences or letters
B	Change display mode
7	Reduce speaking speed
8	Increase speaking speed

Notepad keyboard shortcuts

The following keyboard shortcuts only apply to the Notepad tab

Ctrl + Z	Undo
Ctrl + Shift + Z	Redo
Ctrl + S	Save note
Del (Delete)	Delete note
Ctrl + R	Rotate image right
Ctrl + Shift + R	Rotate image left
1	Select ballpoint pen
2	Select highlighter
3	Select the text tool
4	Select the magnification and panning tool
5	Select eraser
Ctrl + 1	Previous colour of drawing tool
Ctrl + 2	Next colour of drawing tool
Ctrl + 3	Reduce size of drawing tool
Ctrl + 4	Increase size of drawing tool

7.5.4 Mouse control

Certain functions can be controlled with the mouse.

In camera mode.

- If the camera supports panning, the left mouse button can be used to pan the image.
- Zoom using the right mouse button.

In OCR mode

- The left mouse button is used to start the reading. You can also select a word to continue reading from the selected word.
- The scroll wheel can be used to enlarge or shrink the image.

7.5.5 Information and settings window

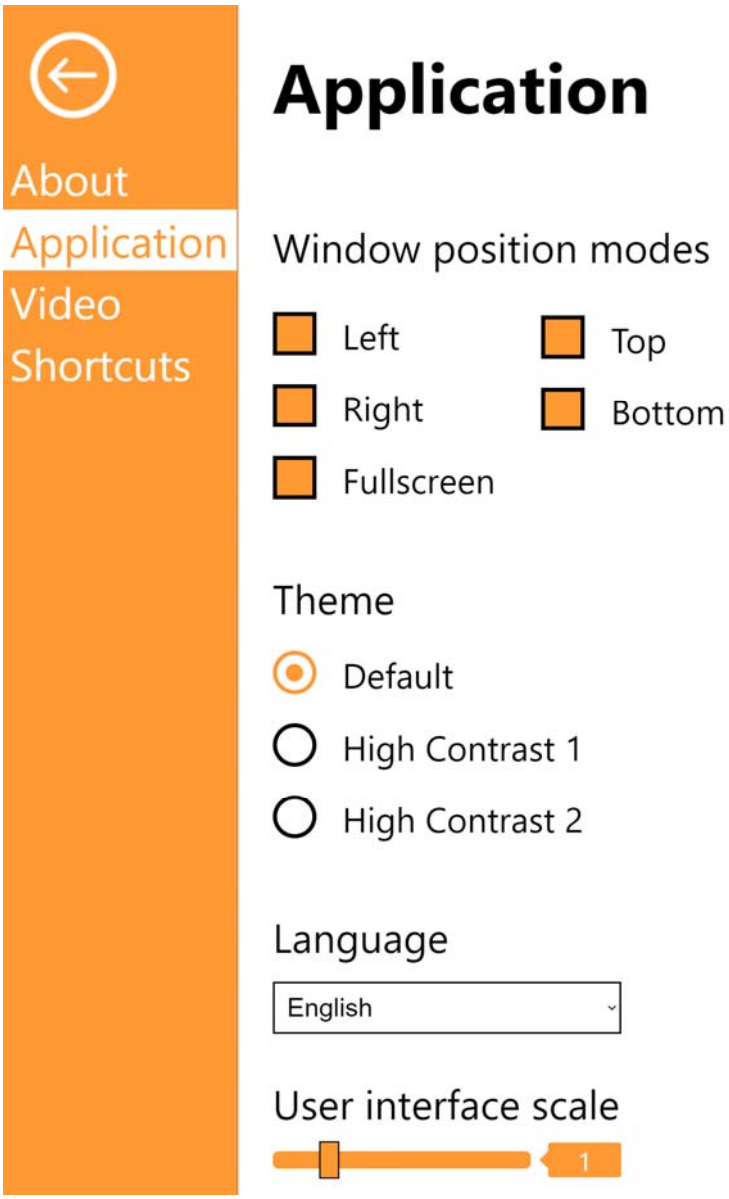
The Information and settings window consists of a number of different tabs that contain application information and alternative settings.

7.5.5.1 About the application

This tab contains information about software version, copyrights and license information.

If you want to activate an obtained OCR license to your Google account, this is where you log in and enter the license key.

7.5.5.2 Applications Settings



Window modes
Select which different window modes to be selected when pressing the 8 key.

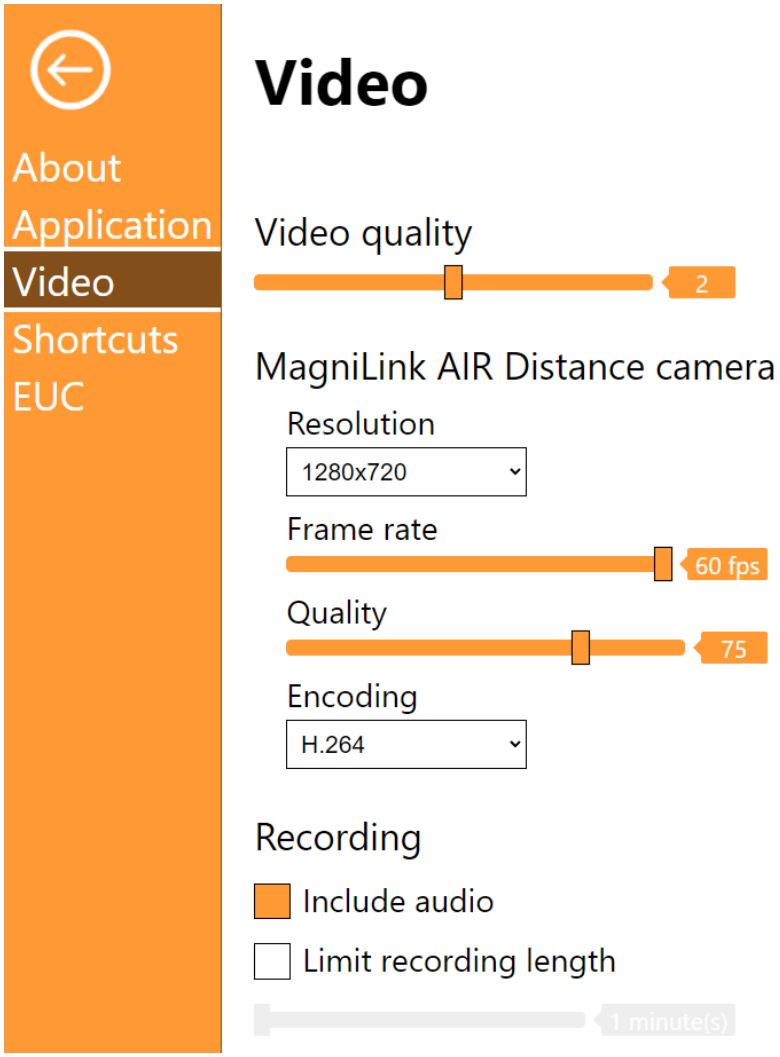
Theme
Select the theme to be active. The theme controls which colour set the application should have.

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.

Menu size
Here you can change the size of the menus and buttons.

7.5.5.3 Video Settings



Video Quality
This setting allows the user to increase or decrease the video quality of the application. For the best balance between performance and quality, the setting should be left untouched, but it may be advisable to decrease for low-performance computers.

Resolution
Select from the camera's various resolution options. Resolution cannot be selected for all cameras.

Image rate
This setting allows the user to limit the image rate. The image rate cannot be changed for all cameras.

Image quality
This setting allows the user to limit the camera's image quality. The image quality cannot be changed for all cameras.

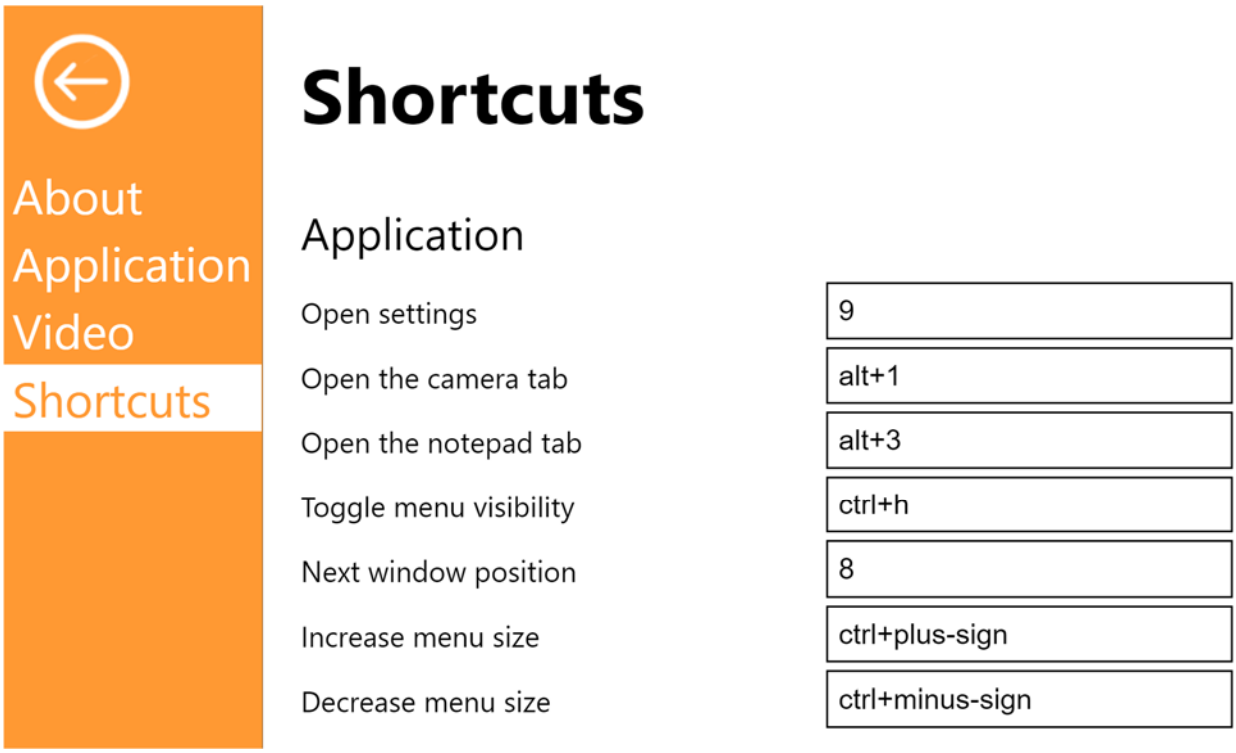
Record audio
Activate this function to record audio with a connected microphone.

Limit recording length
Activate this function to limit the recording length.

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

MagniLink ChromeViewer can record video clips from a MagniLink camera system to WebM (.webm) format. The video recording is started using the keyboard (Ctrl + M). A red indicator is displayed at the bottom right of the video window while video is being recorded.

7.5.5.4 Settings for short cut commands



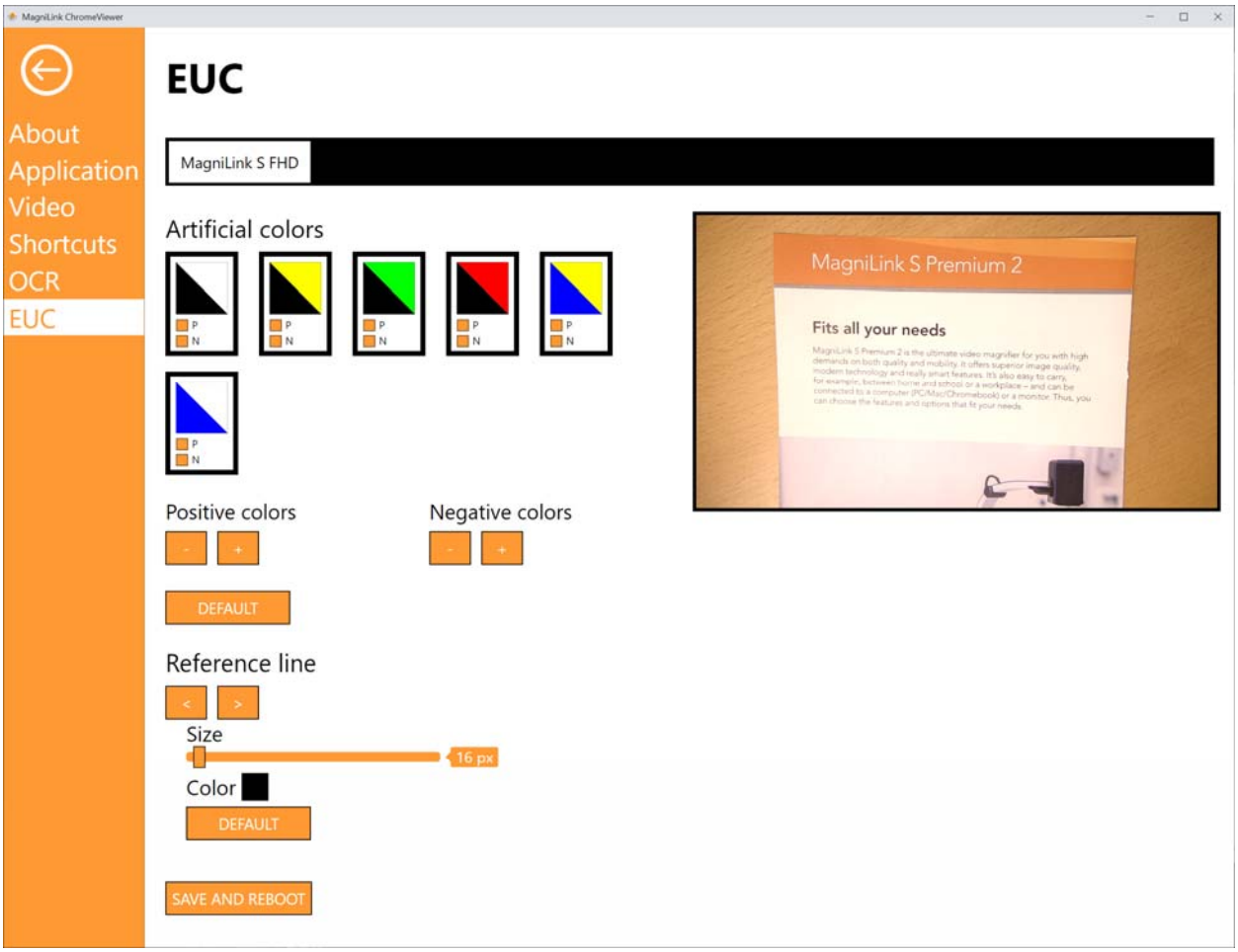
Here the short cut commands used for the application can be changed. To change a short cut command, tab to the command that is to be changed and then press Space or Enter and then enter the new keyboard combination. If a combination already being used for another command is entered, the other command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

7.5.5.5 OCR Settings

Voice
Select which voice to use for future OCR conversions.

Region
Choose which data centre should perform the OCR conversions. The closer to your current location, the faster the OCR conversions will be performed.

7.5.5.6 EUC



The camera can be configured under this tab. If there is a "Save" button at the bottom, it must be pressed to save the changes. When doing this, the camera restarts and the configuration has been saved.

Artificial colours

It is possible to remove and change the artificial colours of the camera.

- To remove either the positive or the negative component. Deselect box "P" or "N".
- To remove a colour combination, deselect both "P" and "N".
- To change a colour combination, press one of the triangular fields and a colour dialog will appear. Select colours and press OK.
- To restore the colours, press "Default".

Reference line

Set the size and colour of the reference line. Press "Default" to reset.

7.5.6 Quality of OCR conversion

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

- 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 of the reading camera.
- Avoid glossy paper as this gives 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.

8 Ergonomics

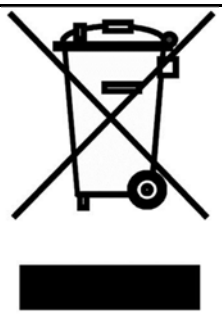
Your reading camera is now ready to use. It is important that the workplace around your MagniLink is comfortable, and that you sit correctly. This is so that you can use the camera for as long as possible without putting undue strain and stress on your neck and back.

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.
- Shield off 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 Technical information

Magnification, distance camera	30x optical zoom + 12x digital zoom
Resolution, distance camera	HD (1280x720)
Frequency, distance camera	50 Hz
Weight, distance camera	2 kg
Power source	AC
Power consumption	30 W
Acceptable temperature ranges	Transport and storage -20 °C – +60 °C Operation: +5 °C – +35 °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.

10 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):	*7330724MLAIRV9*
Brand name or trademark:	*MagniLink*
Product code:	***MLAIR***
Classification:	*Class 1*
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:* *Class [1]: EC conformity declaration according to Annex I + Annex II +Annex VII*

This declaration of conformity is issued under the sole responsibility of LVI Low Vision International AB. We hereby declare that he medical device(s) specified above meet the provision of the Regulation (EU) MDR 2017/745 for medical devices. 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
28-06-2021		Managing Director
	Clarification Henrik Blomdahl	

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