User Manual

MagniLink ChromeViewer

LVI Low Vision International
Verkstadsgatan 5 Tel: +46 470-727700 info@lvi.se
SE-352 46 Växjö Faks: +46 470-727725 www.lvi.se

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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 Introducing MagniLink ChromeViewer

MagniLink ChromeViewer is a programme used on a Chromebook to display images from a MagniLink camera system. The programme can control the camera properties, such as magnification level, artificial colours and brightness.

2.1 Minimum system requirements

- Chrome OS version 59
- 2 integrated USB 2.0 ports.
- Intel Celeron, 2 GB RAM

2.2 Recommended system requirements

- 1 integrated USB 3.0 type A port.
- Intel i5 processor
- 4 GB RAM

LVI recommends using an Intel-based Chromebook together with a MagniLink camera since we have noticed compatibility problems with ARM-based Chromebooks.

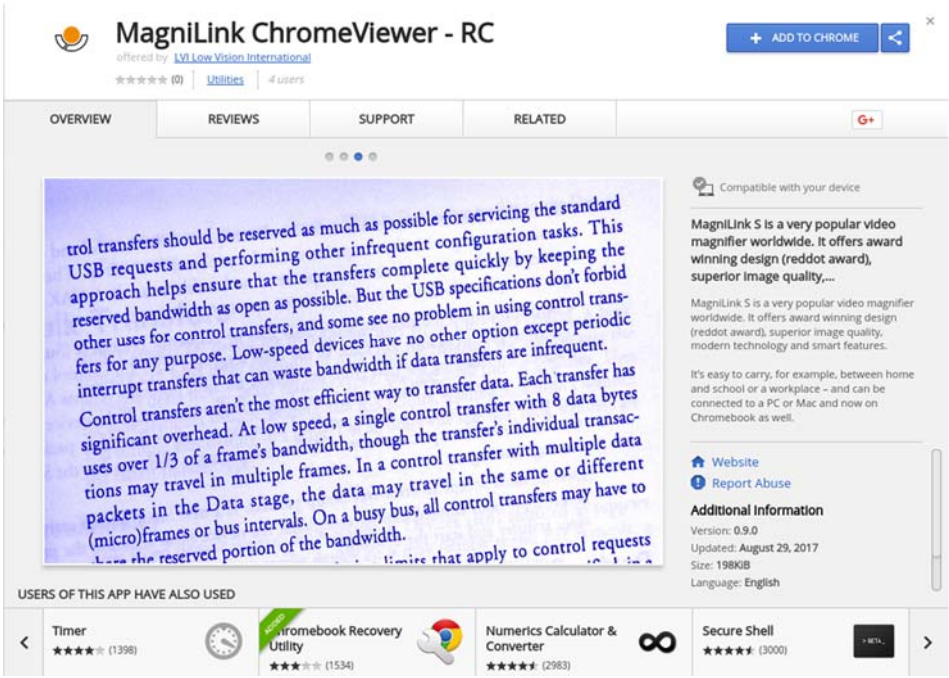
A USB 3.0 Y may be needed to supply sufficient power to the MagniLink camera system. A USB Y cable permits the use of 2 USB ports to drive a MagniLink camera system.

LVI has tested the software on a number of Intel-based Chromebooks without problems, but there is no guarantee that the system will work with all Chromebooks that follow the specification. LVI recommends testing the software with the Chromebook where the system is to be used, in order to ensure compatibility. Better performing computers will facilitate better camera performance.

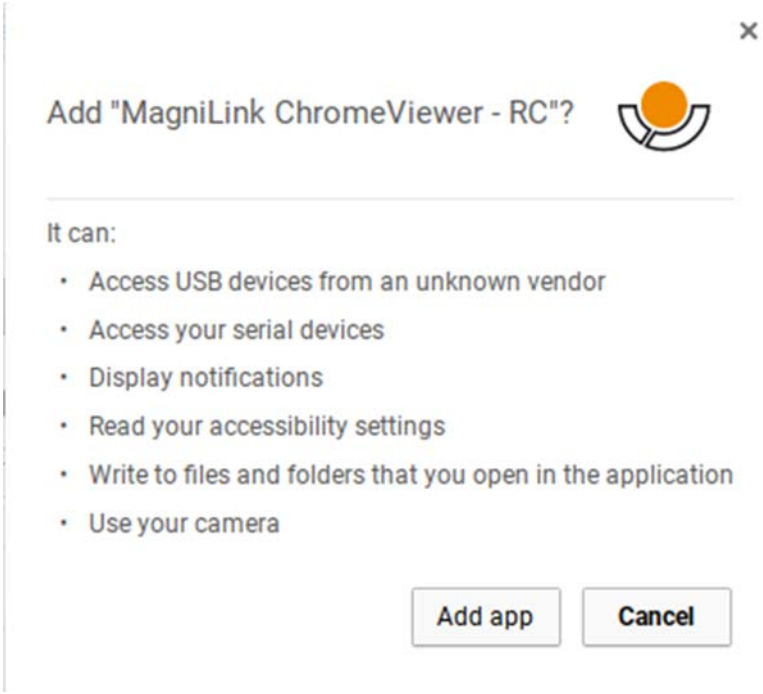
3 Installation of software

MagniLink ChromeViewer is available for download via the Chrome Web Store. If you cannot find the application with the search function on the Chrome Web Store, there is a direct link on our website that takes you to the installation page.

The link opens a new page with the Chrome Web Store and the MagniLink ChromeViewer is selected automatically.



Click **ADD** to start the installation.



You will then see an information box explaining what the application is able to do; click **Add app** to go on.

When the installation is finished, you can start the application by clicking **START APP** or search for the application via App Launcher.

Via App Launcher you can also permanently add MagniLink ChromeViewer to the start area.

4 Using the software

4.1 Functions via the keyboard

The MagniLink camera is shown as a Chrome App and most functions can be managed via the keyboard. Various menus allow the short cut commands to be changed. Below are the standard settings for the short cut commands.

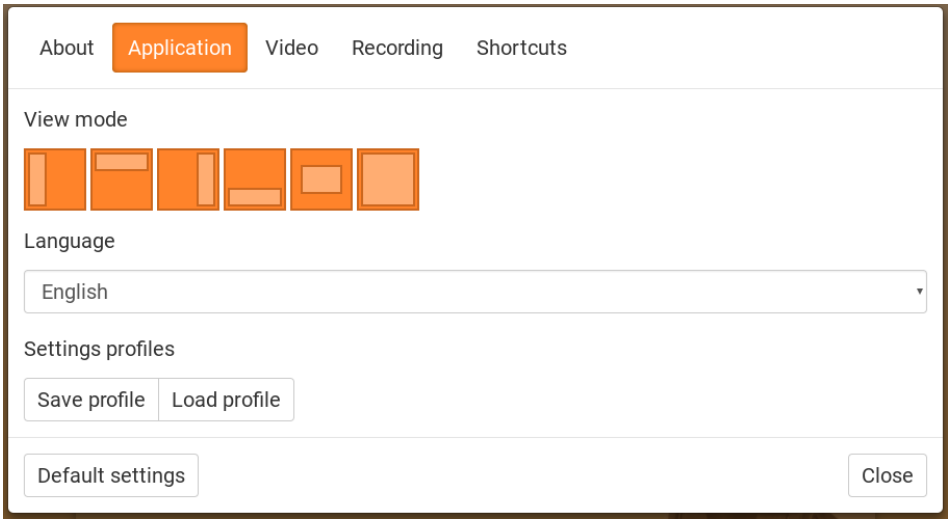
1	Natural colours
2	Positive image with heightened contrast Artificial colours; White/Black, Yellow/Black, Green/Black, Red/Black, Yellow/Blue, White/Blue. Press 2 repeatedly to switch between the various colours. (Shift + 2 to cycle backwards)
3	Negative image with heightened contrast Artificial colours; White/Black, Black/Yellow, Black/Green, Black/Red, Blue/Yellow, Blue/White. Press 3 repeatedly to switch between the various colours. (Shift + 3 to cycle backwards)
Ctrl + P	Take a snapshot Press Ctrl + P to open the "Save file" dialogue box. 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 wish 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 recording. Stop recording by pressing Ctrl + M. When recording stops, the dialogue box "Save file" opens. 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, you can change this in the dialogue box.
8	Preset split screen mode Press 8 repeatedly to switch between the preset split screen modes for the primary screen. The window can also be controlled via the mouse or with Chrome OS standard commands.
9	Information and settings window Under this window, different settings for the application can be applied.

0	**Scan for LVI camera** Press 0 to scan for a MagniLink camera system. This can be useful if several LVI cameras are connected to the computer. In this case a dialogue box opens from which the active camera for the application can be selected. If the camera does not start for some reason, it can also help to scan for a MagniLink camera system.
Up arrow	**Increase magnification**
Down arrow	**Decrease magnification**
Left arrow	**Reduce light intensity/contrast**
Right arrow	**Increase light intensity**
Ctrl + Left arrow	**Reference line left/up**
Ctrl + Right arrow	**Reference line right/down**
Ctrl + R	**Rotate the 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 the camera image anticlockwise** Every time this key combination is pressed, the camera image will rotate 90° anticlockwise (270°, 180°, 90° and 0°).
Ctrl + I	**Reflect camera image** Reflects the camera image. This is a handy function if, for example, you want to use the camera as a magnified cosmetic mirror.
Ctrl + F	**Freeze camera image** By pressing this key combination, the camera image freezes; to release the image, press the same key combination again. To save a frozen image, press Ctrl + F.
Ctrl + A	**Deactivate/activate "always on top"** Short cut command activates the ”Always on top” function for the application window. 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 for example use Google Docs whilst looking at the camera image.
Ctrl + 6	**Reduce lamp brightness**
Ctrl + 7	**Increase lamp brightness**

4.2 Information and settings window

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

4.2.1 Applications Settings



Split screen mode

Select which of the split screen modes to use by pressing 8.

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.

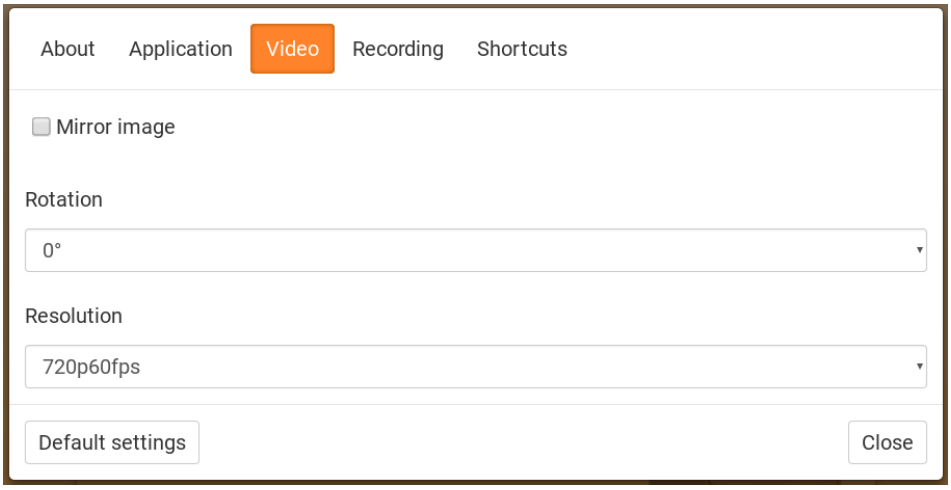
Available languages:

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

Profile

Import or export settings Use the Export Settings button to easily save the current settings configuration to the hard disc or to Google Drive, for example. Use the Import Settings button to import your exported settings.

4.2.2 Video Settings



Mirror image

When this function is active the camera image is mirrored.

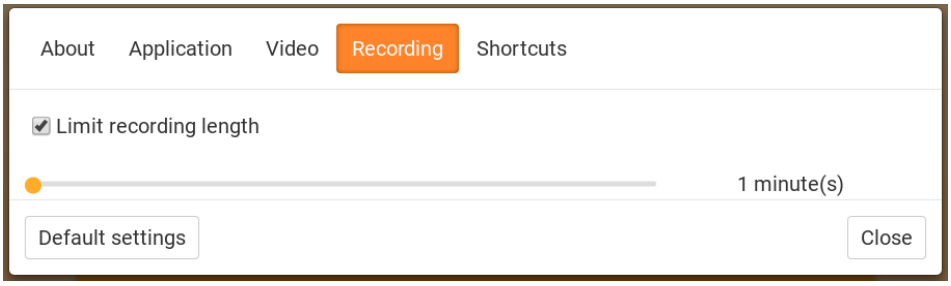
Rotate image

The angle of rotation of the camera image can be set here. MagniLink ChromeViewer supports rotation of the camera image to the following angles: 0°, 90°, 180° and 270°.

Resolution

Select from the camera's various resolution options. The best picture quality is achieved by selecting the highest resolution. A lower resolution may be needed if the application is used on a computer with low performance.

4.2.3 Recording Settings



Limit recording length

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

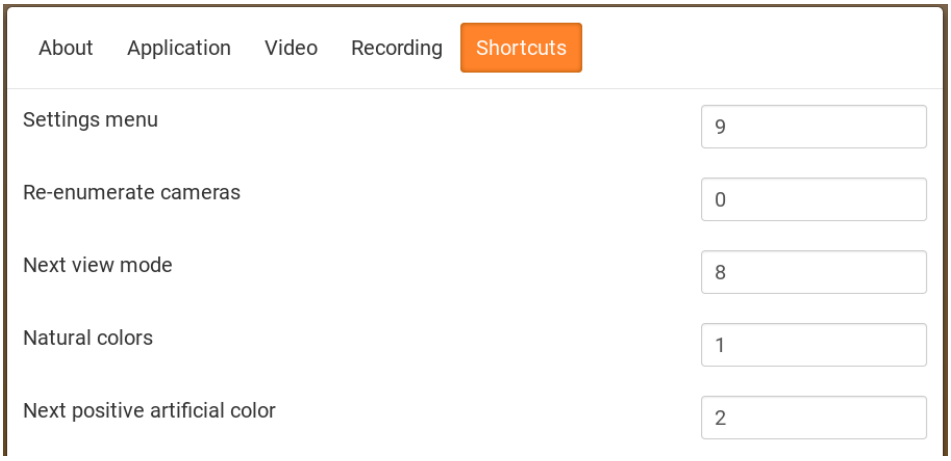
Length in minutes

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

Carefully read the following information before using the video recording function.

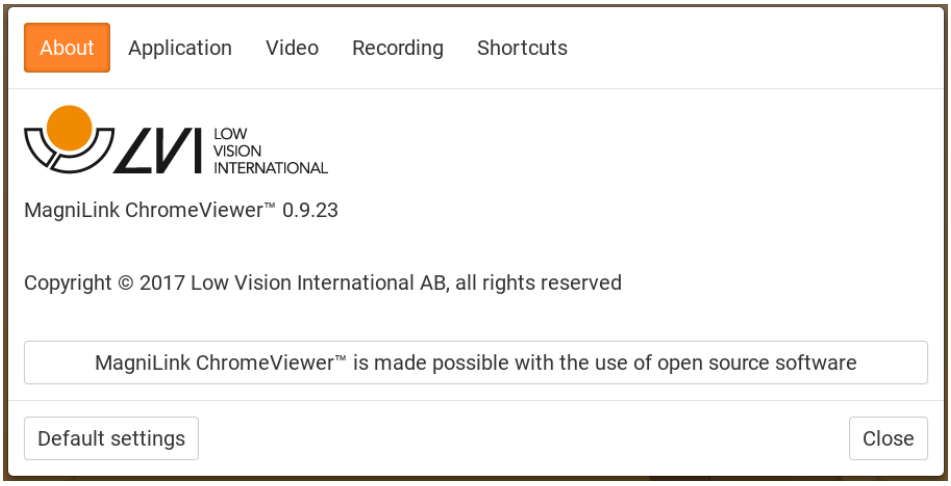
MagniLink ChromeViewer can record video sequences from a MagniLink camera system to WebM (.webm) format. It is not possible to record sound. The video recording is started with the keyboard (Ctrl + M) and a red indicator is displayed at the bottom right of the video window while video is being recorded.

4.2.4 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.

4.2.5 About the application



Information regarding the software version and copyright can be found under this tab.

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