LOW VISION INTERNATIONAL

# User Manual

## MagniLink One

CE

**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 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 One

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

MagniLink One is a video magnifier designed for people with visual impairment. The video magnifier offers features including autofocus, several artificial colours and the option of adjusting the brightness. MagniLink One has a height adjustable screen and it is also possible to collapse your MagniLink One when the system is not being used or for transportation.




| Model | Reading table |
|---|---|
| ML-ONE-3V | No |
| ML-ONE-3A | Yes |

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

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

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

## 2.1 Product information

**Clinical benefit**
Magnifiers empower the user, helping to instill independence, increase productivity, and improve self-esteem. In short, those who struggle with daily tasks due to low vision find their quality of life enhanced by utilizing magnifiers.

**Intended use**
Portable/transportable low vision magnifier.

**Intended use environment**
Home, office or school.

**Intended user**
People with a visual impairment.

# 3 Safety information

- Only use the power adaptor supplied with the product. Using an incorrect type of power adapter may cause damage to the system.
- 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.
- 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.
- Be careful not to catch your fingers when collapsing the product or when adjusting the position of the screen. Do not place any objects on the reading table when the product is collapsed as they can damage the screen.
- 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.
- Always switch off the power when the system is not being used.
- Serious incidents that have occurred in connection with the product shall be reported to the manufacturer and to the competent authority in the Member State where the user is established.

If in doubt, contact your supplier.



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

# 4 Unpacking

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

- Reading camera
- Power adaptor
- Carrying case
- User Guide

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

Open the box, take out the MagniLink One and 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)

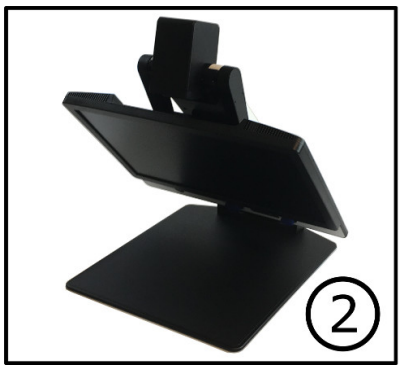
For sorting and collection of packaging material, please call the packaging collection customer service department for information on the rules that apply in your municipality.

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

# 5 Installation

## Open your unit







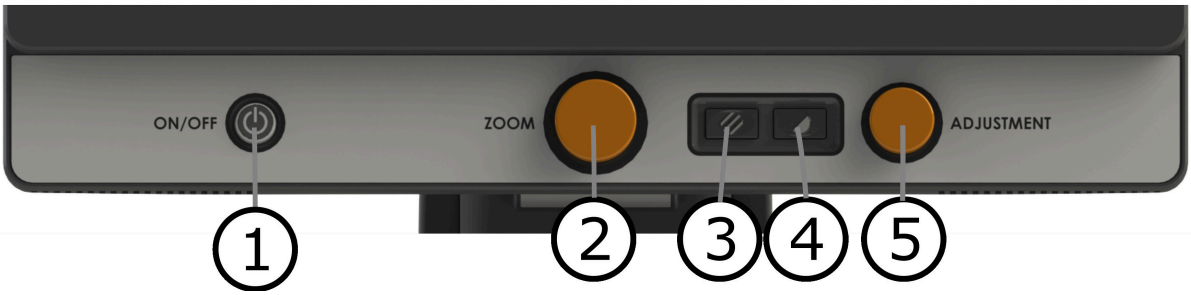
1. Place your unit on the table in front of your seat.
2. Take hold of the unit's arm and turn it upwards until you hear it click into place.
3. Turn the screen up to the desired position.




4. Connect the mains adapter to the rear of the unit and to the wall socket. The unit is now ready to be used.

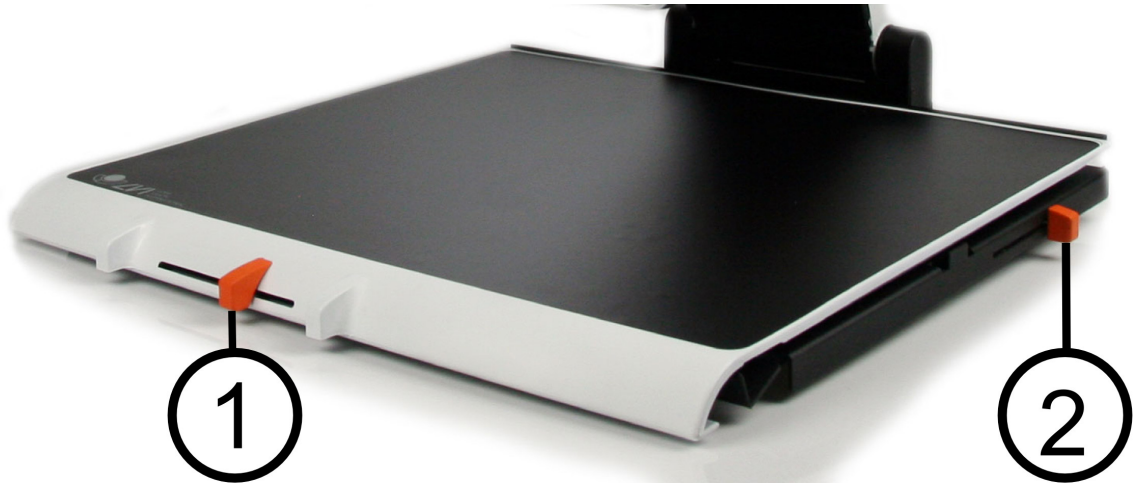
# 6 Use

## 6.1 Panel




1. **Power on/off with LED**
   Press to start or shut down the system. Press for more than six seconds to do a reset. A green light indicates that the unit is on. A flashing yellow light means that autofocus is switched off. The light flashes green when the system is starting.
2. **Magnification control**
   Used to set the magnification. To reduce the magnification, turn anticlockwise and to increase the magnification, turn clockwise. Press the button to reduce magnification to overview mode. Press the button again to restore the magnification. With a long press, autofocus mode is locked. This feature is useful when you prefer to write by hand. Autofocus is not affected then by the pen or your hand. With a new long press, autofocus mode is restored.
3. **Picture mode**
   Press the button to switch the picture mode between natural colours and grey scale.
4. **High contrast mode with artificial colours**
   Press the button to switch between the various colour combinations.
5. **Function control**
   Use to set the brightness / contrast. To reduce, turn counterclockwise and to increase, turn clockwise. With a long press, until the panel diode lights up yellow, you get to a mode where you can set the reference line or the bar. A short press in this mode switches between vertical and horizontal reference line/bar. If you turn the control in this mode, you set the position of the reference line or bar. With a new long press, you leave the mode.

## 6.2 Reading table




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

# 7 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.

# 8 Troubleshooting

No image is displayed on your MagniLink One after you start the system:

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

Never disassemble any covers to try to repair the system yourself.

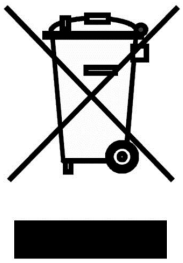
# 9 Technical information

General characteristics

| | |
|---|---|
| Dimensions collapsed | 440 x 470 x 120 mm (W x D x H) |
| Dimensions, opened up | 440 x 470 x 560 mm (W x D x H) |
| Dimensions of packaging | 490 x 560 x 220 mm (W x D x H) |
| Weight | 4,3 kg |
| Monitor, resolution | 1920x1080 |
| Camera, resolution | 1920x1080 |
| Magnifying area | 1,4x – 45x |
| Frame rate | 60 Hz |
| Power adapter, AC input | 100-240 V, 50-60 Hz |
| Power adapter, DC output | 12 V, 5.41 A |
| Power adapter, power | 65 W |
| Focal range | 0-60 mm (at maximum magnification) |
| Contrast | 400:1 |
| Lighting | LED |
| Free working height beneath the camera | 300 mm |
| Power | 14-20 W |
| Relative humidity | <80% |
| Temperature range | Transportation & Warehousing: -20°C - +60°C<br>Operation: +5°C – +35°C |

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

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



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

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

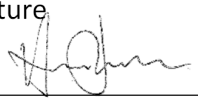
# 10 Declaration of Conformity

## DECLARATION OF CONFORMITY

| | |
|---|---|
| Manufacturers name: | *LVI Low Vision International AB* |
| Manufacturers Address: | *Verkstadsgatan 5*<br>*S-352 46 Växjö*<br>*Sweden* |
| Web: | *http://www.lviglobal.se* |
| SRN (Single Registration Number): | *SE-MF-000004178* |
| Basic UDI-DI (GMN): | *7330724MLONEX4* |
| Brand name or trademark: | *MagniLink* |
| Product code: | ***ML-ONE*** |
| Classification: | *Class 1* |
| Type of equipment: | *Reading Aid* |
| Conformity assessment route: | *LVI Low Vision International AB uses the procedures for the CE-labeling of their products according to Article 52(7) of Regulation MDR 2017/745.* |

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

☒ Manufacturer ☐ Manufacturer's authorized representative

| Date | Signature | Position |
|---|---|---|
| 20-05-2021 |  | Managing Director |

Clarification

Henrik Blomdahl

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