# User manual

# MANO EDU lite

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**Please read this user manual carefully prior to installation, use and maintenance for your own safety and in order to avoid damages on your system.**

REINECKER

## Content

**I. General Information ..... 5**
I.I General Information – valid for MANEDLI1 ..... 6
I.II General Information – valid for MANEDLI1LV ..... 8
**II. Safety instructions ..... 9**
**III. Instructions ..... 10**
Scope of supply ..... 10
Accessories ( optional ) ..... 10
Commissioning ..... 10
Charging the battery ..... 10
Power indicator ..... 10
Setting up MANO EDU lite ..... 11
Unfolding the MANO EDU lite stand ..... 11
Folding the stand ..... 11
Attaching the distance camera ..... 11
Description of the controls ..... 12
Operation ..... 13
Turning ON/OFF ..... 13
Home-/menu button ..... 13
Zoom ..... 13
Full-page reading (with plug-in distance camera) ..... 14
The menu bar in zoom mode ..... 14
Brightness ..... 14
Adjusting the contrast (in semi color mode) ..... 14
Volume ..... 15
Color mode ..... 15
Operating the cameras ..... 15
Switching between close-up and long-distance view ..... 15
Switching between rear camera/front camera ..... 15
Switching between external and internal camera ..... 15
Functions of the external camera ..... 16
Orientation aids in the magnified image ..... 16
Image position ..... 16
Line ruler and line mask ..... 16
Overview mode ..... 17
Live Panning ..... 17
Freeze frame function ..... 17
Save freeze image ..... 17
Autofocus ..... 17
The main menu ..... 18
Open and copy document / picture ..... 18
Manage files on the device ..... 18
Copy files from an SD card to the device ..... 19
Copy saved files to an SD card ..... 19
Delete all files from the device ..... 19
Deleting files from a folder ..... 19
Multiple selection ..... 19

Open pictures ..... 20
Open documents ..... 20
Read aloud function (for PDF and TXT files) ..... 20
View and read aloud text files ..... 20
View and read aloud PDF files ..... 21
Settings ..... 21
Options page ..... 21
Language settings ..... 21
Device information ..... 22
HDMI output ..... 22
Hardware reset ..... 22
Handling of the battery ..... 23
Replacing the battery ..... 23
**IV. Troubleshooting ..... 24**
**V. Warranty information ..... 25**
**VI. Technical details ..... 26**

# I. General Information

**Important notes on the operation of MANO EDU lite!**

**Please read them carefully prior to the operation of the device!**

## Notes on the electromagnetic compatibility (EMC)

MANO EDU lite is suited for the use in all set-ups including the domicile that are connected directly to a public power supply for buildings with residential purposes.

MANO EDU lite is designed for the use in the indicated electromagnetic environment. The user should ensure the use in the indicated environment.

MANO EDU lite operates on HF-Energy exclusively for its own function. Therefore the emitted interference of high frequency disturbances is very low and the interference with other appliances operated close-by is improbable. When operating the system simultaneously with other systems, however, the possibility of disturbances of the system or other systems should not be neglected.

For this reason it should be ensured that the system is not placed directly beside or on top of another system. If the set-up of this system in the proximity of medical, measuring devices cannot be avoided, the operator of these devices has to be informed that it is necessary to observe the performance of the system to control the conventional use of the system in the chosen set-up.

Electronic devices are sensitive towards electric discharge and towards high frequency electromagnetic fields.

**Attention:**
In order to avoid high frequency disturbances (e.g. microwaves) the operator should respect a minimum distance of one meter/three feet to portable and mobile HF-telecommunication devices.

Please also see chapter „Safety advice“ on page 7 or on page 8.

## Storage of the user manual

The user manual is an essential part of the system. Please keep the manual in a safe place for future reference.

## Product description

MANO EDU lite is an electronic magnifier for magnifying text and images.

- the FullHD 12.5” (approx. 31.8 cm) touch display offers an extremely sharp and high-contrast display.
- Approx. 2.2x to 50x continuous magnification thanks to the innovative and state of the art camera technology
- Ergonomic design with fold-out stand, operated via buttons and/or touchscreen
- Reading camera with integrated LED lighting and external distance camera that can be used as a second document camera
- Real-time magnification of an entire A4 page using an external distance camera

### Cleaning of the system

- Before cleaning, disconnect the unit from the power supply.
- Clean the device with a mild household cleaner and a microfiber cloth.
- Do not allow any liquids to enter the device.

### Special advice for transport and storage

For safety reasons, the unit must only be shipped in the original packing. The unit must be stored in dry and closed rooms in the original packing.

The following conditions for transport and storage have to be respected:

- Air pressure 700 to 1000 hPa
- Temperature range + 5 °C to + 50 °C
- Relative humidity 30% to 80%

### Important note on reading, capturing and playback of medication leaflets

Dosage and quantity information from medication leaflets, read from the screen or, if a read-aloud function in your system is available, played back, must always be checked and re-confirmed independently! Always ask your doctor, pharmacist or a person you trust about dosing of medications!

### Power supply

Only use the original power supply which is included in the delivery by Reinecker Vision GmbH.

**Caution: The use of any other power supply besides the original, might lead to an increased electro-magnetic emission and to product damage.**

### Disposal or transfer of the device

This equipment may retain user settings and stored images if disposed of or transferred. As described on page 22, go to the device information in the settings and then to “Reset to factory settings” to remove all user settings. To remove all personal content from the device, follow the procedure in „Delete all files from the device“ on page 19.

## I.I General Information – valid for MANEDLI1

**The order code of your device can be found on the type label on the device or on the packaging.**

### Purpose

This electronic magnifier is a medical device to assist with the reading and magnifying of printed text and pictures. Visually impaired people can compensate for their loss of visual acuity by using this device.

### Medical device

This device is classified as a medical device, class I according to (EU) 2017/745, Annexe VIII, standard 13. For the distribution to countries outside the EU the respective country-specific guidelines have to be regarded.

## Declaration of conformity, CE mark

CE You can request a copy of the declaration of conformity in written form from Reinecker Vision GmbH, Sandwiesenstr. 19, 64665 Alsbach-Hähnlein or view it at www.reineckervision.de/eu-doc

## Evolution and lifetime of products

The Medical Device Directive regulates by law that manufacturers of medical devices shall determine a period of safety operation of a product. We fulfill hereby legal requirements and determine - for formal reasons - a period of three years after date of first purchase.

**Note:** The mentioned life span does not reflect the complete life span of the system. It is rather an indication on when the product might be obsolete and substitution might be recommended due to new product developments.

## Combination with other medical devices

If the operator/user wants to operate this device in conjunction with other life sustaining medical devices, please get in touch with Reinecker Vision GmbH or with your local dealer, prior to operation.

## Safety advice

The device has to be set up and operated in closed and dry rooms only. Do not plug the device into an electrical circuit that is also being used for any life sustaining or support systems. The device may not be used in the patients environment.

This device should not be operated in explosion-endangered environments. This device should only be installed in conjunction with a state-of-the-art electrical circuit.

## Precautions by alteration of the performance of the device

Should any of the technical features or performances change (failure, malfunction etc.), the device must be turned OFF and the battery must be taken out. **Please do not switch ON the device again.** Refer directly to your authorized dealer or to Reinecker Vision GmbH Service Center.

## Reinstatement, installation and maintenance

This device may be technically repaired and reconditioned by Reinecker Vision GmbH only or by an authorized technician. The device may only be used again after a safety check, thorough cleaning and disinfection.

## Environmentally friendly disposal (Directive 2012/19/EU)



Within the EU the respective national implementations of the Directive 2012/19/EU for the sustainable re-use and proper recycling of electrical and electronic equipment applies.

MD For countries outside the EU (e.g. Switzerland), the respective national implementations for the regulatory requirements for environmentally friendly disposal and recycling applies.

### List of symbols used

| | | | |
|---|---|---|---|
|  | Manufacturer |  | Country of manufacture |
|  | Model number |  | Catalogue Number |
|  | Serial number |  | Caution |
|  | Medical device |  | Unique Device Identifier |
|  | Consult instructions for use |  | Temperature limit |

## I.II General Information – valid for MANEDLI1LV

**The order code of your device can be found on the type label on the device or on the packaging.**

### Purpose

MANO EDU lite is a system for magnifying text and pictures.

### Declaration of Conformity (DoC), CE/FCC mark



You can request a copy of the declaration of conformity in written form from Reinecker Vision GmbH, Sandwiesenstr. 19, 64665 Alsbach-Hähnlein or view it at www.reineckervision.de/int-doc

### Safety advice

The device may only be set up and operated in closed and dry rooms. The device should not be operated in explosion-endangered environments. The device may only be connected to a state-of-the-art circuit.

### Repair and maintenance

The device may only be serviced and repaired by Reinecker Vision GmbH or an authorized dealer.

### Environmentally friendly disposal



The device contains electronic components.
To avoid environmental damage, the respective country-specific laws and regulations for the disposal of the device must be respected.

## II. Safety instructions

Please respect the following safety instructions:

1. Do not plug the AC adapter into a faulty electrical outlet. Doing so may cause electrical shock or fire.
2. Do not touch the AC adapter with wet hands.
3. Only use the original power supply which is included in the delivery by Reinecker Vision GmbH. The use of any other equipment might lead to a product damage.
4. If the system is equipped with batteries, only original parts from Reinecker Vision GmbH should be used for replacement.
5. Do not expose the system to direct sunlight or extreme heat or cold temperatures, as this would harm the picture quality.
6. Do not operate this device below +10°C or above +35°C.
7. Keep liquids away from the system. Only operate the device in a dry environment.
8. The device should not be operated next to medical devices (patients environment).
9. Do not press or drag objects across the touch display. Do not lean on the screen or lay heavy objects on the device. This may cause damage to the device.
10. Do not try to repair or to dismantle the system on your own. That would immediately void the warranty. If you need any technical assistance please contact your distributor or Reinecker Vision GmbH.
11. Always turn the system OFF and disconnect it from the power supply before cleaning it. Only use a soft and slightly damped cloth. Only use a mild household detergent. Do not use alcohol containing or strong detergents.

# III. Instructions

## Scope of supply

- MANO EDU lite
- external distance camera
- carrying bag
- cleaning cloth
- Power supply with adapters
- quick reference guide
- user manual

## Accessories ( optional )

- MultiView screen
- spare battery
- battery charging station

## Commissioning

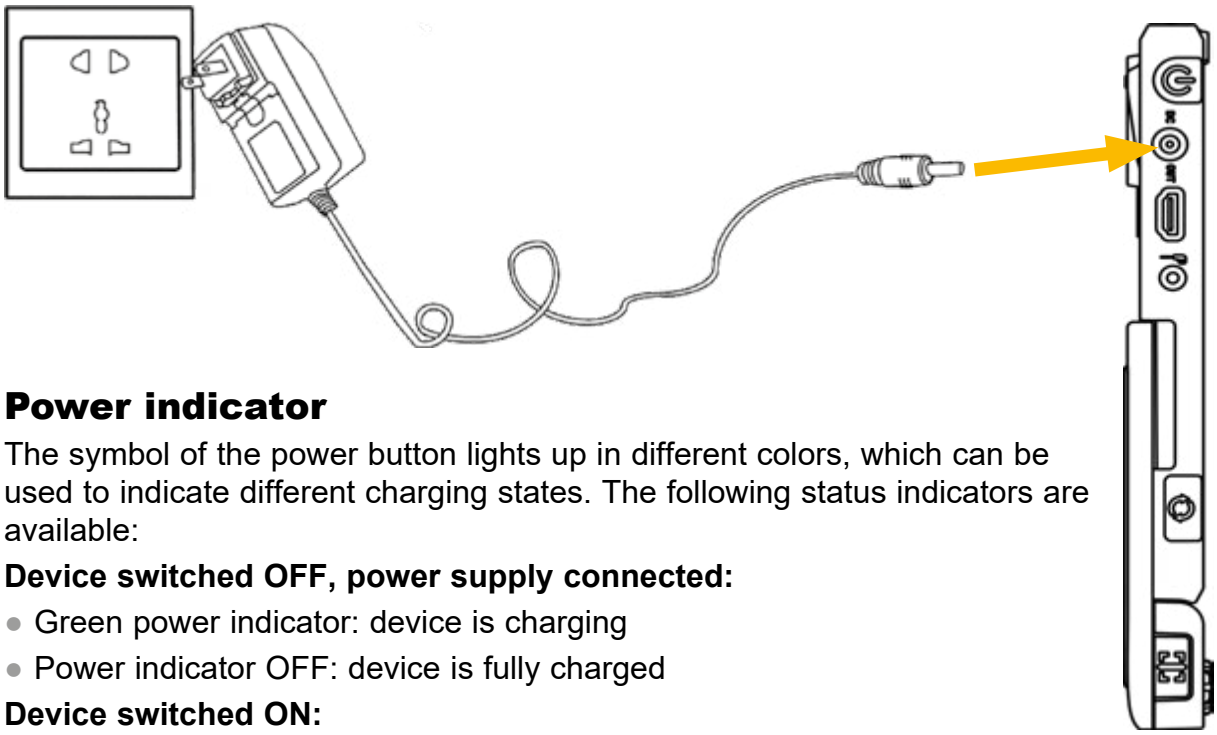
Before using the device for the first time, you must fully charge the battery.

## Charging the battery

Connect the supplied power cable to the charging socket on the device, then connect the power adapter to a mains socket to start the charging process. A complete charging process takes approx. 2.5 hours and enables an operating time of up to approx. 4.5 hours (depending on the operating mode).

For more information, see„Handling of the battery“ on page 23 .

**Caution:** The AC adapter supplied with the unit is designed to operate this system only. Do not use any other AC adapter.



## Power indicator

The symbol of the power button lights up in different colors, which can be used to indicate different charging states. The following status indicators are available:

**Device switched OFF, power supply connected:**

- Green power indicator: device is charging
- Power indicator OFF: device is fully charged

**Device switched ON:**

- Green power indicator: sufficient battery charge or power supply connected
- Red power indicator: battery almost empty, device needs to be charged

If the device is switched ON, you can see the battery level on the display by briefly pressing the power button.

# Setting up MANO EDU lite

## Unfolding the MANO EDU lite stand

MANO EDU lite can be used in a comfortable reading position by using the integrated, folding stand. Fold out the stand and place the device on top of your reading material...






## Folding the stand

Press on the stand arms with your finger until they bend slightly inward, then press on the bottom of the stand to fold it in.





## Attaching the distance camera

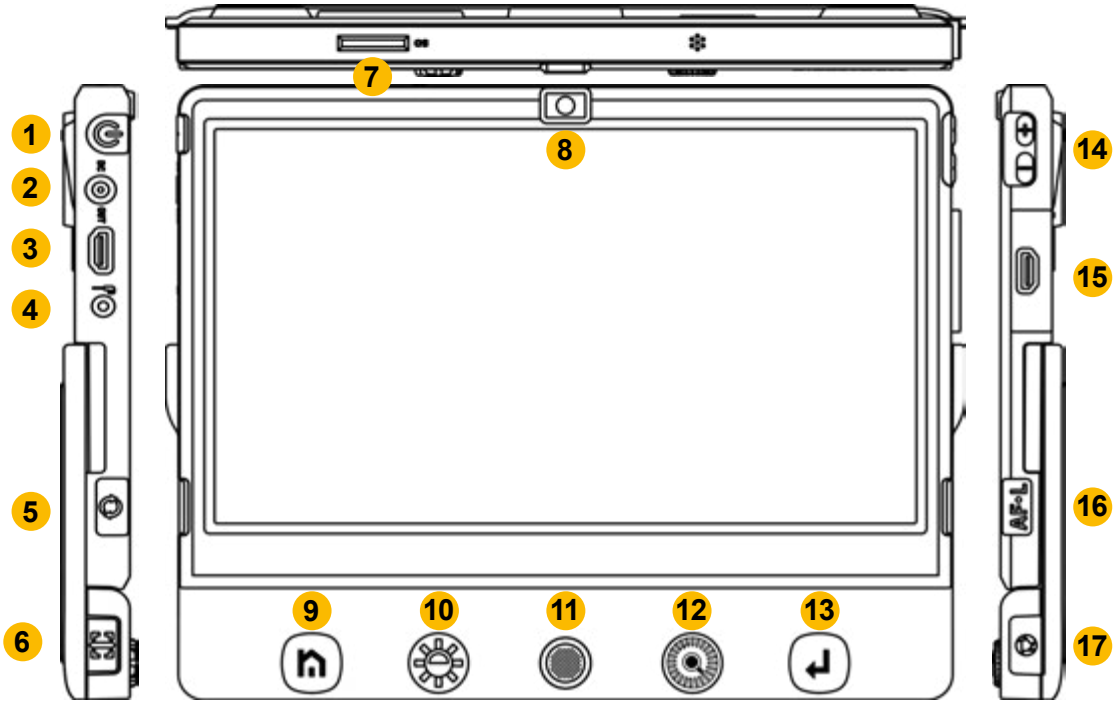
Insert the external camera into the port on the right side of the unit. To remove it, press and hold the two ridged buttons on the camera while pulling the camera out.

**Note:** The angle of the camera can be adjusted depending on the application. The camera lens on the top can be rotated freely in all directions. See „Functions of the external camera“ on page 16 for details.

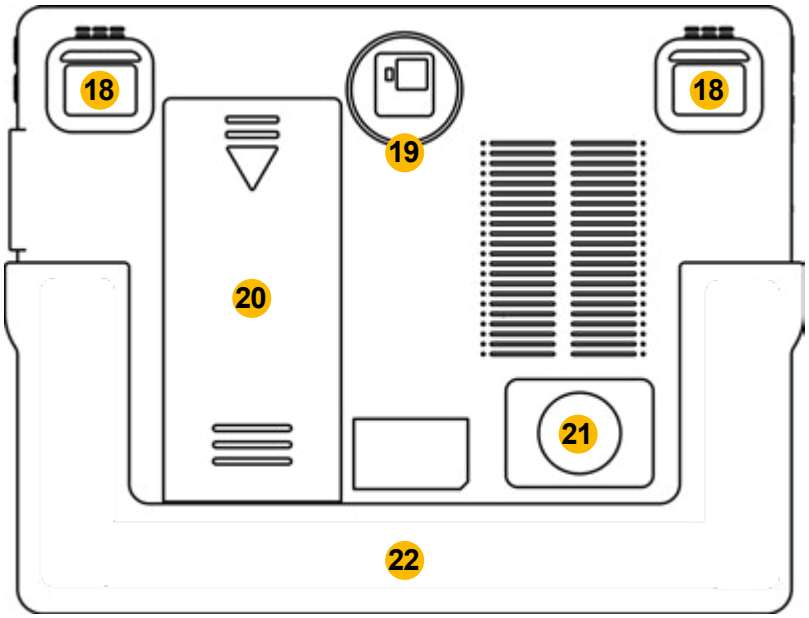





## Description of the controls




1) ON/OFF
2) DC port
3) HDMI output
4) headphone / loudspeaker socket
5) camera switch
6) line/mask button
7) SD card slot
8) front camera
9) home
10) color mode
11) joystick
12) zoom
13) enter
14) volume +/-
15) distance camera connection
16) autofocus
17) freeze frame




18) LED lighting
19) main camera
20) replaceable battery
21) speaker
22) foldable stand

## Operation



MANO EDU lite can be operated by the use of buttons and by the use of the touch screen monitor. Menu items on the screen can be selected either by tapping on the item on the touch screen or by using the joystick. In case you have selected the symbol with the joystick, press the enter button to confirm your selection.

## Turning ON/OFF



Press and hold the ON/OFF button for 3 seconds to turn on MANO EDU lite.

When the unit is ON, press the ON/OFF button to check the current status of the battery capacity.

No operation for 3 seconds will automatically switch to the highlighted mode.

## Home-/menu button



If you press the home button for approx. 2 seconds, you will get to the main menu in which you can select the following functions:

- Magnifier
- Open document / picture
- Settings

The selected item is highlighted and you can tap on the desired icon on the touchscreen (or use the joystick to select and the enter button to confirm).

Briefly press the home button to display the menu bar at the bottom of the screen when you are in magnification or reading mode.

You can also open the menu bar by sliding your finger up over the display from the bottom of the screen.

If you do not perform any operation for 5 seconds or briefly press the home button, the menu bar will be closed.

In menus you can go back or close the menu with the home button.

## Zoom



Turn the zoom button clockwise to zoom in and counterclockwise to zoom out.



Alternatively, you can adjust the magnification with two fingers on the touchscreen by moving your fingers apart (zoom in) or towards each other (zoom out).

### Move the magnified image

At higher magnification levels you can navigate through the image by sliding your finger over the touchscreen or moving the joystick. This enables you to read comfortably without having to move the reading material under the device.

## Full-page reading (with plug-in distance camera)

The device can capture an entire DIN A4 with the distance camera in document mode. You can then view the page enlarged and move it without having to move the reading material. For more information on correct camera positioning, see „Functions of the external camera“ on page 16.



If the camera image is not correctly aligned, tap the rotate icon in the menu bar until it is correctly aligned.

You can then press the magnification button once to view the image directly enlarged or set the optimum magnification as usual by turning the magnification button.

For better orientation in the magnified image, you can use the overview mode described in more detail on page 17.

## The menu bar in zoom mode

In zoom mode, briefly press the Home button to display the menu bar. Here you can adjust the lighting and brightness and switch back and forth between the main camera at the back and the front camera.

If you do not perform any operation for 5 seconds or briefly press the home button, the menu bar will be closed.

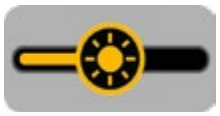
Select the desired icon on the touchscreen (or use the joystick to select and the enter button to confirm).

### Lighting



Show the menu bar and tap the light bulb on the left to switch the entire lighting ON and OFF. By tapping on the lamps on the right, you can switch the left and right LEDs ON and OFF individually. This can be helpful to minimize glare on the reading material.

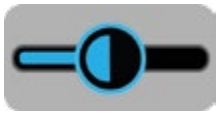
### Brightness



Open the menu bar and select the brightness symbol with your finger (or use the joystick). Slide your finger to the left or right (or turn the magnification button) to increase/decrease the brightness.

No operation for 5 seconds, briefly pressing the home button or tapping the inactive area closes the controller.

### Adjusting the contrast (in semi color mode)



The contrast is automatically optimized in the semi color mode, but can also be set manually. Press the color mode button while turning the magnification button to adjust the contrast.

Slide your finger (or rotate the magnification button) to increase/decrease the contrast.

No operation for 5 seconds, briefly pressing the home button or tapping the inactive area closes the controller.

## Volume



The button/speech guide volume and the read aloud volume (only for external text files) can be controlled separately.

To do this, use the volume buttons on the right side of the device or slide the slider on the screen with your finger to the desired position.

## Color mode



Full color mode is suitable for displaying pictures or maps. In semi color mode (a combination of foreground and background color), texts can be read with high contrast.

Rotate the color mode button to cycle through all activated semi color combinations. Press the color mode button to quickly switch between true color mode and the last selected semi color.

You can access the semi color settings by holding down the color mode button for approx. 5 seconds. There you can activate/deactivate the semi color combinations by tapping (or use the joystick to select and the enter button to confirm).

The following semi color combinations are available:

- White and black
- White and blue
- Green and black
- Black and blue
- Yellow and black
- Blue and yellow
- Black and magenta
- White on Red
- Red on black

Tap the exit icon to exit the custom colors page (or press the home button).

**Note:** The custom colors page can also be accessed from the settings menu.

# Operating the cameras

## Switching between close-up and long-distance view



When the stand is folded in, MANO EDU lite is in distance viewing mode to make it easier to see things further away. When you unfold the stand, the device automatically switches to close-up mode and you can place the device on the reading material.

## Switching between rear camera/front camera



Display the menu bar and tap the icon with the screen to switch to the mirror view of the front camera. Press the near or far view icon to return to the rear camera.

## Switching between external and internal camera



If the external distance camera is connected, you can switch between the external and internal camera by pressing the camera switch button on the left-hand side.

If the external camera is not plugged in, the button has no function.

## Functions of the external camera

The distance camera can be used in two different ways. With the camera arm pointing upwards as a classic distance camera and with the camera arm bent through 90° as a document camera, which can capture an entire A4 page at once and display it magnified.



### Use as a distance camera

Ensure that the camera arm is facing straight up and rotate the camera arm until the grey marker points to the front and forms a line with the lower marker. Use the top ring to rotate the camera in different directions. .

### Use as a document camera

With the camera bent, you can easily capture one page at a time and move the magnified image without having to move the reading material or MANO EDU lite. You can also write comfortably under the external camera on the right side of the device. There is a built-in light on the camera that can improve the image in low light conditions.



To use the camera in document mode, rotate the camera arm so that the gray mark at the lower part points to the right and is in the same position as the side mark on the bottom. You can now see the mark next to the hinge. Take the top of the camera arm and bend it about 90° to the side. Make sure the camera lens is pointing downwards.

# Orientation aids in the magnified image

## Image position

Double tap the center of the image to re-center the image (or push the joystick in any direction and press the zoom in button at the same time).

Double-tap the at edge of the display to jump to the end of the original image (or press the joystick twice quickly in the desired direction).

## Line ruler and line mask

Press the orientation aids button on the left to toggle between the different modes for line ruler and line mask.

You can change the color of the line ruler by holding down the orientation aids button and rotating the color mode button.

Hold down the orientation aids button and move the joystick to change the size and position of the line ruler and line mask.

## Overview mode



When you are at a higher zoom level, briefly press the magnification button to see the original-sized image. A yellow box marks the section of the magnified image. Use the joystick or a finger on the display to move the position of the box.

If you want to return to the previous position, turn the magnification button in any direction. To center the magnified image section, move and hold the joystick in any direction and press the zoom button.

Briefly press the magnification button again (or double-tap the box) to return to the magnified image.

## Live Panning



In a higher zoom level, use the slide gesture (or use the Joystick ) to navigate the image for seeing more without moving the paper.

Push the joystick in any direction and turn the zoom button to display the bar for the panning speed.

To adjust the panning speed, turn the magnification button or adjust the slider on the screen with your finger to the desired position.

Do not press any button for 10 seconds or briefly press the home or enter button or tap the inactive area to close the panning speed setting.

## Freeze frame function



Press the freeze button on the right side of the device to create a freeze frame. Press the button again to return to live mode.

When viewing freeze images, you can change the magnification and color mode as described on page 13.

## Save freeze image



In the magnification mode, press and hold the freeze button for 3 seconds to save the current image.

**Note:** The voice label function can be turned ON or OFF in the settings (see page 21 ).

You have about 2 GB of storage space available. If an error message appears while saving, the memory is full and you have to delete pictures in the gallery or transfer them to a SD card.

Further information on the gallery can be found on page 18 .

## Autofocus




In most cases, the autofocus works well and the image is sharp and easy to read. If this is not the case, you can refocus the image by holding your finger on the screen for 2 seconds (or pressing the autofocus button for 2 seconds).

Briefly press the autofocus button to activate or deactivate it.

If you want to write under MANO EDU lite, turn the autofocus OFF before you place your hand under the display to write something. This will prevent the hand or the pen from being in focus and not the writing.

## The main menu

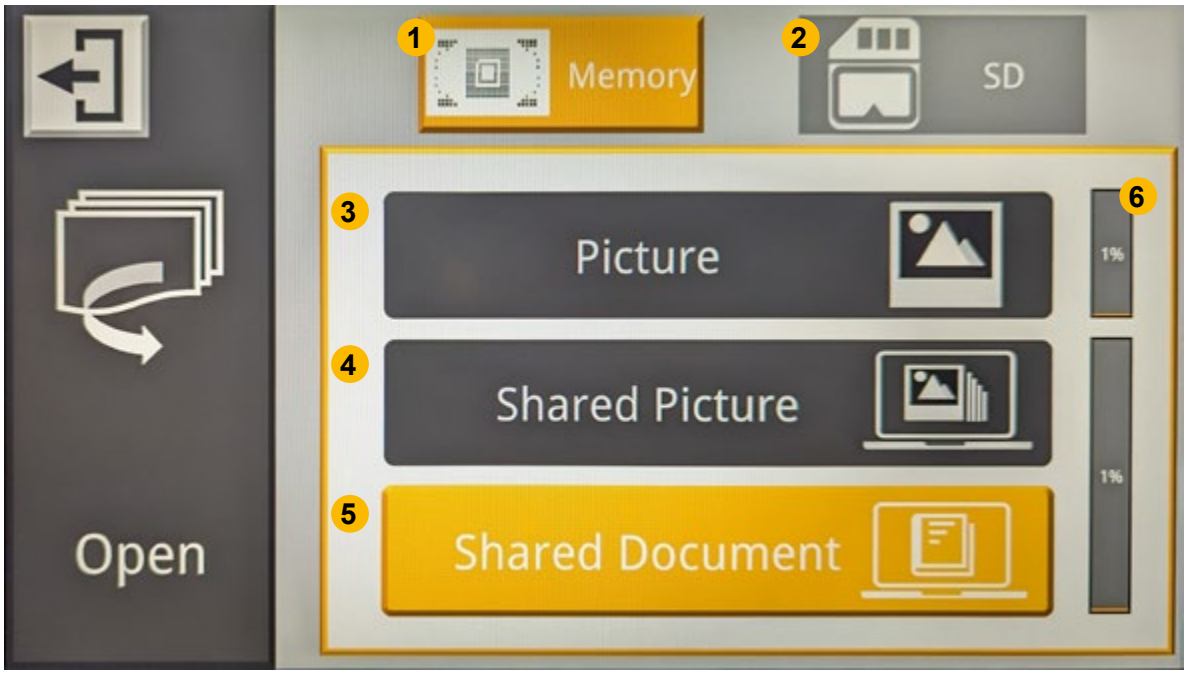
If you press the home button for approx. 2 seconds, you will get to the main menu, where you can select the following functions:

- Magnifier
- Text to speech (TTS)
- Open document / picture
- settings

The selected application is highlighted. Select the icon on the touchscreen (or move the joystick to select and press the enter button to confirm).

In the menu you can go back or exit the menu with the home button.

## Open and copy document / picture




In this menu, you can open images and texts, view them magnified and have texts read out to you as well as copy saved images to an SD card. If you want to view external pictures, text files or PDFs on MANO EDU lite, you can copy them from a PC, laptop or an SD card to the device.

If you opened memory, you will see the folders of the internal memory (1). Is an external SD card (2) inserted, you can view the content by pressing the symbol at the top right or turning the color mode button.

You can look at pictures. Texts are displayed in text mode and can be viewed as described on page 20.

Briefly press the camera switch button to return to the magnifier.

## Manage files on the device

Here you will see three different folder icons in which the files are grouped by type and origin. In the „Picture“ folder (3) you will find all the pictures that you have previously saved by pressing and holding the freeze button. In the other two folders you will find pictures (4) and documents (5) that you have previously copied from an SD card to your device.

On the right side you can see the used memory in percent (6).

## Copy files from an SD card to the device



In the open document/picture menu, open the SD card (2), select the desired files, and press the copy icon in the left column.

Supported picture formats are JPG, BMP, PNG, and TXT, PDF for documents. You will then find these files in the Shared Picture (4) and Shared Document (5) folders.

## Copy saved files to an SD card



Pictures from the internal memory can be transferred to an external SD card if it is inserted. Select the desired picture in the internal memory and then tap on the SD card icon (or press the freeze frame button) to start the transfer.

Tap the SD card icon for 3 seconds (or press and hold the freeze button) to select all pictures and transfer them to the external SD card.

When multiple selection is enabled, multiple pictures can be transferred at once by tapping the transfer icon (or pressing the freeze button).

## Delete all files from the device



Go to the folders overview by selecting “Open” in the main menu. Press and hold the orientation aids button for approx. 5 seconds and confirm the deletion process by pressing it again or cancel the process by pressing any other button.

## Deleting files from a folder



Select the file you want to delete and tap the trashcan icon on the bottom left or press the orientation aids button. Press the button again to confirm the deletion. If you would like to cancel the deletion process, press another key or tap another part on the display.

If you want to delete all files in the current folder, press and hold the trashcan icon or the orientation aids button for approx. 5 seconds and confirm the deletion by pressing again or cancel the process as described above.

You can also delete certain pictures that you have previously marked in the multiple selection.

## Multiple selection

Long tap (or long press the enter button) a specific picture or document in a folder to enable or disable multiple selections.

When multiple selection is enabled, a small box will appear in the lower right corner of each picture. Tap the box (or use the joystick and press the enter button) to select all target pictures / documents. Then the multiple transmission or multiple deletion can be performed as described above.

Long tap the screen or tap the exit icon again (or press the home button or long press the freeze button) to exit multiple selections.

## Open pictures

Open the pictures folder on the device or SD card. There you can scroll up or down with the slider on the right side of the screen or with the joystick.

Tap the thumbnail to highlight it and tap it again (or press the enter button) to view the picture. If the saved picture has a voice label, you can listen to it by tapping the voice symbol in the top right corner or by pressing the zoom button.

You can view and navigate withing the picture as described in section „Freeze frame function“ on page 17. Press the home button to open the menu bar

.


In the menu bar, tap on one of the arrows to go back / forward one picture.


In the menu bar, tap on one of the double arrows to go to the beginning or end of the pictures.


To rotate the picture, tap on the rotate icon in the menu bar. The last rotation is saved automatically.

Tap the exit icon (or long press the home button) to return to the gallery.

## Open documents

Here you will find the text and PDF files that are on the inserted SD card or were previously copied from an SD card to the device.

## Read aloud function (for PDF and TXT files)

You can have PDF or TXT files read aloud to you, and you can also view magnified PDFs.

Double-tap the document to open it. Alternatively, you can use the joystick and the enter key to open the document. Tap the exit icon (or long press the home button) to return to the gallery.

Note: Please note that texts in PDF files are only read aloud if they are also available as text in the document. Scanned or photographed texts that have been saved as a PDF cannot be read aloud.

### View and read aloud text files


Tap the play or pause symbol in the menu bar or press the enter button to start or stop reading..


In pause mode, long press on a sentence to start reading from that point.


To improve the contrast of the text, you can tap on the „A“ in the menu bar and set the text display to bold.


In longer text files, two icons automatically appear next to the playback button to scroll back/forward one page. Press and hold the key to turn back/forward first 10 and then 50 pages at a time. After turning the page, the text recognition for the new page starts. You can continue scrolling as soon as the text capture has been completed.


By default, text capture is enabled in order to use the read aloud function. In this case, depending on the length of the text, it may take a few seconds for the text to be captured. If you do not need the read aloud function, deactivate text capture to turn the pages more quickly

## View and read aloud PDF files



Tap one of the arrows in the menu bar to scroll back/forward one page. Press and hold to scroll back/forward first 10 and then 50 pages at a time.



Tap one of the double arrows in the menu bar to go to the beginning or end of the PDF..



To start the read aloud function within a PDF, you must tap on the read aloud symbol in the menu bar. The page is now displayed in text mode and can be operated as described in the section above.

# Settings

The last item in the main menu are the settings.

You can choose from the following sub menus:



Options



Language settings



Device information

Tap on the sub menu you want (or rotate the Color Mode button) to see the available options.

Tap on the item to change the settings (or press the joystick to highlight the item and press the enter button to change it).

# Options page

**Individual color combinations**
Here you can select which semi color combinations shall be displayed.

**Power saving (standby mode)**
If this function is active, the device is put into standby mode if it has not been used for 5 minutes. The device switches itself OFF completely if it has not been switched ON again after 15 minutes in standby mode.

**Touch Screen**
If you prefer to operate the device without a touch screen using only the buttons, you can switch it off here.

**Speech guide**
Menus and functions are not only displayed but also described with voice prompts.

# Language settings

**Male / female voice selection**
If your language is set to English, you can also choose between US, UK and AU voices.

**Language selection**
Here you can choose between the currently available languages. The setting changes the language in the menus and the voice output.

**Voice speed setting**
Here you can adjust the voice speed in three levels.

## Device information

### Reset to factory settings

Here you can reset the device to the factory settings. After the reset, the device will automatically turn OFF.

### Frequency

Frequency offers the options 50 Hz and 60 Hz which can be changed depending on the region in which you are located. If the picture flickers, changing the frequency can lead to an improvement.

### User Interface

Here you can choose between Standard and Simple.
In simple mode, only the basic functions of a magnifying system are available:

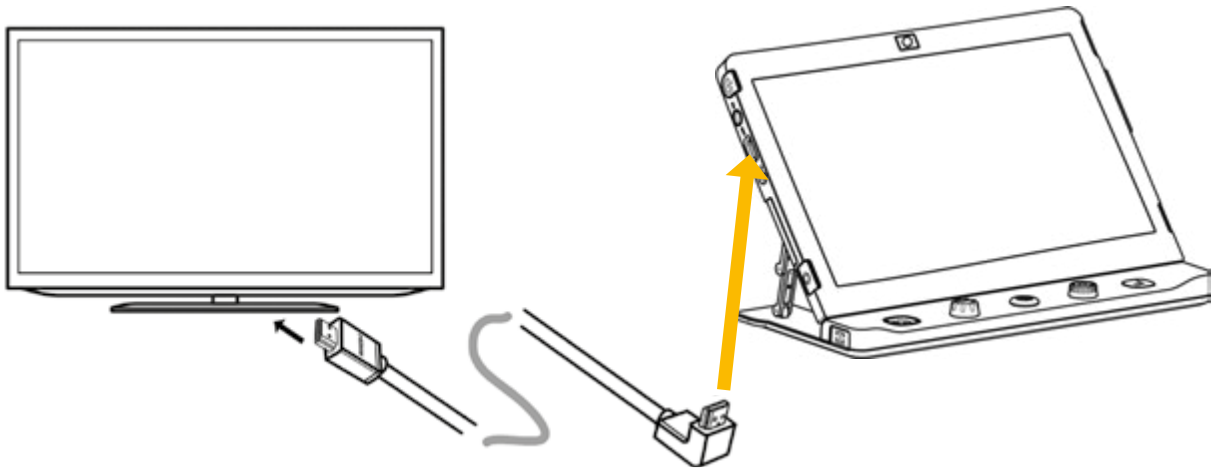
- simplified magnifier without: menu bar, adjustable lighting, line ruler/mask, freeze image/saved images
- Joystick inactive, gestures are available on the touchscreen
- Reduced number of semi color modes (hold down the semi color button to edit the predefined color combinations)
- Menu item “Open images/files” not available, no external storage devices

### Information about the system

Here you can find information such as the current firmware version.

## HDMI output

Connect the device to your external display device with an HDMI cable to enable dual display application.



## Hardware reset



If the device freezes and cannot be turned OFF the regular way, press the power button and both volume buttons at the same time to do a hardware reset.

## Handling of the battery

**Attention:** A prerequisite for a long battery life is the correct operation and charging of the battery.

Make sure the battery is fully charged before first use of the system. For charging, connect the power adapter with the power port on the left side of the system and plug it into an AC outlet.

If the magnifier is not used for a longer period of time, the battery loses its charge even if the device is switched OFF and a deep discharge and damage of the battery may occur. This can be avoided by fully charging the battery beforehand.

## Replacing the battery

The battery can be removed from the device without tools. Turn the device over and flip out the stand. Slide the battery cover slightly in the direction of the arrow towards the white stand until it can be removed..





# IV. Troubleshooting

**The device cannot be switched ON**
- Connect the device to the power adapter
- please charge the battery
- Perform a hardware reset by pressing the power button and both volume buttons simultaneously.

**The device cannot be switched OFF**
- Perform a hardware reset by pressing the power button and both volume buttons simultaneously.

**Black screen or white screen**
- If the device is on a flat, clean surface, or if there is nothing on the base, the screen can be black or white.
- Adjust the magnification
- Set the color mode
- Restart the device

**The picture doesn’t change**
- The device may be in freeze image or playback mode
- Restart the device
- Perform a hardware reset by pressing the power button and both volume buttons simultaneously.

**Dirt or smudges on the screen**
- Adjust the brightness
- Clean the LCD screen and camera

**The Picture is blurred**
- Check if the autofocus is deactivated
- Move your hand back and forth over the displayed document to refocus
- Tap the screen for 2 seconds to manually set the focus.

**Not all functions are available (e.g. no joystick, line ruler/mask, freeze image and image memory)**
- Check whether the user interface is set to Simple in the menu under “Device information”

If the problem is not solved, reset the device to factory settings and perform a hardware reset. If you have any further problems, please contact Reinecker Vision GmbH

## V. Warranty information

1. Reinecker Vision GmbH grants a warranty of 24 months (warranty period only valid within the European Union) against defects in manufacture counted from date of invoice ex Reinecker Vision GmbH.
2. All parts that have been replaced when repairing the unit will automatically become property of Reinecker Vision GmbH.
3. Damage caused by improper use or by non-compliance with the operating instructions will result in the invalidation of the warranty.
4. Interventions from persons other than Reinecker Vision GmbH authorized specialists may lead to invalidity of warranty.
5. The liability for material defects does not include light sources serving to illuminate the reading object and other parts subject to wear and tear, e.g. rechargeable batteries.
6. If a warranty claim is necessary, the system has to be returned to the manufacturer in Alsbach-Hähnlein or to your authorized dealer in the original packaging including all components. The manufacturer does not carry the cost for transport, packaging and insurance. Prior to returning the system, a RMA number issued by Reinecker Vision is required. Please have the exact serial number of your system before hand.

Phone number: +49 6257 9311-0

View our General Terms and Conditions.

## VI. Technical details

| | |
|---|---|
| **Type** | MANO EDU lite (MANEDLI1/MANEDLI1LV) |
| **Display** | FullHD 12.5" (approx. 31.8 cm) touch display,<br>screen resolution: 1920 x 1080 |
| **Cameras** | Ultra HD 4K camera, video resolution: 3840 x 2160 |
| **Zoom** | Document view: 2.2x - 50x<br>(depending on the viewing angle) |
| **Color mode** | True colors, up to 16 semi colors adjustable |
| **Freeze image function** | Image storage, storage capacity: approx. 2 GB |
| **External file formats** | Image formats: JPG, BMP, PNG<br>Document formats: TXT, PDF |
| **Rechargeable battery** | exchangeable Li-Ion battery |
| **Operating time** | up to approx. 4.5 hours<br>(depending on the application) |
| **Charging time** | approx. 2.5 hours |
| **Power adapter** | Input: 110-240V; Output: 12V / 3A |
| **Dimensions** | approx. 31.5 x 2.4 x 24.5 cm/12.4 x 1 x 9.6 in,<br>with stand approx. 31.8 x 18 x 17 cm/12.5 x 7 x 6.7 in |
| **Weight** | 1.1 kg/2.4 lbs (including battery) |

**Manufacturer**

**Reinecker Vision GmbH**
**International Contact**

**sales department, customer relations:**
Sandwiesenstraße 19
DE-64665 Alsbach-Hähnlein

**customer service:**
Erlenweg 3
DE-64665 Alsbach-Hähnlein

Tel.: +49 6257 9311-0
Fax: +49 6257 9311-8230

Email: international@reineckervision.de
www.reineckervision.com

SRN: DE-MF-000025998

In case service is necessary, please contact your authorized distributor.

**Hersteller**

**Reinecker Vision GmbH**
**Zentrale**

**Vertrieb, Kundenberatung:**
Sandwiesenstraße 19
64665 Alsbach-Hähnlein

**Kundendienst:**
Erlenweg 3
64665 Alsbach-Hähnlein

Tel.: 06257 93 11-0
Fax: 06257 93 11-8008

Email: info@reineckervision.de
www.reineckervision.de

SRN: DE-MF-000025998

Bitte wenden Sie sich bei Fragen oder einem Servicefall direkt an unser Hauptwerk in Alsbach-Hähnlein.

Bei im Ausland erworbenen Produkten kontaktieren Sie im Servicefall bitte Ihren dort ansässigen Händler.

*Version 1.1, as of 06/24, item no. 00010315*
*Subject to change.*

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