

User manual

MANO 12

ZE



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.

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I. General Information

Important notes on the operation of MANO 12!

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

Notes on the electromagnetic compatibility (EMC)

MANO 12 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 12 is designed for the use in the indicated electromagnetic environment. The user should ensure the use in the indicated environment.

MANO 12 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 12 is an electronic magnifier for enlarging text and images and for converting and reproducing printed text into synthetic speech:

- the 12-inch LCD display (approx. 29.4 cm diagonal) offers an extremely sharp and high-contrast image
- approx. 2.7 to 19x (approx. 2.5 to 19x with reading/writing stand), continuous magnification
- ergonomic design with fold-out stand and separate reading/writing stand

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 reconfirmed 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 electromagnetic 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. Prior to disposing or transferring MANO 12, remove all personal content from the device and restore it to factory settings as described in „Restore factory settings“ on page 22.

I.I General Information – valid for MANO1202

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

Purpose

This electronic magnifier with voice output 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



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/en/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.



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 MANO1202LV

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

Purpose

MANO 12 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/en/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 12
- Reading/writing stand
- Carrying case (for MANO 12 with reading/writing stand)
- Protective cover (for MANO 12)
- Power supply unit
- USB cable
- Microfiber cloth
- HDMI cable
- Quick guide
- Instructions for use

Set up

Commissioning

Before using the device for the first time, you must fully charge the battery. Further information can be found at „Handling the battery“ on page 24.

Attention: The plug-in power supply unit supplied is intended exclusively for operating this system. Do not use any other plug-in power supply here.

Description of the two stand variants

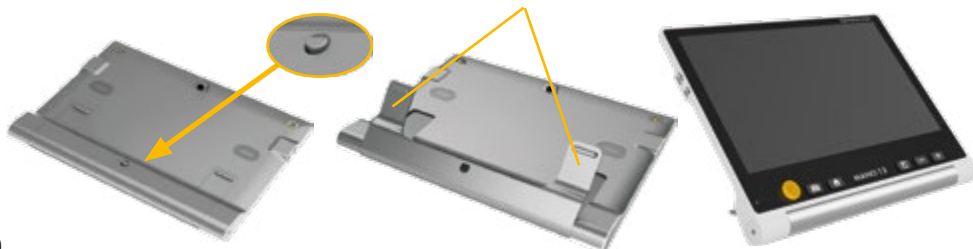
MANO 12 can be used quickly and compactly with the integrated stand or with the foldable reading/writing stand included in the scope of delivery. With the help of the reading/writing stand, you can write comfortably or conveniently view thicker objects such as food packaging under the magnifier.

Use of the integrated stand

Press the round button on the lower rear cover to open the stand. To close, press both sides of the stand back against the device.

Open:
Press the round button

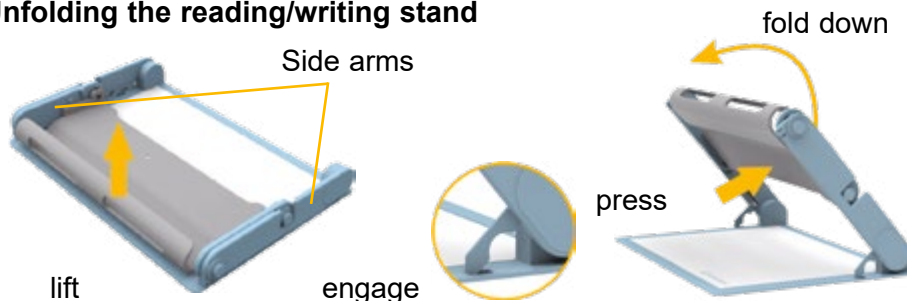
Folding in:
Press the sides of the stand



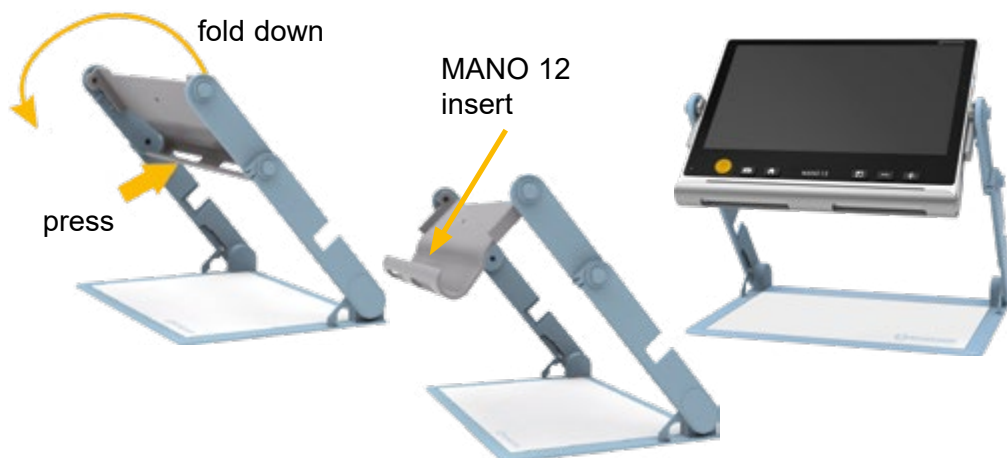
Use of the foldable reading/writing stand

The reading/writing stand is a useful extension to the MANO 12 and can be packed together with the reading magnifier in the carrying case.

Unfolding the reading/writing stand



Lift both side arms until the clamps are engaged and then fold out the upper part of the side arms.



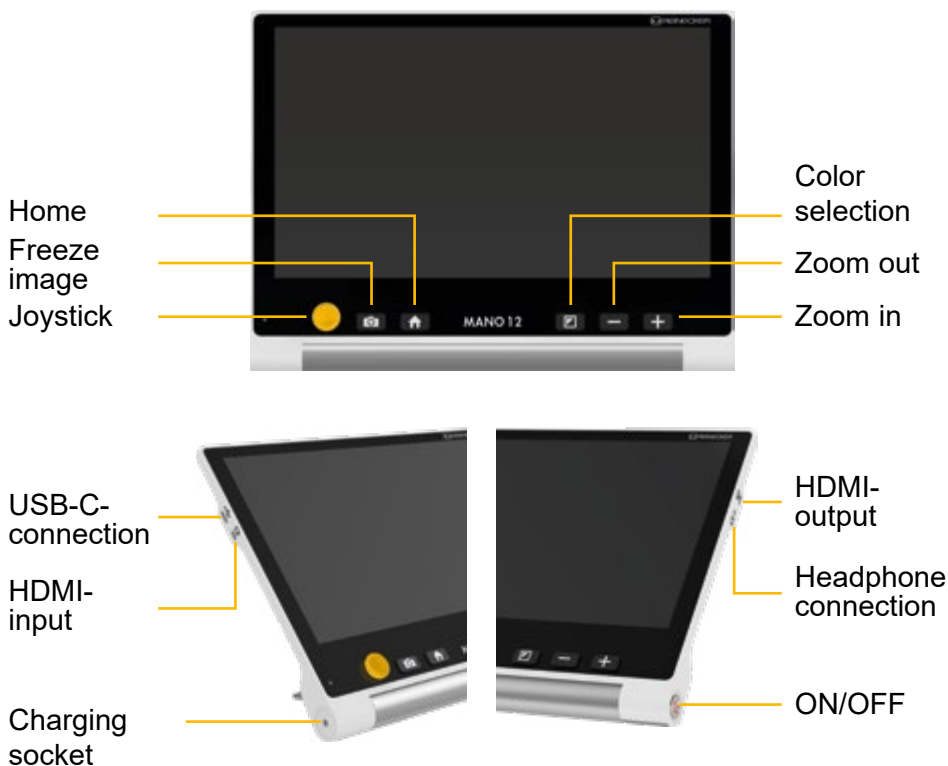
Now fold down the gray holder for the reading magnifier. The stand is now set up and you can insert the MANO 12. The camera automatically adjusts to the distance to the base plate.

Folding up the reading/writing stand

Remove the MANO 12 from the stand and fold the holder back over twice. Then use both hands to lift the small clips out of the base plate and fold the stand back together.

Attention: To avoid damaging the device, remove the MANO 12 from the stand before folding it up.

Operation of MANO 12



Switch ON/OFF

Press the ON/OFF button for three seconds to switch the MANO 12 ON. You switch the device OFF in the same way.

Standby mode

In standby mode, the screen is switched OFF but the device remains switched ON. The device switches to standby mode when:

- MANO 12 is not used for three minutes
- the ON/OFF button is pressed briefly

To exit standby mode, briefly press the ON/OFF button. In standby mode, the device switches OFF automatically after 30 minutes of inactivity.

Near/distant view

Open or close the stand to switch between near and far view mode.

Zoom (-/+)



Press the plus button to enlarge the view and the minus button to reduce the view.



To navigate in the enlarged image section, move the joystick up / down / left / right. If you move the joystick twice in the same direction, you will reach the edge of the screen (marked in orange).

Color mode



Tap the color mode button to choose between the different screen colors:

True color display



White on black



White on blue



Yellow on black



Green on black



Blue on yellow



Black on white



Blue on white



Black on yellow



Black on green



Yellow on blue

You can select your preferred semi colors in the "Settings" menu and deactivate the ones you do not need (see „Color mode“ on page 21).

In false color mode, press the color mode button for approx. one second to switch to true color display.

Autofocus and manual focusing

Autofocus is activated by default. You can also tap on a specific section of the screen to set the focus at this point.

Display and save freeze images

Freeze image function



Press the camera button to create a freeze image. Press the button again to close the freeze image.

You can adjust the magnification and the color setting in the freeze image as described at „Zoom (-/+)" and „Color mode" on page 13.



Press the arrow at the bottom right of the display to open the picture menu.



Collapse
menu

Save image in
gallery

Open
gallery

Close freeze
image

Text recognition and read aloud function

Read aloud mode



Press the camera button for approx. three seconds to switch to read aloud mode. Alternatively, you can also open the read aloud function via the main menu (see „Main menu" on page 18).



To return to zoom mode, press the camera button again for approx. 3 seconds or press the door symbol in the bottom right of the display.

Text recognition and read aloud function

Lay your document flat under MANO 12 and tap the screen if necessary to focus the document.

Briefly press the camera button to capture the document. Text recognition starts and the document is automatically rotated. You will hear a ticking sound while text capture is running.

A few seconds later, MANO 12 automatically reads out the scanned text. The word currently being read aloud is highlighted in color.

Tip: Have DIN A4 documents read aloud

To record a DIN A4 document in one step, you must use the MANO 12 with the separate reading/writing stand and place the document horizontally under the magnifier.

Tip: The best way to capture documents

Text recognition is best suited to reading normal-sized printed text in a single column. Extremely small text, complex page layouts or function tables and diagrams can lead to undesirable results.

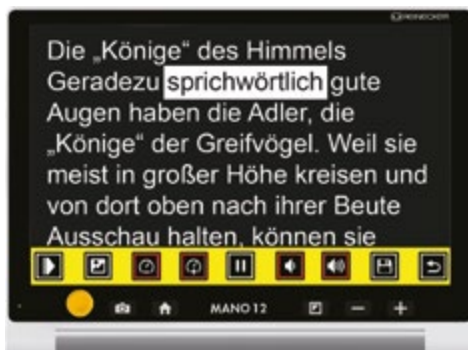
Ensure that the template is well lit without light reflections.

Various display modes

Read-aloud mode starts automatically in the text view. If desired, you can also switch to displaying the original image.

In the **text view**, the captured text is displayed without images. You can adjust the size of the font and choose from four different color combinations.

In the **overlay mode**, you can still see the reading template including images and the individual text elements on the page are automatically recognized and numbered. The area that is currently being read out has a red frame.



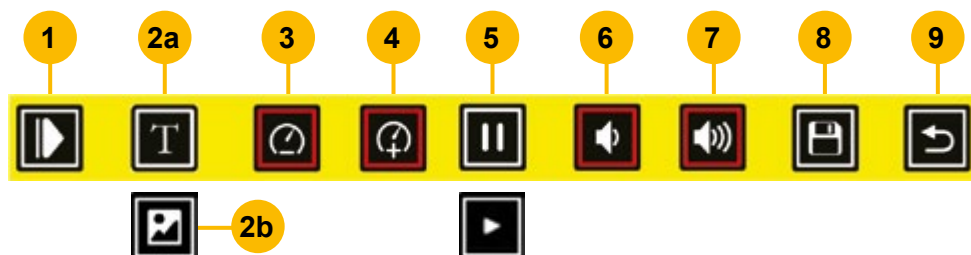
text view



overlay mode

Operation in read-aloud mode

Description of the menu bar



- | | |
|----------------------|-------------------------|
| 1) collapse menu bar | 5) pause/play |
| 2a) text view | 6) volume down |
| 2b) image view | 7) volume up |
| 3) speed up | 8) save text or image |
| 4) speed down | 9) exit read-aloud mode |

Operation in the text view

Customize the view

Once the text has been entered, you can select the color display and adjust the size of the text.



Press the Zoom in or Zoom out button to change the text size.



In read-aloud mode, you can choose from the following color combinations by pressing the color mode button:



White on black



Black on white



Yellow on black



Black on yellow

Reading aloud from a certain point

Tap any word with your finger and MANO 12 will start reading it aloud at this point.

Operation in the overlay mode

In the overlay mode, a page is divided into different areas, which are marked by yellow circles with numbers.

The area that is currently being read out is marked with a red frame. If you would like a different area to be read out, tap the yellow circle with the number with your finger.

Note: The entire section is always read aloud. Unlike in the text view, you cannot select a specific word from which to read aloud.

Read out saved documents from the gallery

To have previously saved documents read aloud, press the Home button to access the main menu. Select the gallery icon and whether texts from a photo, a PDF or a text file should be read aloud.



You can navigate through the images by swiping left or right on the touch-screen, pressing the arrow buttons or moving the joystick left or right.

To select, tap on the picture or press the color mode button. A playback symbol is displayed in the middle of the screen. Tap on it so that MANO 12 reads out the text.

PDF files

You can transfer PDF files from your PC to MANO 12 as described in „Transferring files from a computer“ on page 23. These files can be read out page by page. When you select a PDF file, you will see a circle in the top right-hand corner indicating the current page and the total number of pages in the PDF. Swiping across the screen from left to right takes you to the next page, swiping from right to left takes you to the previous page.

Delete saved documents

open the document to be deleted and unfold the menu bar. Now tap on the recycle bin icon to delete the document.

Main menu

Open/ exit main menu



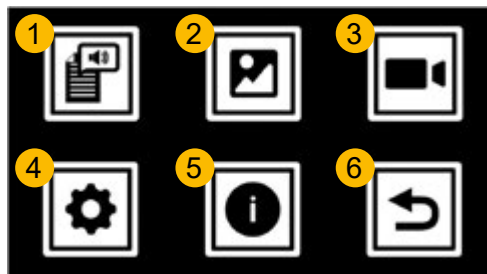
In the live view, briefly press the Home button to open the main menu.



Press the home button, the camera button or tap the back icon to close the main menu.



There are six options in the main menu:



1 Read aloud function

2 Gallery

3 Distance camera

4 Settings

5 System information

6 Back

Operation in the menu

There are two options for selecting menu items within the menus.



Move the joystick up, down, left or right to scroll through the symbols and have their meaning read out.

Press



the color mode button to confirm the selection,



the camera button to return or



the Home button to exit the menu.

Alternatively, you can simply tap the desired symbol with your finger.

Read aloud function



See „Text recognition and read aloud function“ on page 14.

Gallery



After selecting the gallery icon, select the photo or PDF icon to open the corresponding gallery. If you open the gallery in read-aloud mode, TXT/RTF is displayed as the third icon.

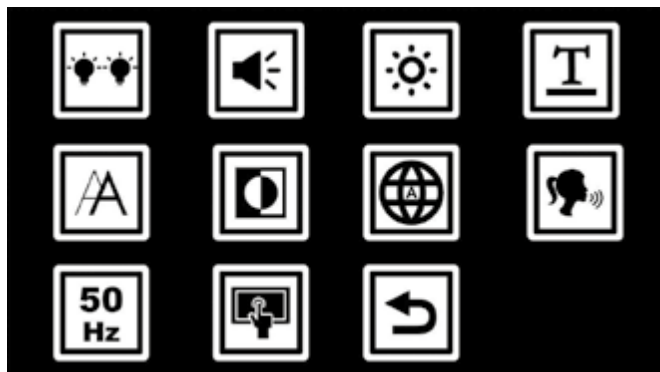
Distance camera



MANO 12 can be connected to a distance camera via the USB-C port. Please contact Reinecker Vision for more information.



Settings



LED lighting ON / OFF



By default, both LED lights are switched ON in near vision mode and switched OFF in far vision mode and the text-to-speech function. You can switch between the different lighting settings by pressing the symbol several times.

Volume



Slide the joystick to the left or right or press the magnification buttons to change the volume.

You can also tap on the displayed bar to adjust the volume.

To confirm, press the color mode button or tap "OK". To exit the setting, press the camera button or tap "Back".

Screen brightness



Slide the joystick to the left or press the magnification buttons to change the screen brightness. You can also tap on the displayed bar to adjust the screen brightness.

To confirm, press the color mode button or tap "OK". To exit the setting, press the camera button or tap "Back".

Line ruler or screen masks



In this setting, you can adjust the position of the line ruler and the width of the screen mask. Use the joystick or your finger to select the desired view. Press the joystick up or down to adjust the position of the line ruler or the width of the screen mask. You can also adjust the position of the line ruler and the mask by touching the screen.

To confirm, press the color mode button or tap "OK". To exit the setting, press the camera button or tap "Back".

In the live view, you can switch between the different views by simultaneously pressing the magnification buttons.

Setting the contrast (in false color mode)



Slide the joystick to the left or right or press the magnification buttons to change the contrast. You can also tap on the displayed bar to adjust the contrast.

To confirm, press the color mode button or tap "OK". To exit the setting, press the camera button or tap "Back".

In the live view, you can change the contrast by holding down the color-mode button and pressing the minus or plus button.

Color mode



You can hide unneeded semi colors here. Press the joystick right / left / up / down to switch between the colors. Press the color mode button to deactivate or activate a specific color mode. Alternatively, you can also tap the corresponding color combination with your finger. A crossed-out symbol means that this color combination is hidden.

To confirm, press the color mode button or tap "OK". To exit the setting, press the camera button or tap "Back".

Language



The default language is German. To change the language, press the joystick up or down and confirm your selection by pressing the color mode button. Alternatively, simply swipe your finger up and down and tap the desired language when you hear it.

Choose voice



For most languages, you can choose between a female and a male voice. To make the change, tap the female / male icon or press the color mode button to switch. The default voice is female.

Refresh rate



To change the refresh rate, select the Hz button (it will display either 50 Hz or 60 Hz) and press the color mode button or tap the icon to toggle between the options. The default value is 50 Hz.

Please only change this setting if you notice unpleasant flickering.

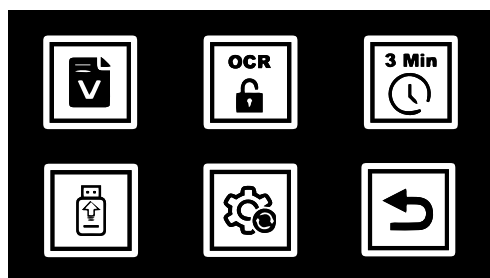
Touchscreen function



The touchscreen function is activated by default. To switch it OFF, tap the touchscreen icon or press the color mode button. To switch the touch function back on, press the color mode button again.



System information



Firmware version



You can view the current firmware version of MANO 12 here.

OCR and read-aloud function



No further settings need to be made here, as MANO 12 has an OCR and read-aloud function as standard.

Standby mode ON/OFF



To switch standby mode ON or OFF, either tap the icon or press the color mode button.

If standby mode is switched OFF, the MANO 12 only switches to standby mode when you briefly press the ON/OFF button.

Firmware update via USB stick



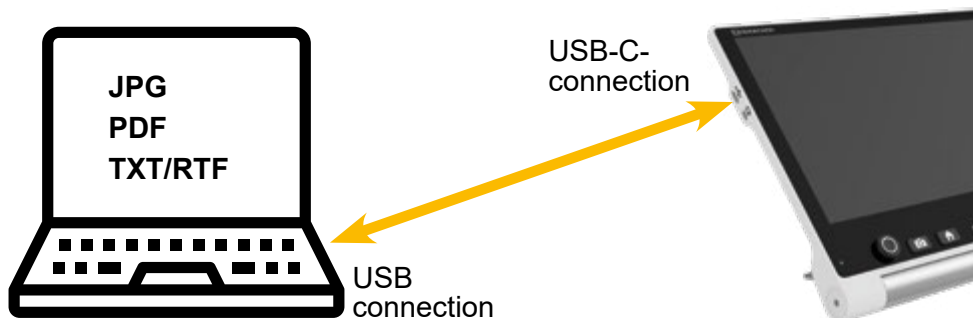
Only to be carried out by Reinecker Vision GmbH or an authorized specialist dealer.

Restore factory settings



If you select this menu item, the MANO 12 is reset to the factory settings. To confirm, press the color mode button or tap "OK". To exit the setting, press the camera button or tap "Back".

Transferring files from a computer



Files saved on MANO 12 can be transferred to a Windows computer using the USB cable supplied. Files on the computer (e.g. PDFs) can also be transferred to the MANO 12.

Make sure that your MANO 12 and the computer are switched on. Connect the computer and MANO 12 using the USB cable supplied.

How to transfer files:

You can find the files saved on MANO 12 under the following file path:
This PC\UltraOcta A80 OptimusBoard\MANO 12\DCIM.

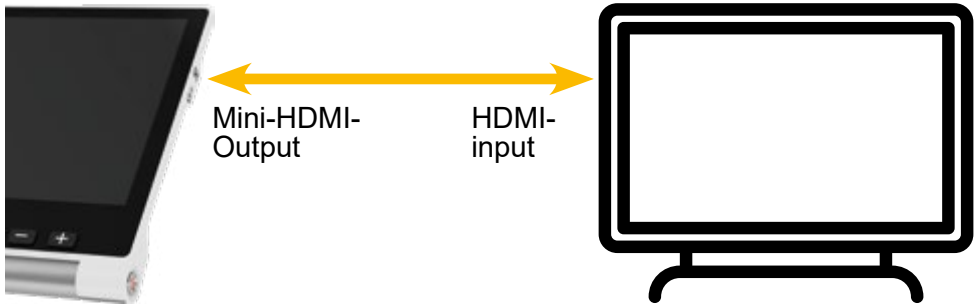
Files are stored in the following folders:

- PDF: for saving PDF files from your computer
- Photo: available JPG images in zoom mode
- Photo(OCR): available JPG images in read-aloud mode
- TXT/RTF: available text files in read-aloud mode

Attention:

Please do not change the folder names, otherwise MANO 12 will no longer be able to find any images transferred from the computer or previously saved.

Connection to a television or monitor



You can also transmit the camera image from MANO 12 to a TV or monitor. Connect MANO 12 to your external display device using the HDMI cable included in the scope of delivery. With most televisions, the input source must be changed in order to display the image from MANO 12. As soon as the connection is established, the image from MANO 12 will be displayed on your TV or monitor as well as on MANO 12. After 30 seconds of inactivity, MANO 12 goes into standby mode and the screen is switched OFF. Tap the screen to switch it ON again.

Handling the battery



Caution: To ensure a long battery life, it is essential that the instructions for operating and charging the battery are followed correctly.

- The battery must be fully charged before first use.
To do this, plug the mains adapter into the charging socket on the left-hand side.
- If the magnifier is not used for a longer period of time, the battery will lose its charge even when the device is switched OFF and this can lead to deep discharge and damage to the battery. This can be avoided by fully charging the battery beforehand.

Note: If the battery is almost empty, a red battery symbol appears at the bottom left of the screen and the status LED lights up red. The device switches itself OFF shortly afterwards unless you charge it.

Battery life and charging time

When the battery is fully charged, the operating time is up to approx. 3 hours.

When the device is switched OFF, the battery charging time is approx. 2 hours.

Status LED

You can see the current battery status from the different colors.

When the power supply unit is connected:

- red: the device is switched OFF and is charging
- orange: the device is switched ON and charging
- green: the device is fully charged

If the power supply unit is not connected:

- LED is OFF: the device is switched OFF
- green: the device is switched ON
(if the screen is black, it is in standby mode)
- red: the device is switched ON and needs to be charged

IV. Troubleshooting

Problem 1: Black screen

Solution:

- Make sure that the device is switched ON and not in standby mode.
- Charge the battery.
- Reduce the magnification level.

Problem 2: The image on the screen is dark or distorted

Solution:

- Make sure that the device is standing flat on the reading template.
- Make sure that the LED indicator lights up.
- check the screen brightness.

Problem 3: Stains or impurities on the screen

Solution:

- Clean the camera and screen with a soft cloth.

Problem 4: The device is connected to a TV or monitor, but no picture is visible on the display device

Solution:

- Make sure that the TV is switched ON.
- Make sure that the input source is set correctly on the TV set.
- Make sure that the HDMI cable is correctly connected to the TV set.

Problem 5: Error during voice output or "Not found" is displayed on the screen

Solution:

- Do not move the device or reading material while documents are being captured.

Problem 6: Incorrect language setting

Solution:

- Make sure that the language setting of the text capture matches the language on the reading material.

Problem 7: All other problems not mentioned in this manual.

Solution:

- Press the ON/OFF button and the Plus button simultaneously to force the system to restart.

If none of the above solutions help you, please contact your dealer or 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.

Your authorized distributor:

VI. Technical details

Type	MANO 12 (MANO1202/MANO1202LV)
Screen	12" touchscreen with approx. 29.4 cm diagonal
Screen resolution	1920 x 1080 pixel
Camera	13 megapixel
Magnification	approx. 2.7 to 19x approx. 2.5 to 19x on separate read/write stand
Storage capacity	approx. 13 Gigabyte
Dimensions (W x H x D)	approx. 29 x 22 x 2.4 cm
Dimensions of reading/ writing stand (W x H x D)	folded approx. 35 x 23 x 4 cm
Weight	approx. 1050 g Reading/writing stand: approx. 1230 g
Operating time	up to approx. 3.5 hours (depending on the lighting)
Battery charging time	approx. 2.5 hours
Power supply unit	Input: 100-240V AC / 2 A, 50/60Hz Output: 15V DC / 4 A



Manufacturer

Reinecker Vision GmbH International Contact

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

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.