

User manual

topolino tablet

NE



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.

Konformitätserklärung

Declaration of conformity

Wir erklären in alleiniger Verantwortung für unser System, dass dieses mit den folgenden Normen oder normativen Dokumenten übereinstimmen.
We declare under our sole responsibility that the system, which has been brought into the market by us, meets the requirements of the following directives.

topolino tablet (Art.-Nr.: TOPOTAB2)

Richtlinie 2014/35/EU Niederspannungsrichtlinie
Richtlinie 2014/30/EU (Elektromagnetische Verträglichkeit EMV)

EN 62368-1 Einrichtungen für Audio/Video-,
Informations- und Kommunikationstechnik

ROHS III, 2011/65/EU geändert durch 2017/2102/EU

Directive 2014/35/EU (low voltage directive LVD)
Directive 2014/30/EU (electromagnetic compatibility EMC)
IEC 62368-1 Audio/video, information and communication technology equipment
ROHS III, 2011/65/EEC amended by 2017/2102/EEC

Die CE-Kennzeichnung auf dem Gerät dokumentiert diese Übereinstimmung.
The CE mark on the system points out this accordance.

Alsbach-Hähnlein,

..... **15.09.2020**

Ort und Datum der Ausstellung
Place and date of issue

M. Reinecker Geschäftsführer
M. Reinecker General Manager

..... 

Name und Unterschrift des Befugten
Name and signature of the authorized person

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I. General Information

Important notes on the operation of topolino tablet!

Please read them carefully prior to the operation of the reading system!

Information on electromagnetic compatibility (EMC)

Directive 2014/30/EU electromagnetic compatibility (EMC)

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

This reading system is designed for the use in the indicated electromagnetic environment. The user should ensure the use in the indicated environment.

This reading system 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 reading 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.

Caution:

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 (page 7).

Storage of the user manual

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

Product description

topolino tablet is an opto-electronic reading system with an integrated camera to magnify text and pictures and to convert print into speech.

- Windows based 12.3" touch display (approx. 31.3 cm diagonal) on a tiltable stand
- Real-time magnification and text recognition of an entire A4 page, split screen function (display of 2 camera images simultaneously on screen)
- Reading camera with integrated LED lighting and distance camera
- easily foldable with practical carrying handle
- compatible with optional assistive technology software (e.g. SuperNova) and Office applications for Windows

Purpose

This opto-electronic reading system with voice output is a medical device to assist with the reading and magnifying of printed text and pictures (e.g. in the office, at home and during leisure time).

Safety advice

topolino tablet has to be installed in closed and dry rooms only. Do not plug topolino tablet 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 opto-electronic device should only be installed in conjunction with modern electrical circuitry.

CE labeling



topolino tablet meets the basic requirements of the Low Voltage Directive 2014/35/EU, as well as other relevant and applicable regulatory requirements and standards.

Precaution by alteration of the performance of the system

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 maintained and reconditioned by Reinecker Vision GmbH only or by an authorized technician. Reinstatement may only take place after the system has been cleaned and safety checked.

Cleaning of the system

- Disconnect the topolino tablet from electric outlet before cleaning.
- Clean the system with a slightly damp cloth and a mild household detergent.
- Interior of device must NOT come in contact with liquids.

Special care needed when transporting and storing

For safety reasons, the unit must only be transported and stored in the original packing. The unit must be stored in a dry, enclosed space, in the original packaging. The following conditions for transport and storage should be respected:

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

Environmental notice according to 2012/19/EU



MANO 6 contains electronic components. To avoid damage to the environment, the country-specific rules have to be respected.

Disposal or transfer of the device

This equipment may retain user settings and stored images if disposed of or transferred.

To reset the system to factory defaults, please follow the instructions in the Windows Help on support.microsoft.com

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.

Important note for scanning and reading of medication leaflets

Dosing quantities that have been read by topolino tablet **MUST** always be double checked and confirmed independently.

Always ask your doctor or pharmacist how to dose your medication, or refer to a person of your trust.

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 +5°C or above +40°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 lean on the screen, touch the screen with any object 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. This 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 for topolino tablet

Scope of supply

- topolino tablet reading system with integrated reading camera and stand with LED lighting
- Distance camera with USB-3 connection cable
- Power supply unit with connecting cable
- LED charging cable (Micro-USB to USB-C)
- carrying bag
- quick reference guide
- User manual
- Information sheet for repair cases

Setting up the system

Note: The device must be carefully removed from the packaging and placed on a stable surface with sufficient space.

Initial operation

Before you use the device for the first time, you must fully charge the battery. For more information, see „Handling the battery“ on page 25

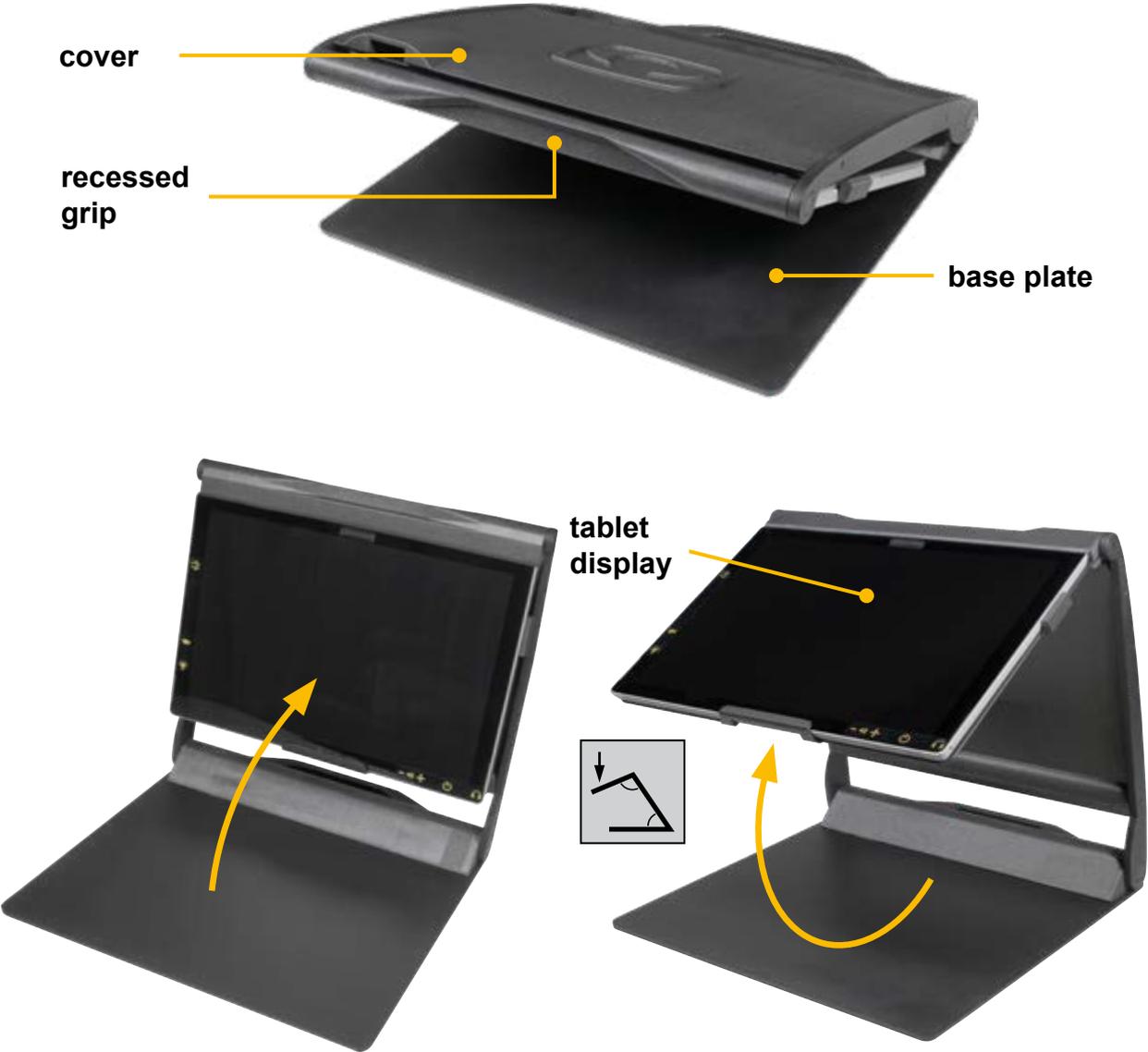
Caution: The AC adapter provided is designed to be used with this system only. Do not use any other AC adapter.

Folding up the topolino tablet

topolino tablet is supplied with a stand that holds the display in a suitable reading position. The stand is equipped with a carrying handle for secure transport. To use the topolino tablet, the stand must be folded up (see illustration) and the display must be brought into a comfortable reading position.

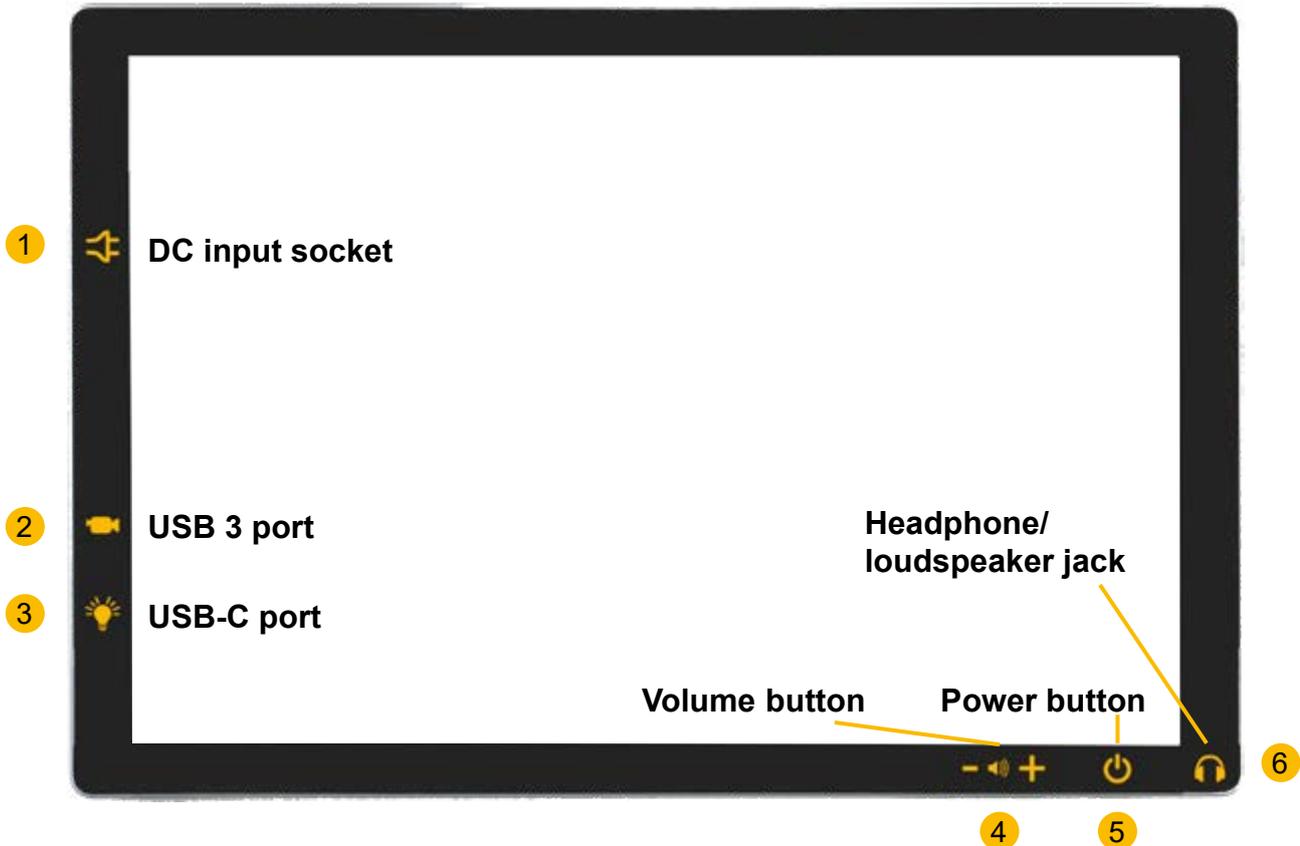


To unfold the system, hold the base plate firmly with one hand so that you can use the other hand to push the upper side of the stand upwards using the recessed grip. Then align the display in the optimal reading position for you.



Caution:
If the display is not opened far enough to hold its position, it is possible that it will automatically fold down again. In this case, you must slightly increase the angle of inclination.

Ports and buttons on the device



1) DC input socket

Connection for the power supply unit (DC plug)

Note: Only use the supplied AC adapter for mains operation or to charge the battery.

2) USB 3 port

For connecting the distance camera (USB 3 plug)

3) USB-C port

For charging the illumination

4) Volume button

5) Power button

Briefly press the power button to turn ON the system. When pressing the power button for approx. 3 seconds while the system is turned ON, the option to turn OFF the system by swiping down, appears. Alternatively, you can also switch off the system via the Windows Start menu.

A short press while the system is on switches the system to sleep or standby mode. Pressing it again deactivates the sleep or standby mode and the system is ready for operation again.

Note: Please note that the system will not shut down completely in sleep or standby mode and will continue to consume battery power. Please make sure that the battery is not completely discharged. For more information on deep discharge, see page 25.

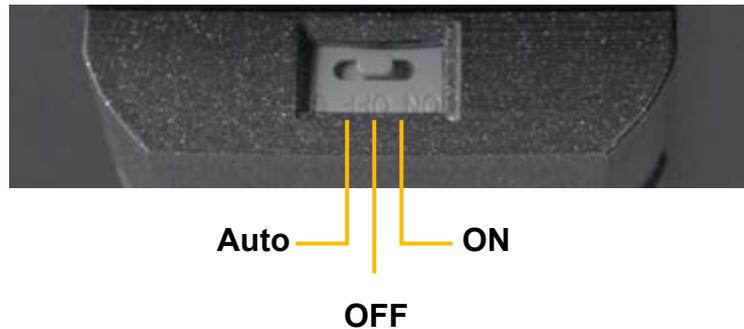
Sleep or standby mode can be configured via the Windows system settings.

6) Headphone/loudspeaker jack

For connecting audio output devices (e.g. speakers, headphones) or a headset with microphone

Illumination of the reading templates

Illumination for better image quality and increasing accuracy of the text recognition is integrated in the stand located directly under the display. On the left side of the illumination there is a small switch which can be set in three different positions:



ON: Move the switch to the rear to turn illumination permanently ON.

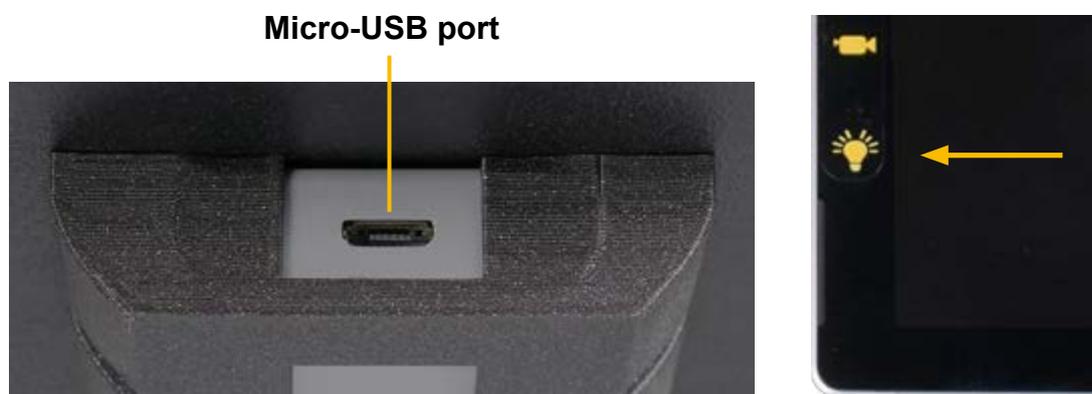
OFF: Move the switch to the middle position to turn illumination permanently OFF.

Auto: Move the switch to the front to activate automatic lighting. In that mode, illumination remains ON permanently as long as movement can be recognized. With no movement for approx. 25 sec. light turns into energy saving mode and turns OFF automatically. Once movement is being detected again, light turns ON automatically.

Note: we recommend to set the light to ON position, as motion sensor may be influenced by alternating external light influences.

To charge the battery of the illumination

Use the supplied USB charging cable to charge the illumination. To do so, connect the Micro-USB plug of the charging cable with the Micro-USB port on the left side of the illumination and the USB type C plug with the USB type C port on the side of the display. The unit must be switched ON to charge the battery.



Replacing the Illumination

The illumination of the stand is equipped with an LED light source. If it is necessary to replace the illumination, this must be carried out by an authorised specialist or by the customer service of Reinecker Vision GmbH.

Connecting the distance camera

To attach the distance camera, insert the spigot of the camera mount into the recess provided on the top right of the tripod.

Then connect the USB 3 plug of the distance camera with the USB 3 port on the side of the display.



Turn ON the system

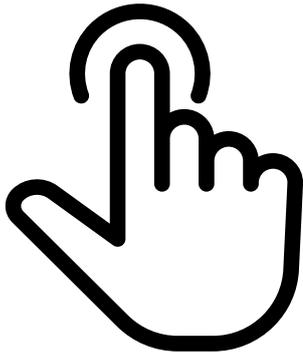
Press the power button (see page 13) on the front of the display for about 4 seconds to turn the system ON. Please wait until the MS-Windows 10 operating system is booted and the desktop with the user programs is shown on the display.

Operation of topolino tablet

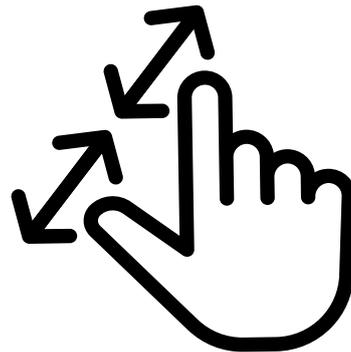
topolino tablet can be operated easily and intuitively via the touch screen. Alternatively, you can connect mouse and keyboard (e.g. with Bluetooth) and control the application software with the mouse or keyboard shortcuts. For a description of the shortcut keys, see „Keyboard shortcuts“ on page 24 (only works when a country specific keyboard is connected).

Focus and magnification adjustment with the touch function

To focus and change the magnification in Document Mode, the following touch gestures can also be used directly on the displayed image:

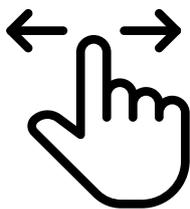


tap once to focus



two finger zoom function

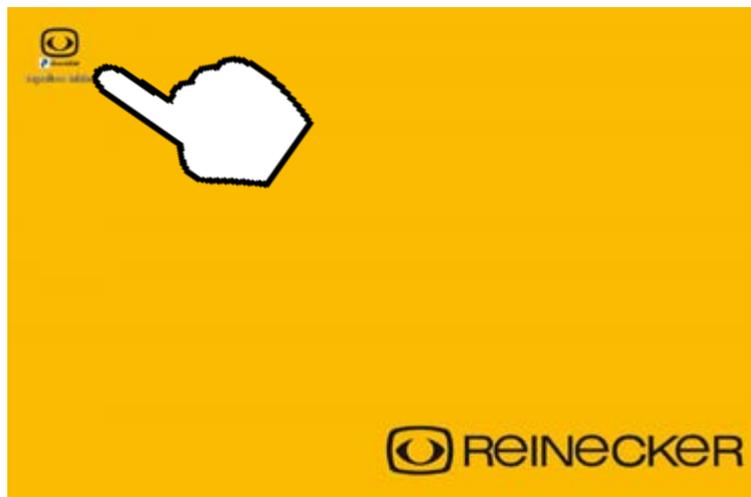
A white square appears on the display during focusing. When focusing is complete, the square will change color to green for a short time and a beep will be heard.



In Distance Mode, you can move the already magnified image with your fingers without re-adjusting the magnification on the distance camera.

Start “topolino tablet” application software

After the system was booting, the user software “topolino tablet” usually opens automatically. To open it manually, go to the eye symbol in the top left corner and open the software, e.g. with a double tap on the touch display. After opening, the system switches directly to the document mode to display the enlarged document underneath in a high-contrast.



The topolino tablet user software

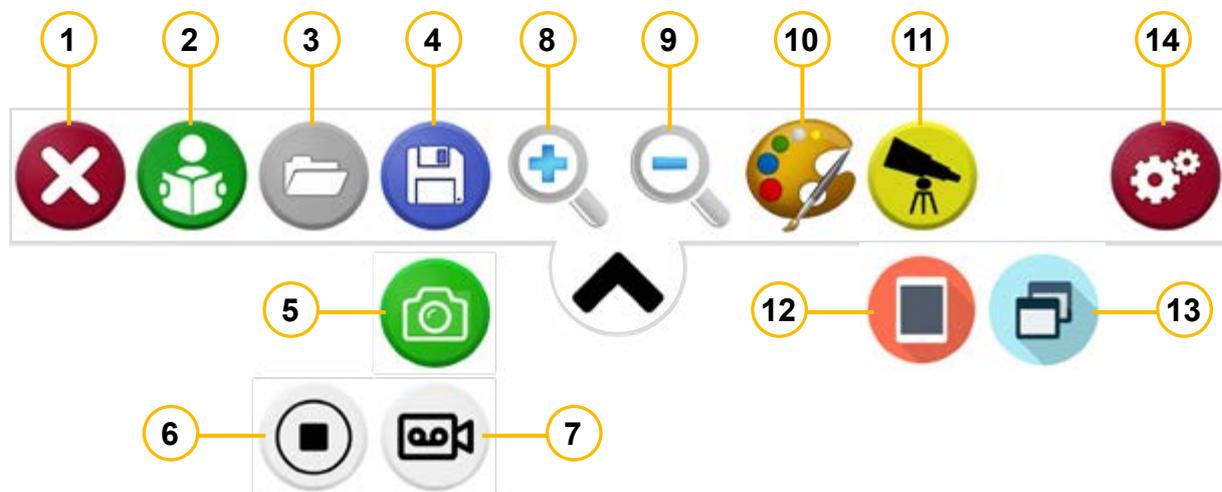
If the distance camera is connected, two different views are available. In Document Mode, you can read and write using the camera located under the display. In Distance Mode, you can view the image from the Distance Camera. For example, if you want to copy a blackboard image, you can activate screen splitting and view both camera images at the same time.

Show / Hide toolbar



By tapping the arrow symbol you can hide and show the toolbar. The symbol page is located at the top of the screen by default. You can adjust the position in the settings („General“ on page 21).

Controls of the toolbar



- | | |
|--|--------------------------------------|
| 1) exit topolino software | 8) zoom in |
| 2) starting text recognition and reading | 9) zoom out |
| 3) open picture gallery | 10) change color mode |
| 4) save picture/video | 11) distance mode |
| 5) take picture | (with distance camera connected) |
| 6) record video | 12) document mode (in distance mode) |
| 7) stop recording and save video | 13) split screen (in distance mode) |
| | 14) settings |

View magnified documents



You can change the magnification of the reading template or the distance camera image with the zoom in/out icons. In Document Mode, you can also use your fingers as described in „Focus and magnification adjustment with the touch function“ on page 15

Saved images can be enlarged, reduced and moved using the touch function.

Change color modes



Tap the color modes icon to choose between the different screen color modes:

true color mode

 white on black

 black on yellow

 black on green

 black on red

 yellow on blue

grey scale mode

contrast-optimized true color mode

 black on white

 yellow on black

 green on black

 red on black

 blue on yellow

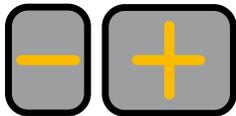
Using the distance camera



If the distance camera is connected, the distance mode icon appears in the toolbar. The distance camera is used to view objects (e.g. blackboard) that are further away and can be easily adjusted by hand. Tap the distance mode icon to switch from document mode to distance mode.

In distance mode you will find two new options in the toolbar.

Controls on top of the distance camera



Autofocus:

press the - / + buttons simultaneously to switch the autofocus of the distance camera ON or OFF.

Zoom + / -:

The magnification can be continuously adjusted with the - / + buttons.

Return to document mode



To exit Distance Mode and return to Document Mode, tap the Document Mode icon.

Split screen function ON/OFF



Screen splitting allows both camera images (distance camera and document camera) to be shown on the display simultaneously. This can be useful when, for example, you want to read from a blackboard and take notes.

Tap the icon to display the distance camera image in the upper half and the reading camera image in the lower half. The camera on whose image the toolbar is displayed is active and can be operated. Tap on the second camera image to switch to the other camera. The toolbar is now displayed there. To return to the distance camera view, tap the split screen icon again.

Exiting the program



If you want to quit the topolino tablet software, tap on the X, then you will return to the Windows start interface (desktop). If you tap the icon, e.g. in read-aloud mode or in the settings, the current selection is canceled.

Text recognition and TTS function



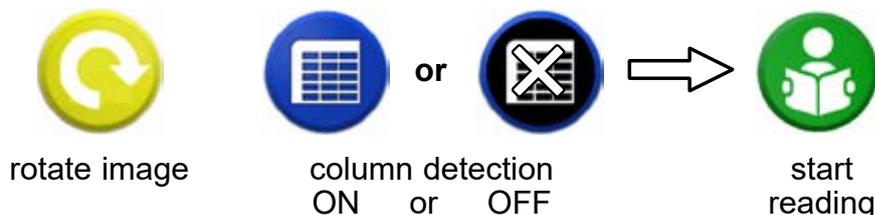
The text recognition of the live image can be activated by pressing the read aloud icon. The correct rotation of the text is automatically detected and the text will be read aloud after a short time of processing. You can save the captured text in a file, whereas the captured image will not be saved.

Tip: Recording A4 documents

To record a A4 document in one step, move the display upwards until it is positioned horizontally. Place the document horizontally under the display so that the entire A4 document is displayed on the display. After you have recorded the document, you can move the display back into a comfortable reading position.

Use read-aloud function for saved images

Open the image you want to have read aloud as described in „Open saved images“ on page 20 and make your individual adjustments before you start reading.



Rotate images



If the captured image is turned sideways or upside down, you must rotate the image before capturing it. Tap the yellow Rotate Image icon to rotate the image clockwise in 90-degree increments.

Column detection ON/OFF



or



By default, the individual columns in the text are recognized and read out column by column. For documents with a tabular structure, such as invoices or bank transfers, the column recognition must be switched OFF so that the text is read line by line. In this case, tap on the blue symbol at the top center of the screen to deactivate column recognition. To reactivate column recognition, tap the blue symbol again.

Starting text recognition and reading



If the image is correctly rotated and the column recognition is adapted to the document, you can have the visible text in the image read aloud. Tap on the read aloud symbol at the top right of the display and the text in the image is recognized and read aloud.

TTS mode

There are two different viewing modes that you can set in the main menu under “General” on page 21. In the original view you see the **original image** and the text is marked at the position currently read aloud. In the **wrapped mode**, the image is displayed in a previously selected color combination to optimize contrast. The color combination can be set as described under „Reading“ on page 22.

Operation in the original view

By default, reading aloud starts immediately after the text recognition is completed. To stop reading aloud, tap anywhere on the screen. To continue reading aloud, tap on the point at which you want to start reading aloud.



To save a captured document as a text file, tap on the disk icon in the upper right corner. The text is saved in the Documents folder “topolino tablet” with the current date as file name.

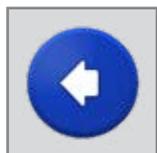
Operation in wrapped mode

In this mode reading aloud starts immediately after completion of the text recognition process and is operated using the symbols displayed. You can mark the text by double-tapping on a text passage. If you press your finger on the marked text longer, you can copy the corresponding text passages.

The following controls are available:



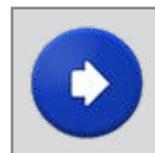
stop
reading



backwards
sentence by
sentence



pause / start

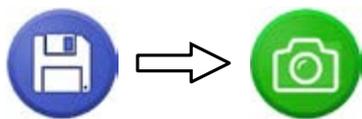


forward
sentence by
sentence



save file

Save and open images



To take a picture, press the blue disk icon first, followed by pressing the green camera icon. This image will be saved within the folder „images“ topolino tablet, sorted by date of capture.

This function is recommended if you need to recall an frequently. If you only need the captured text without the image, you can also capture the live image and then save only the text.

The saved images can be rotated and read aloud as described under „Text recognition and TTS function“ on page 18.

Open saved images



Tap the folder icon to access the saved image data. In the Image Files menu window, all saved images are collected in folders and displayed in chronological order. You can also rename folders by tapping the blue folder icon. To delete folders, tap the red “Trash” icon.

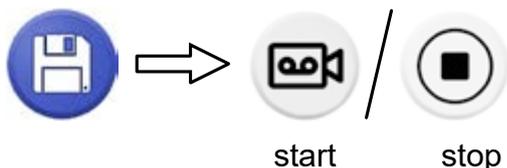
	Bilddateien	
2-11-2019		
2-20-2019		

Select an image file and open the folder with a short tap. While viewing the images in full screen mode, you can set the desired zoom factor or color mode.



If there are multiple images in a folder, use the left and right arrow keys to navigate through the open images.

Recording videos



If you want to record a video, you need to tap on the blue disk icon and then tap on the video camera icon. To stop recording, tap the “stop” icon. The recording is saved in the folder Videos --> “topolino tablet”.

Settings



Tap the Settings icon to open the Settings menu. The following categories are available:

- **General**
- **Speech**
- **Reading**

Ending the menu

By tapping on “Exit” you leave the settings and return to the previous view.

General

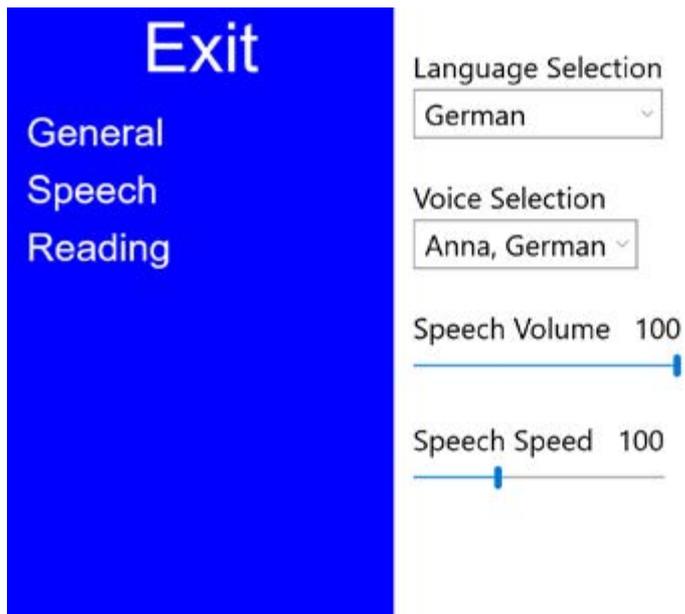
The screenshot shows the Settings application interface. On the left is a blue sidebar menu with the word "Exit" at the top and three options: "General", "Speech", and "Reading". The "General" option is selected. The main content area on the right displays the following settings:

- Save Pictures to My Pictures /
topolino tablet
- Save Documents to My Documents /
topolino tablet ×
- Distance Camera Orientation
Original ▾
- Distance Camera Frequency
60hz ▾
- Menu Language Selection
English ▾
- Menubar Alignment:
Top ▾
- Distance Camera Video Stabilization
Off ▾
- Serial Number:

The following settings can be made here:

- set the storage location of image files
- set the location of text files
- distance camera orientation: original display or rotated by 180 degrees
- frequency of the distance camera: 50hz/60hz
- select the menu language
- set the position of the menu bar
- switch distance camera video stabilization ON or OFF

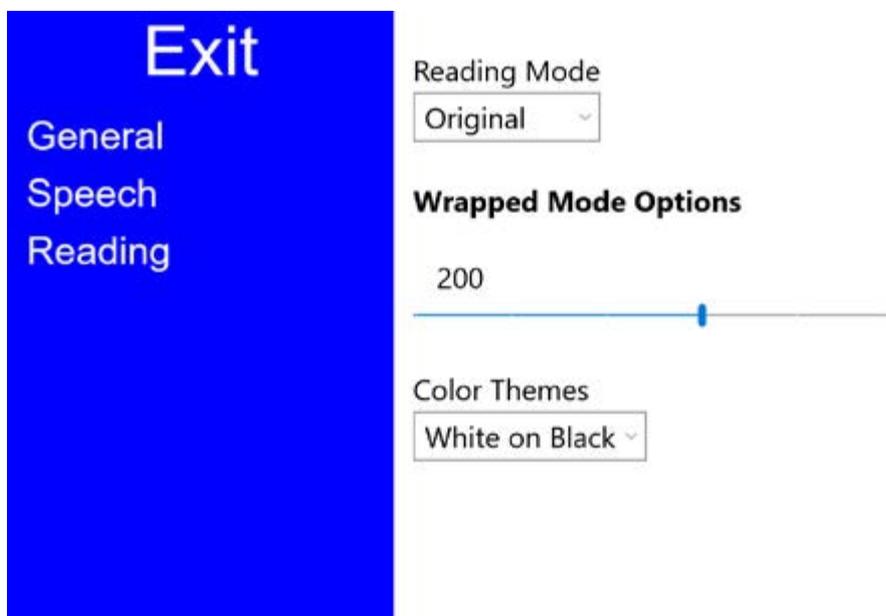
Speech



The following settings can be made here:

- select the reading language
- select the voice
- set the speech volume
- set the speech speed

Reading



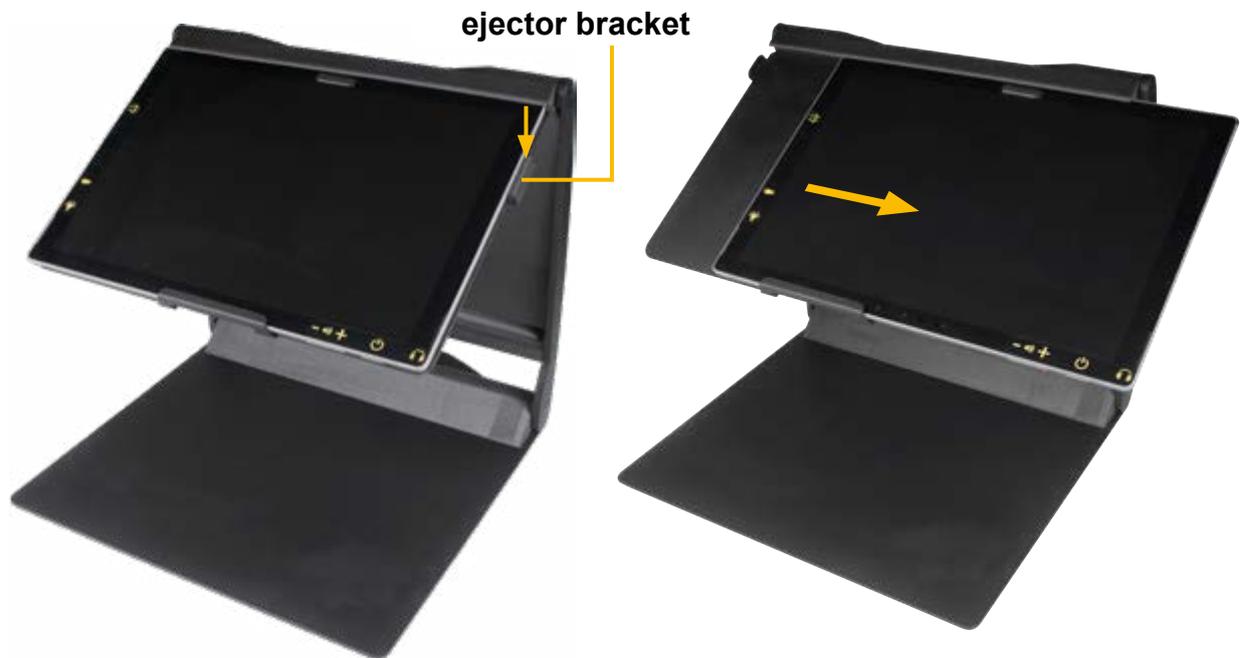
The following settings can be made here:

- select the visualization mode while using the TTS function: original or wrapped
- set the text size in the wrapped mode
- choose the color theme

Remove the display from the stand (not recommended)

To remove the display from the stand, press the ejector bracket on the top right plate of the stand down slightly. Then gently slide the display to the right out of the stand. To replace the display, first press the ejector bracket down slightly and slide the display carefully to the left into the stand.

The ejector bracket prevents the display from accidentally sliding out. When inserting the display, make sure that the power button and interfaces are on the right so that the camera is in the correct position under the display.



Attention: When removing or inserting the display from or into the display mount, make sure that no damage is caused by improper handling.

Bluetooth keyboard and mouse (optional accessory pack)

The Bluetooth input devices can be added or configured in the Windows settings, Bluetooth devices. Please follow the instructions of MS-Windows and the technical equipment of the Bluetooth keyboard and mouse when setting up Bluetooth. (Only available in “QWERTZ” German keyboard; for other keyboard, please check availability in your country.)



Keyboard shortcuts

key(s)	Function
[CTRL+ALT+T]	open the program „topolino-tablet“
[Esc]	exit program or menu
[+]	zoom in
[-]	zoom out
[Enter]	open the menu bar and focus
[F]	focus
[C]	toggle color mode
[D]	toggle active window between distance and near (Split screen mode only)
[P] / [Space Bar] [R] [Arrows] [O]	when in TTS mode: take a picture rotate image move image OCR
[Z]	start/stop video recording
[TAB] [Space Bar]	choose icon confirm
[S] [TAB] [Arrows]	open settings choose icon, tab or setting change and choose tab and/or setting

Handling the battery

use of the battery

Attention: A prerequisite for a long life of the battery is the correct observance of the instructions for operating and charging the battery.

- Before using topolino tablet for the first time, the battery must be fully charged.
- If the system is not used for a longer period of time, the battery is losing its capacity even when the topolino tablet is turned OFF, and the battery may be totally discharged and damaged. This can be avoided by fully charging the battery beforehand.

Note: If the battery is almost discharged, the system turns OFF automatically. In this case, connect the AC adapter to recharge the battery.

Charging the battery

- To charge the battery, connect the supplied AC adapter to the power supply and connect the DC plug to the DC input socket on the system.
- During charging, the power indicator (when the system is turned OFF) lights up red.

Replacing the battery

- The battery may only be replaced by Reinecker Vision GmbH or an authorized dealer.

Battery operating time and charging time

- When the battery is fully charged, the operating time in tablet mode is up to approx. 10.5 hours.
- When the “topolino tablet” is turned OFF, the charging time of the battery is approx. 1.5 hours.

Charging another device at the USB port of the power supply

On the power supply unit there is a USB port which can be used to charge another device (e.g. cell phone). Please use only the original cable of the manufacturer for charging.



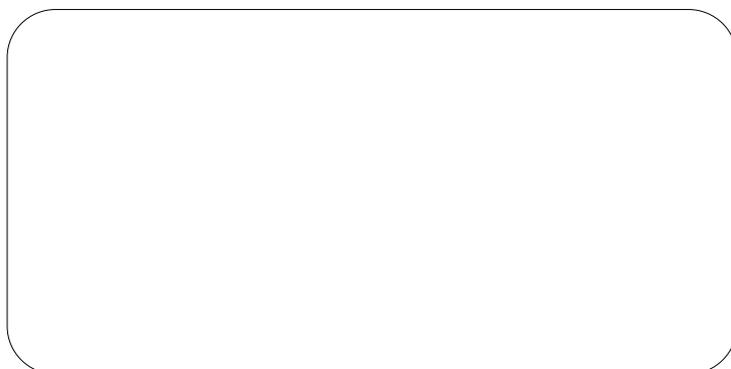
Warranty Information

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 authorised specialists may lead to invalidity of warranty.
5. Partial warranty is valid for light sources serving to illuminate the reading object, batteries and other parts subject to wear and tear.
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. Prior to return you have to ask for an official RMA number issued by the manufacturer. The manufacturer does not carry the cost for transport, packaging and insurance.

Phone number: +49 6257 93110

View our General Terms and Conditions.

Your authorized distributor:



Technical details

screen	12.3"-Touch-Display with approx. 31.3 cm screen diagonal
internal camera	8 Megapixels
magnification	min. x1-60 in document mode
Operating system	Windows 10 home 64-Bit
measurements (w x h x d)	approx. 30 x 30 x 32 cm
measurements (w x h x d) folded	approx. 30 x 4,5 x 32 cm
operating time	up to approx . 10.5 hours in tablet mode
charging time	approx. 1.5 hours
power supply	15V DC approx. 4,0 A (device), 5V DC /approx. 1 A (USB port)
weight	approx. 3.0 kg

Type: **topolino tablet (TOPOTAB2)**

Serial number:

Manufacturer: Reinecker Vision GmbH

Final examination:

Power supply: 100 VAC – 240 VAC 50-60 Hz

With plug-in power supply: 15V DC/approx. 4,0 A

Power consumption: max. 65 watt

**Reinecker Vision GmbH
International Contact**

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



**Reinecker Vision GmbH
Zentrale**

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

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