

Quick guide

# ALLNET Rugged Tablet PC

## Xtrail-100-light

ProductNo.: 10 inch (222807)



## Package contents

Please check the contents of the packaging before continuing to operate the display.

- ALLNET Xtrail-100-light 10" Tablet
- 5V power supply unit
- Printed quick guide

## General information

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The device is a display that can be operated with Android or Linux. Power is supplied via a power supply unit or PoE (power via network cable). Changes to the operating instructions and the functions described are possible at any time and do not require the consent of third parties and are not covered by the warranty. If you have any questions about specific functions, please contact our sales department.

## Target group of the operating instructions

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The operating instructions are intended for any person using the device.

- set up,
- served
- cleans or
- disposed of.

## Conventions and symbols

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The following text formats are used in these instructions. These serve to increase the clarity of the instructions.

## Chapter heading

### Subheading

Simple text

**Important information in plain text**

*Designates buttons, components, functions*

# Warnings

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The warnings in these operating instructions are structured according to the following scheme:



The signal word "**DANGER**" indicates a warning of immediate danger to life!



The signal word "**WARNING**" indicates a warning of possible danger to life and/or serious irreversible injuries!



The signal word "**CAUTION**" indicates a warning of possible moderate or minor injuries!



The signal word "**CAUTION**" indicates possible material damage.



"**Note**" indicates useful or important information about the product.

## Guidelines and standards

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This device complies with the following directives:

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- EMC Directive 2014/30/EU
- Radio Equipment Directive 2014/53/EU
- Eco-Design Directive 2009/125/EC
- RoHS Directive 2011/65/EU.

Hereby, ALLNET Computersysteme GmbH declares that the ALLNET PoE Displays are in compliance with the essential requirements and other relevant provisions of the following directives and Directive 2014/53/EU.

The full text of the EU Declaration of Conformity is available at the following Internet address: <http://ce.allnet.de> and at the end of the instructions.

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EU contact details:

ALLNET GmbH Computersysteme Maistrasse 2 82110 Germering

Phone +49 (0)89 894 222 - 22

Fax +49 (0)89 894 222 - 33

Email: [info@allnet.de](mailto:info@allnet.de)

Fax +49 (0)89 894 222 - 33

Email: [info@allnet.de](mailto:info@allnet.de)

## Disposal of the packaging

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**GEFAHR**

Risk of suffocation from foil and other packaging materials. Do not leave the packaging and its parts to children. Dispose of the packaging in an environmentally friendly manner. Ask the dealer or the municipal waste disposal facility about the possibilities for disposing of the packaging in an environmentally friendly and appropriate manner.

## Packaging Ordinance

This product contains the following materials:

Outer packaging: cardboard box PP02

Inner packaging: Polyethylene PE04

Other: Paper

## Disposal of the device

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Old appliances are not worthless waste. Valuable raw materials can be recovered through environmentally friendly disposal. This appliance is labeled in accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). At the end of its service life, this product must not be disposed of with normal household waste, but must be handed in at a collection point for the recycling of electrical and electronic equipment. This is indicated by the symbol on the product, the instructions for use or the packaging. The materials are recyclable according to their labeling. The reuse, recycling or other forms of recovery of old appliances make an important contribution to protecting the environment. Ask your dealer or local waste disposal facility about the options for disposing of the appliance in an environmentally friendly and appropriate manner.



As a consumer, you are obliged to take all batteries and rechargeable batteries, regardless of whether they contain harmful substances or not, to a collection point in your municipality/district or to a retailer so that they can be disposed of in an environmentally friendly manner.



**HINWEIS**

Permanently installed appliance batteries or rechargeable batteries may remain in the appliance when disposed of via the collection point.

## General security



The product is intended solely for the purpose for which it was designed. Only use the product as described in the operating instructions. Any other use is considered improper and may result in material damage.

The manufacturer or dealer accepts no liability for damage caused by improper or incorrect use. All safety instructions must be read carefully and these operating instructions must be kept for future reference. All warnings and instructions in these operating instructions must be followed.

Keep the operating instructions and pass them on to any subsequent owner.



### Safety instructions for handling the plug-in power supply unit

The plug-in power supply unit may only be connected to a **mains voltage of 100-240 V~, 50/60 Hz.** Never operate the plug-in power supply with any other voltage.

-  Only use power supply units that are approved for this device.
- Only connect the plug-in power supply after the installation has been completed correctly.
-  Only connect the appliance to a properly installed and earthed mains socket. The mains voltage must match the specifications on the appliance's rating plate.
- The socket outlet should be as close as possible to the appliance.
- Avoid the use of multiple sockets. Ensure that the mains cable or plug is always easily accessible so that the appliance can be quickly disconnected from the power supply.
- Lay the power cable so that no one can trip over it.
- Plug the mains adapter fully into the socket.
-  Do not touch the plug-in power supply unit with wet hands, risk of electric shock.
- If the plug-in power supply unit is defective or if the appliance is damaged in any other way, it must not be put into operation.
- Do not pull the plug-in power supply unit out of the socket by the cable.
- The appliance remains connected to the mains even when it is switched off. Unplug the mains adapter from the socket if the appliance is to be used for a longer period of time.

period is not used.

- In the event of malfunctions or smoke and odors from the housing, immediately unplug the power supply unit from the socket.

### **(⚠) WARNUNG**

## **Safety instructions for setting up the appliance**

- DO NOT place the appliance near radiators, air conditioners or water sources. Otherwise there is a risk of electric shock, short circuits or fire, as water may come into contact with the appliance.
- Make sure that the humidity is between 20 % and 80 % and that no condensation forms.
- Ensure that the device is NOT exposed to direct sunlight, extreme heat, naked flames or dust. Otherwise there is a risk of electric shock, short circuit or fire.
- The device is designed for use in closed rooms.
- The openings on the back of the appliance are used for ventilation to prevent the appliance from overheating. These must always be kept clear.
- To avoid damage, always place the product securely.

### **/// VORSICHT**

## **Safety instructions for operating the appliance**

- Read these operating instructions carefully before using the appliance!
- The device can only be operated with the voltage described on the back and on the power supply unit.
- Replace any existing batteries only with the same or an equivalent battery.  
Battery type
- Do not use any appliances that are obviously faulty. If the appliance does not work normally - especially if unusual noises or odors occur - unplug the power plug from the socket immediately.
- If the cables are damaged, the appliance must no longer be used.
- Do not place the appliance on an unstable surface. The appliance could be damaged or people could be injured. Any fixings should only be fitted in accordance with the manufacturer's instructions or obtained from the manufacturer.
- Do not expose the device and the remote control to direct sunlight. This impairs the function and could lead to damage
- Do not use the appliance in a damp environment or near gas flames, hotplates or other hot objects.

- Keep the appliance dry.
- Protect the device from the effects of weather such as wind, rain, humidity and moisture.
- Do not permanently display a still image. This could damage the display.
- Do not open the housing, but contact your specialist dealer or the manufacturer for repairs.
- Work may only be carried out on the appliance if it is disconnected from the power source.  
was separated.
- Ensure that the appliance is only operated by persons who have read the instructions or have been instructed in its operation by a competent person.



### Safety instructions for repair and maintenance

- Repairs and maintenance work may only be carried out by customer service or by specialist personnel authorized by the manufacturer. Incorrect repairs can result in considerable danger to the user.
- Regular maintenance by the manufacturer is not necessary.
- Never attempt to repair a defective appliance yourself. Always contact one of our customer service centers.
- Do not open the appliance under any circumstances. This may only be carried out by customer service or by specialist personnel authorized by the manufacturer. Otherwise there is a risk of electric shock.
- Operators may only rectify faults themselves if they are obviously due to operating errors.
- Clean the display regularly.
- Disconnect the mains plug from the socket before cleaning.
- Do not use liquid cleaners or cleaning sprays. The appliance may only be cleaned with a damp cloth.
- It is prohibited to make modifications to the appliance.
- Damaged devices or damaged accessories may no longer be used.



## Intended use

The tablet is suitable for both commercial and private use.

We cannot accept any liability for non-functioning third-party apps from the Playstore and this is not a defect or warranty case. If you do not have in-depth experience with the Android operating system, please contact our hotline beforehand. The tablet is a rugged tablet with operating system and can be supplied with power via battery or mains adapter. A replaceable battery is integrated. The operating system is Android (installed). This device complies with CE regulations.

The manufacturer accepts no liability for damage caused by improper use. Read the operating instructions carefully before commissioning. Only then can all functions be used safely and reliably.

## Operating conditions

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The device is designed for use in enclosed spaces and must be protected from excessive dust, extreme temperatures, moisture and condensation. The environmental requirements are specified as follows:

### **Operating conditions:**

Temperature 0° - +40°

Humidity 20% - 80% non-condensing

### **Storage conditions:**

Temperature 0° - +60°

Humidity 10% - 90% non-condensing

## Frequency data X-Trail 100 Light

<b>Operating Frequency</b>	2402-2480MHz, 2412-2472MHz; 5150-5250MHz, 5250-5350MHz, 5470-5745MHz, 5745-5825MHz
<b>Modulation type</b>	BT(BLE):GFSK 2.4GWIFI; 802.11b:DQPSK, DBPSK, CCK 802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK 5GWIFI: 802.11a/n:64-QAM, 16-QAM, QPSK, BPSK 802.11ac:256-QAM, 64-QAM, 16-QAM, QPSK, BPSK
<b>Bluetooth Version</b>	V5.0
<b>Hardware Version</b>	V1.0
<b>Software Version</b>	V1.0
<b>Antenna designation</b>	PIFA Antenna(Temporary RF connector provided by manufacturer) RP-SMA Male Whip Antenna
<b>Antenna Gain</b>	BT: 2dBi 2.4GHz WIFI:2dBi 5GHz WIFI:2dBi

## LTE & GPS X-Trail 100 Light

WWAN	Option: EC-25EC (Europe/Middle East/ Africa/Korea/Thailand)  LTE FDD: B1/B3/B7/B8/B20/B28A  WCDMA: B1/B8  GSM: B3/B8	WIFI  Bluetooth   GNSS	802.11a/b/g/n/ac, 2.4G+5.8G  Dual-band WIFI Bluetooth 4.0 (BLE) class1, Transmission range:  10m  U-blox GPS+GLonass
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## Technical details X-Trail 100 Light

- MTK8781 (G99), 8 Cortex, 2.2GHZ
- Resolution: 1920\*1200 800cd/m<sup>2</sup> IPS panel
- Android 13 with Google license
- 10-point capacitive multi-touch screen
- for 10" inch 4GB/16GB
- Dual microphone
- Camera Front: 5MP Rear 13MP autofocus.
- Ethernet 100/1000M RJ45 PoE IEEE802at
- WLAN Wi-Fi AC (IEEE 802.11 2.4/5GHz a/b/g/n/ac)
- Bluetooth 4.0 BLE (2.4GHz)
- Speaker 1.2W/8Ω aluminum film, IP67 waterproof
- HD out
- USB3.0 Host/ USB OTG (Upgrade)/ SD Card
- Car mount (optional)
- Military Drop Test 1.2m
- Power supply unit: 12V
- Operating temperature: -20° ~ +60 °C
  - Operating humidity: 10% ~ 90% (non-condensing) Storage temperature: 0 ~ 70 °C
  - Storage humidity: 0% ~ 90% (non-condensing)
- Labeling: Ce/RoHS
- Dimensions 275\*179.2\*21.8 mm

### Plug-in power supply Android X-Trail 100 Light

Manufacturer	SHENZHEN INNOVATOR ELECTRONIC LIMITED ADD : 2F, No.27 building of 5th industrial district,TianLiao Community,GongMingTown,GuangMing New Area, ShenZhen
Type	IC-0503000
Input voltage	100 - 240 V
Input frequency	50 - 60 Hz
Input current strength	1.5A
Output voltage	5 V
Output current	3 A
Output power	15 W
Average efficiency in operation	87,50%
Efficiency at low load (10 %)	87,50%
Power consumption at no load	0,075 W
Energy efficiency class	VI

## Upper control panel (connections must open rubber cover for use) X-Trail 100 Light



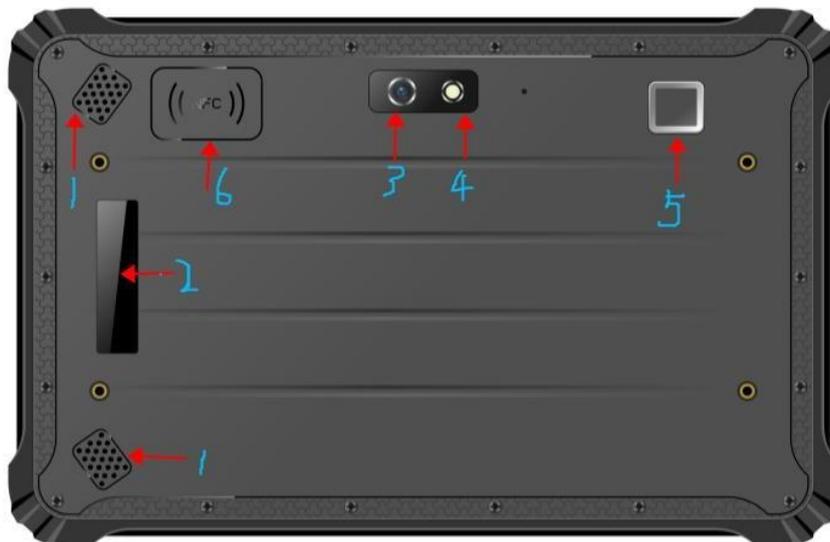
- 1 pogo pin: for extending the dock, keyboard, etc.
- 2 pogo pin hole: for attaching the device to the base
- 3 DC hole: Connection of the adapter for charging the device
- 4 Type A port: USB devices can be connected
- 5 Type-C port: supports OTG function
- 6 Headphone socket: for audio output
- 7 HDMI: high-resolution audio and video output
- 8 User-defined buttons
- 9 On/off button
- 10 Volume +
- 11 Volume -
- 12 user-defined buttons
- 13 TF card slot and SIM card slot

## Front X-Trail 100 Light



1. Lens of the front camera
2. Charge level indicator
3. MIC
4. Microphone
5. Light sensors
6. Receiver

## Rear X-Trail 100 Light



- Speakers: two speakers, sound output.
- SN label
- Rear camera
- Flashes
- Fingerprint sensor for fingerprint recognition, comparison.
- (optional)
- NFC reader (optional) Reads data from electronic NFC roll labels.

## Remark:

Depending on the model you have purchased, the appearance of the tablet may differ from the illustration in this manual.

Open the protective cover to see the connection. When the port or device is not in use, please cover the cover completely to achieve the waterproof and dustproof effect. (If the cover has a latch, please make sure it is locked.)

## **Battery**

The light symbol flashes red when charging is in progress. When charging is complete, the light illuminates red.

If the battery power is less than 10, the light flashes red (once per second). If the protection function against high temperatures is abnormal, the light flashes red quickly (once every half a second). In this case, please send the tablet PC in for repair.

## **Connecting the power supply unit**

Plug the DC cable of the power supply unit into the mains socket of the robust tablet.

Note: Only use the power adapter supplied with this product. Using other power adapters may damage your computer.

The appliance must be connected to the mains when it is switched on without power.



## Battery use

Try to use up the battery completely before charging it and charge it fully immediately. This will prevent damage to the battery.

Batteries are consumables and the following circumstances will shorten their service life.

Frequent charging of the battery

Use, charging or storage of batteries in hot environments

In order not to accelerate the ageing of the battery and to extend its service life, the number of charging processes should be minimized to avoid a frequent increase in the internal temperature.

Charge the battery within a temperature range of 10°C ~ 30°C (50°F ~ 86°F). Higher ambient temperatures can cause the temperature of the battery to rise. Avoid charging the battery in a closed vehicle and in hot weather. In addition, the charging process will not start if the battery is not within the permissible temperature range.

It is recommended not to charge the battery several times a day and not to charge the battery when the device is switched off.

If you use the battery at low temperatures, the operating time may be reduced and the power display may be incorrect. This phenomenon is due to the chemical properties of the battery. It is recommended to keep the correct operating temperature of the battery between -10 °C and 50 °C (14 °F and 122 °F).

Do not store the device for longer than six months without charging it.

## Power supply unit

As your rugged tablet is powered by direct current, but the power sockets usually supply alternating current, the mains adapter is used to convert the alternating current from the power source into the direct current required by the computer. While the power adapter is connected, it also automatically charges the battery. The adapter can be used in a voltage range of

100 to 240 V alternating current

The mains adapter is only intended for use with this tablet. Any other use may damage the connected device or the adapter.

The mains cable supplied with the power supply unit corresponds to the specifications of the place of purchase. If you wish to use this flat screen abroad, please contact your dealer to obtain a suitable mains cable.

If you want to unplug the power adapter from the socket, you must first unplug the power plug from the socket and then unplug the power plug from the computer, otherwise the flat screen and the power adapter will be damaged by an external voltage surge. When unplugging, do not pull on the cable, but hold the plug with your hand to pull it out.

## Charge indicator/charging the battery

The battery indicator (  ) on the Rugged tablet lights up red

and flashes, indicating that charging is in progress. It is recommended to charge the rugged tablet when it is switched off. When the battery is fully charged, the indicator lights up red and stops flashing.

The full charging time is approx. 5 hours when the tablet is switched off or 6 hours when the tablet is switched on (may take longer in cold temperatures).

The recharging temperature of the battery is between 0 °C (32 °F) and 50 °C (122 °F). If the battery temperature is outside this range, the charging process will not start. Charging starts automatically when the battery temperature meets the conditions.

Do not unplug the mains adapter from the socket during the charging process if the battery is not yet fully charged, otherwise it will be undercharged.

The battery's high-temperature protection mechanism limits the maximum battery charge at high temperatures to 80% of the total capacity. At high temperatures, charging 80% corresponds to a fully charged battery.

When the battery is full, do not immediately pull out the plug and connect the mains adapter, otherwise the battery may be damaged.

## Insert SIM card or TF card

Remove the rubber plug of the SIM and TF card and insert the Micro SIM card (size 12\*15mm) into the SIM card slot as shown in the figure (the SIM card slot is located above the TF card slot) Note: The metal side of the SIM card is in the same direction as the bottom side of the housing, and the missing corner of the SIM card faces outwards.

Remove the rubber stopper from the SIM and TF card and insert the microSD card



into the TF card slot as shown in the illustration (the SIM card slot is located above the TF card slot) Note: The metal side of the TF card faces the display.

## HD interface

If you want to use a larger screen and a higher resolution, you can connect an external monitor to the HDMI micro port on your rugged tablet.

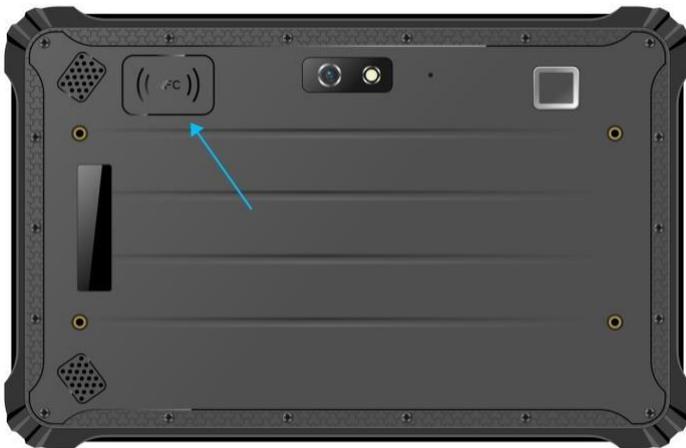
HDMI (High-Definition Multimedia Interface) is a high-resolution audio/video interface that transmits uncompressed digital data in a high-resolution format.



## **NFC reader**

If your model has an NFC/RFID reader module, you can use it to read NFC (Near Field Communication) and RFID (Radio Frequency Identification).

(Radio Frequency Identification) Data of the electronic roll label. (depending on model)



# Operation

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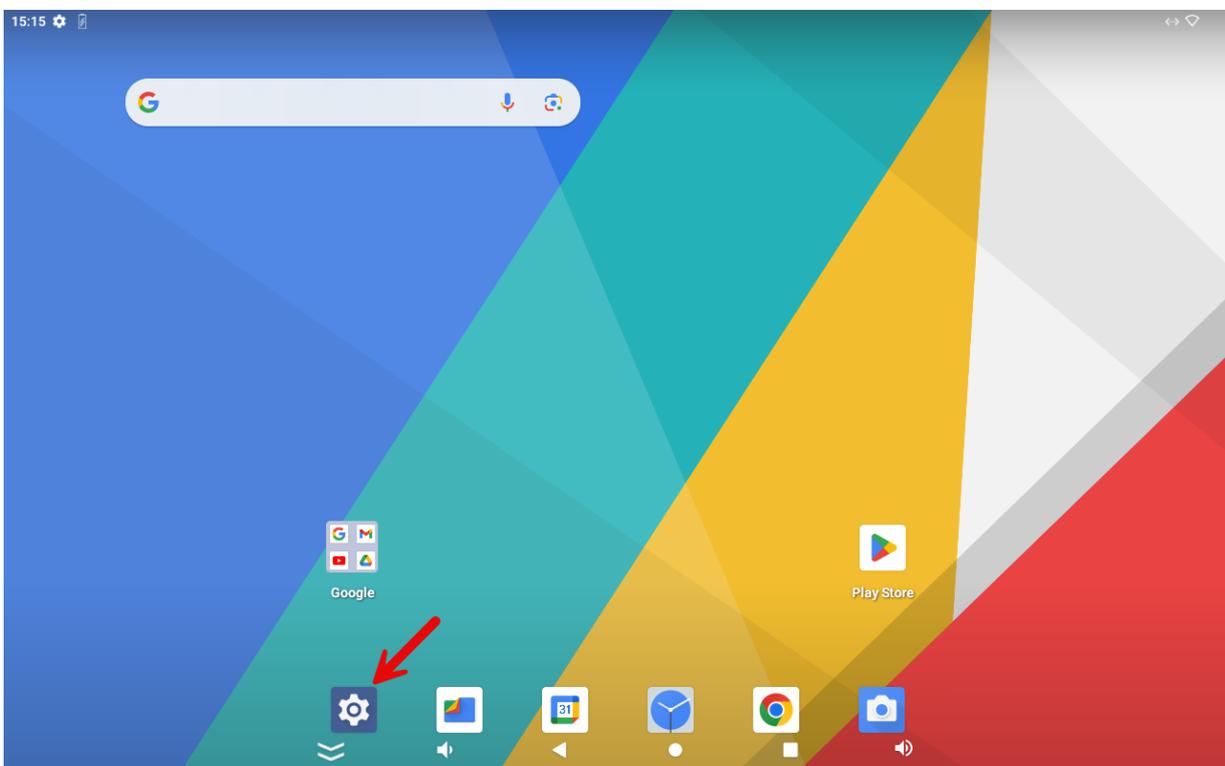
**This is a guide for Android in general and for special functions of ALLNET displays. The display is a certified Google device.**

Switch on the tablet. The tablet starts automatically.

## Switching off the touch power button on the front

You can deactivate the Power Touch Button in the software. To do this, please go to the settings and select General Settings. The "Touch button enable" item deactivates or activates the power button on the front.

This function is essential for installation in a wall as otherwise the tablet can only be switched on/off via the power supply. The physical switch on the back is always active.



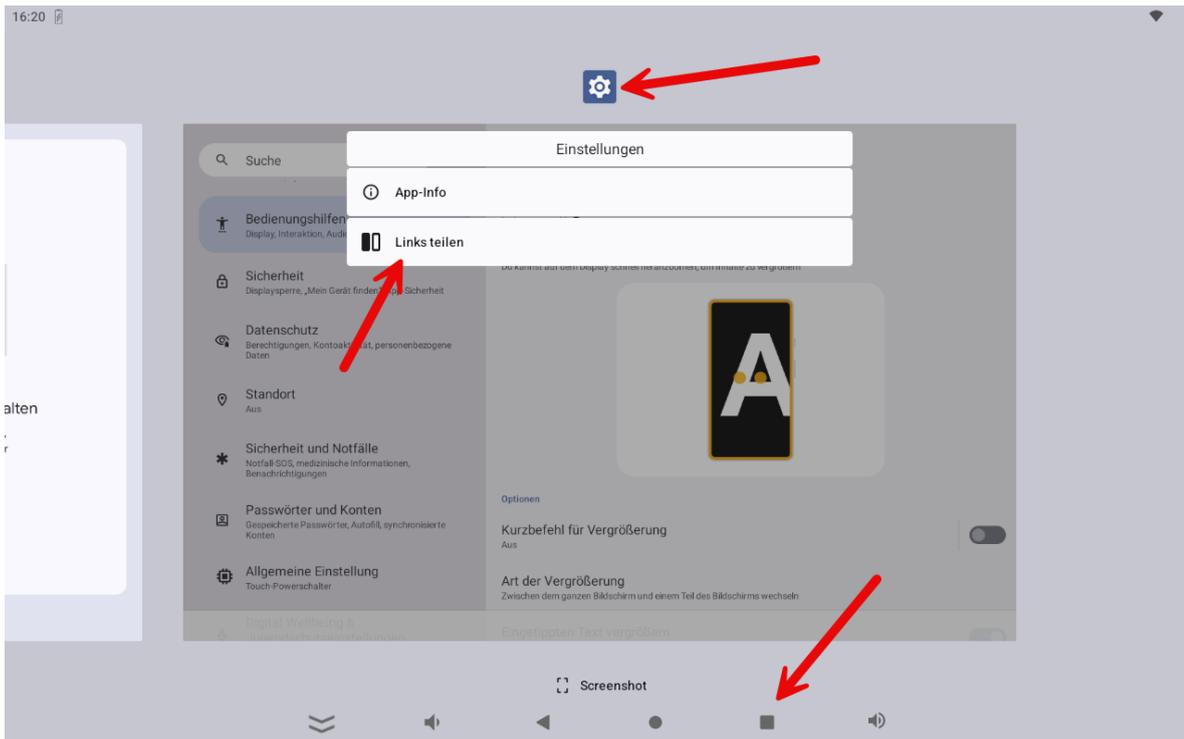
## Automatic start of an application

Unfortunately, this function is not available in the certified version. You will have to use an app from the Playstore. E.g. Auto Start.

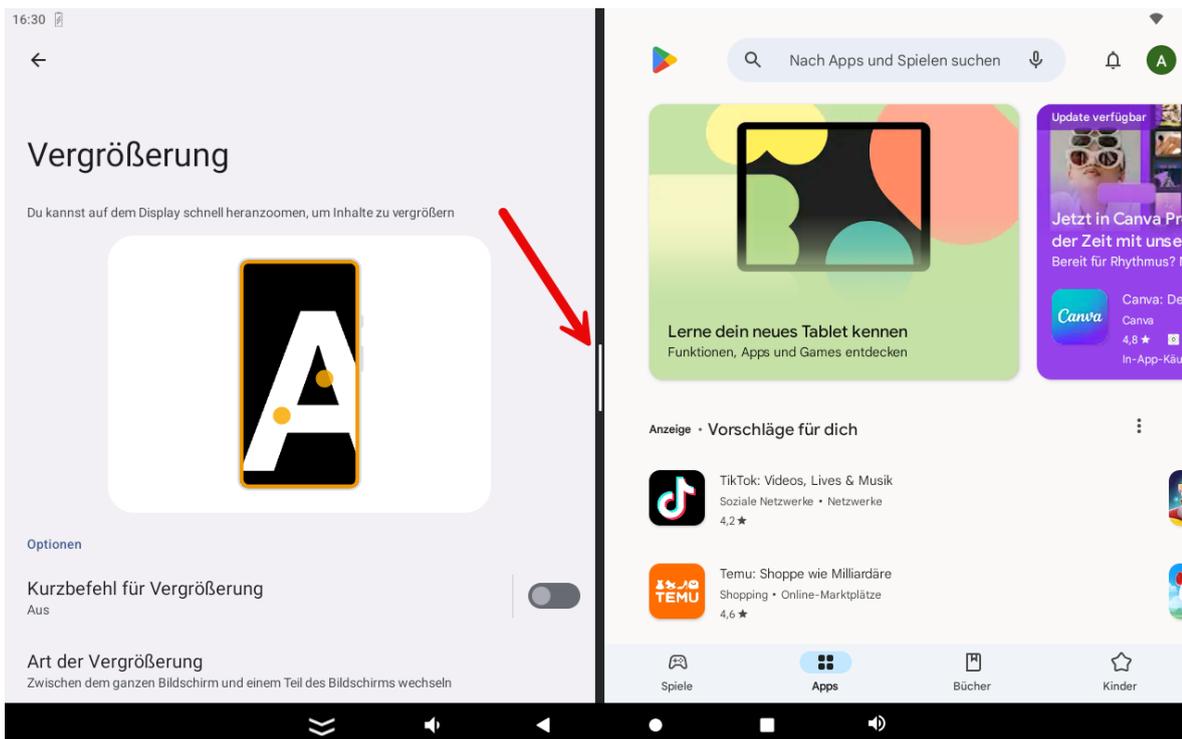
## Split screen or split screen

To display two apps next to each other at the same time, the apps must have been open for the first time. Then click on the square and on the symbol at the top center. Click on Split left.

Now select the second app to be shared on the screen.



The division ratio can now be changed.

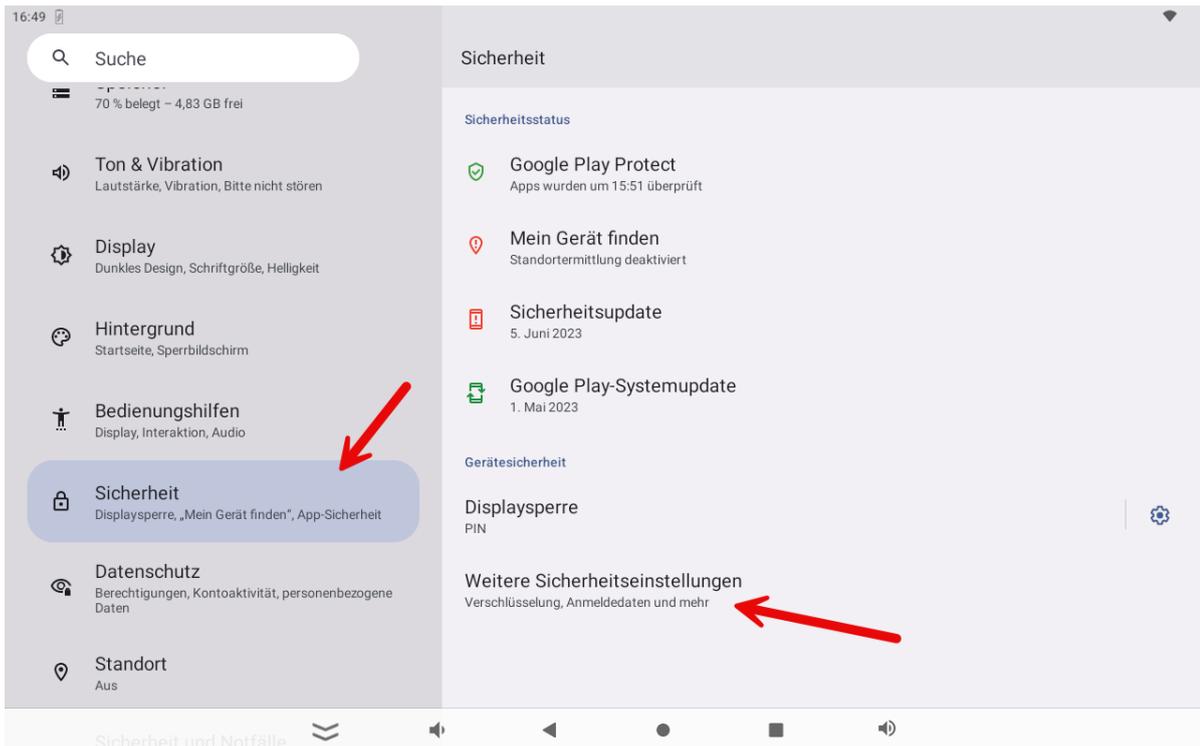


Please note that this arrangement will be lost after a restart.

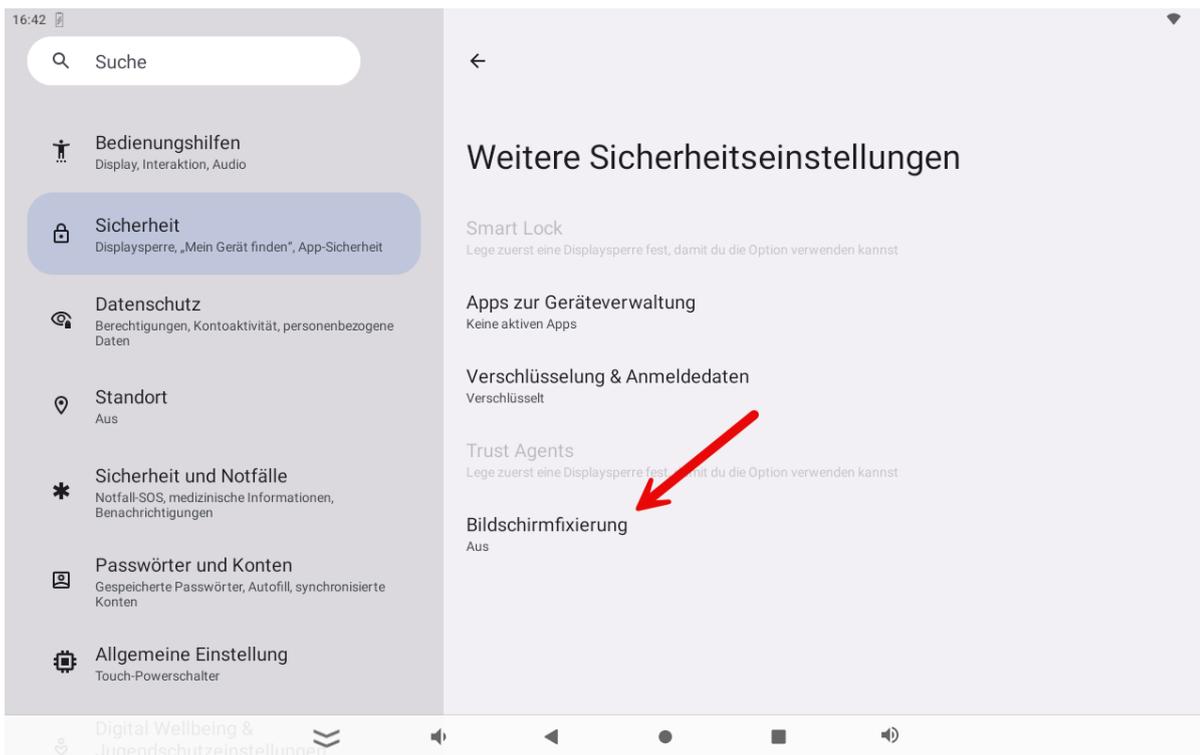
## Fixing an APP

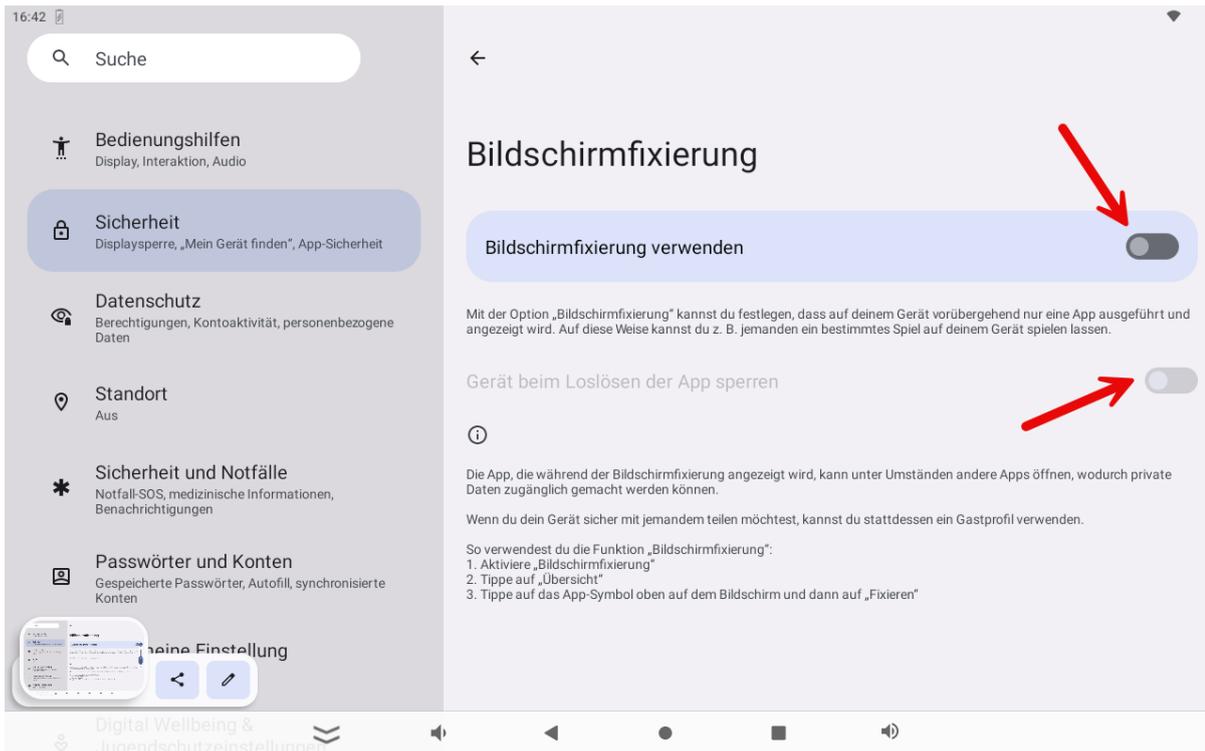
Please note:

The functionality is simple and is only a simple protection against unauthorized access. The app can still be closed using a key combination. You can find a professional kiosk APP in the Playstore under "FullyKiosk Browser".

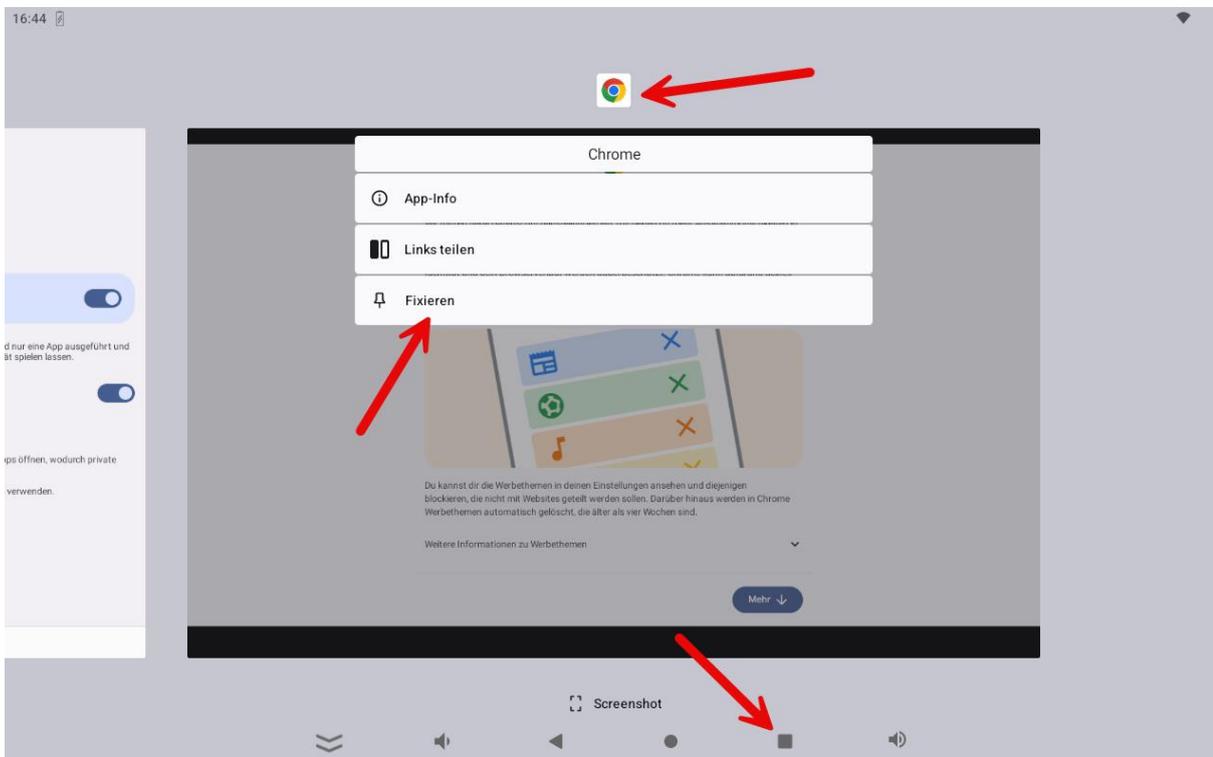


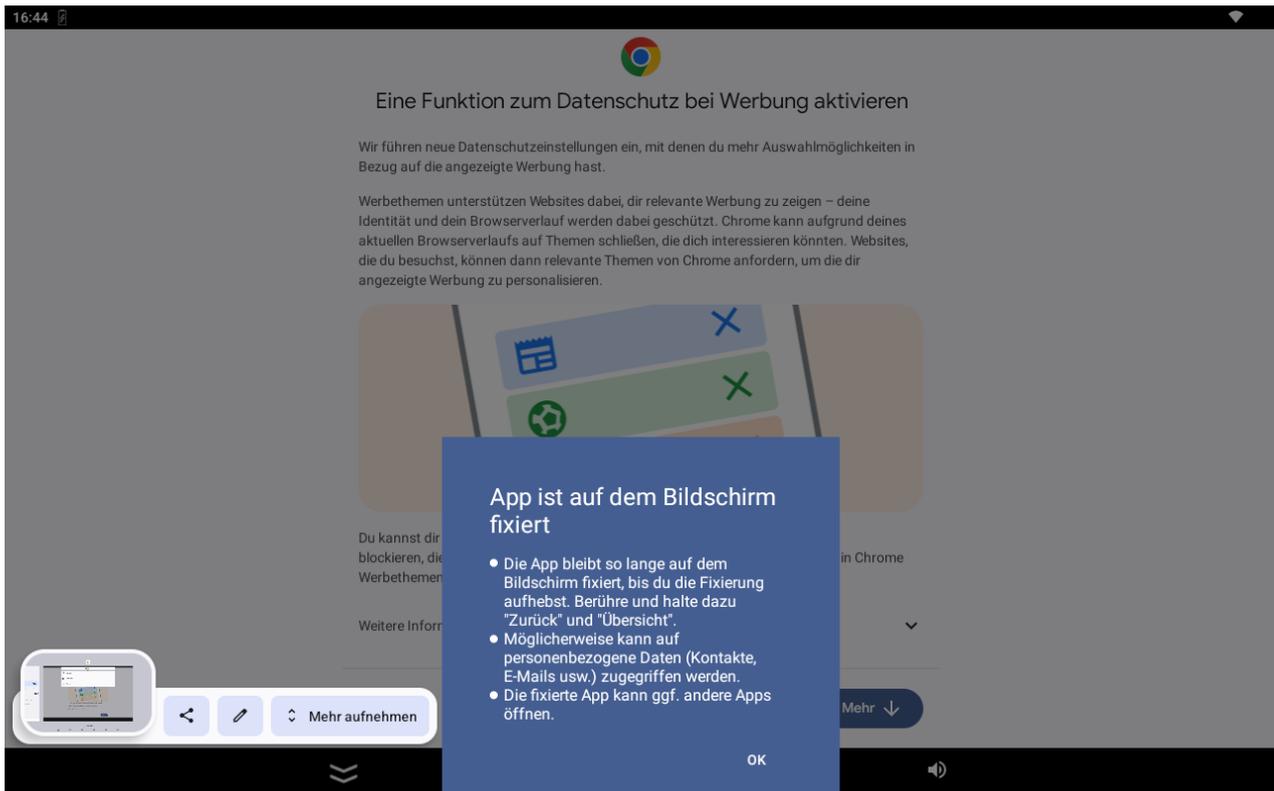
There, please go to the item "Further security settings" and click on Screen fixation.





As an option, you can also install a security feature that locks the tablet when the app is closed. To activate the screen lock, click on the square in the navigation bar, where you will find the most recently opened apps. Click on the middle icon at the top.



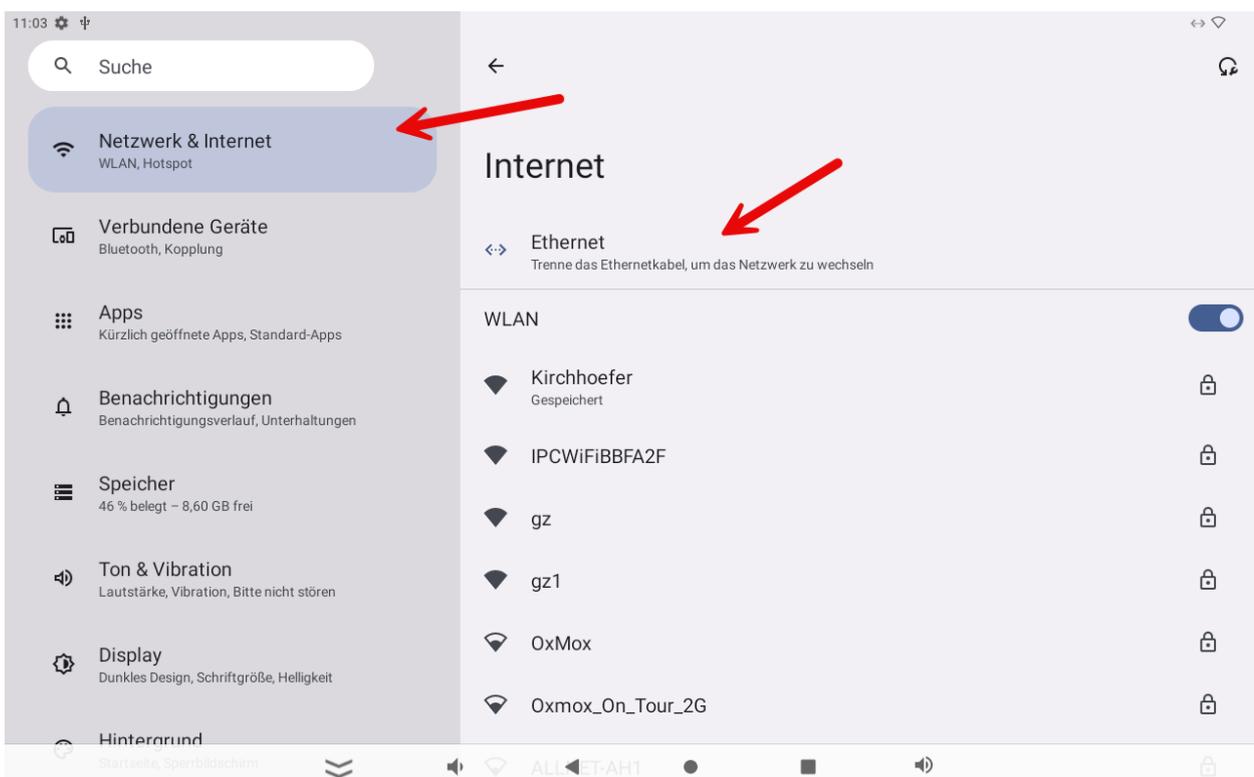


This screen fixation is no longer active after a restart and the fixation procedure must be carried out again.

## Ethernet setup

Open the "Settings"

Select "Network & Internet", then click on "More"

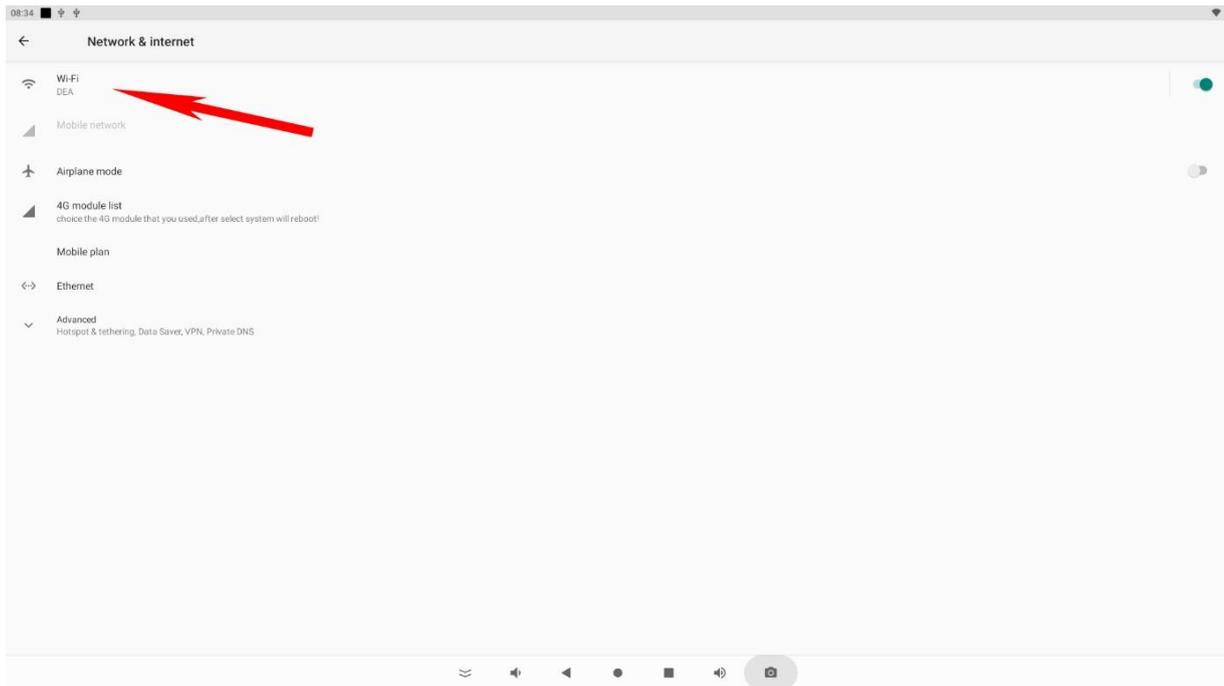


Ethernet is automatically activated as soon as a network cable with a network connection is connected. The Ethernet connection is preferred over a WLAN connection.

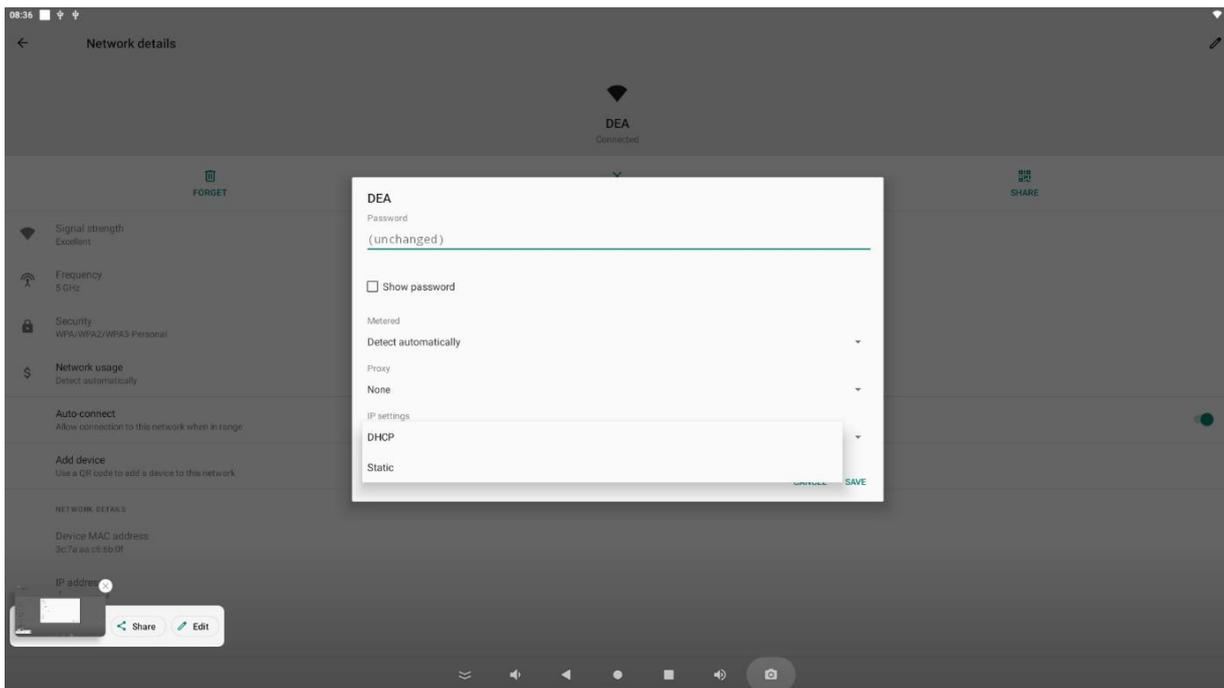
## W-LAN setup

Open the "Settings" app

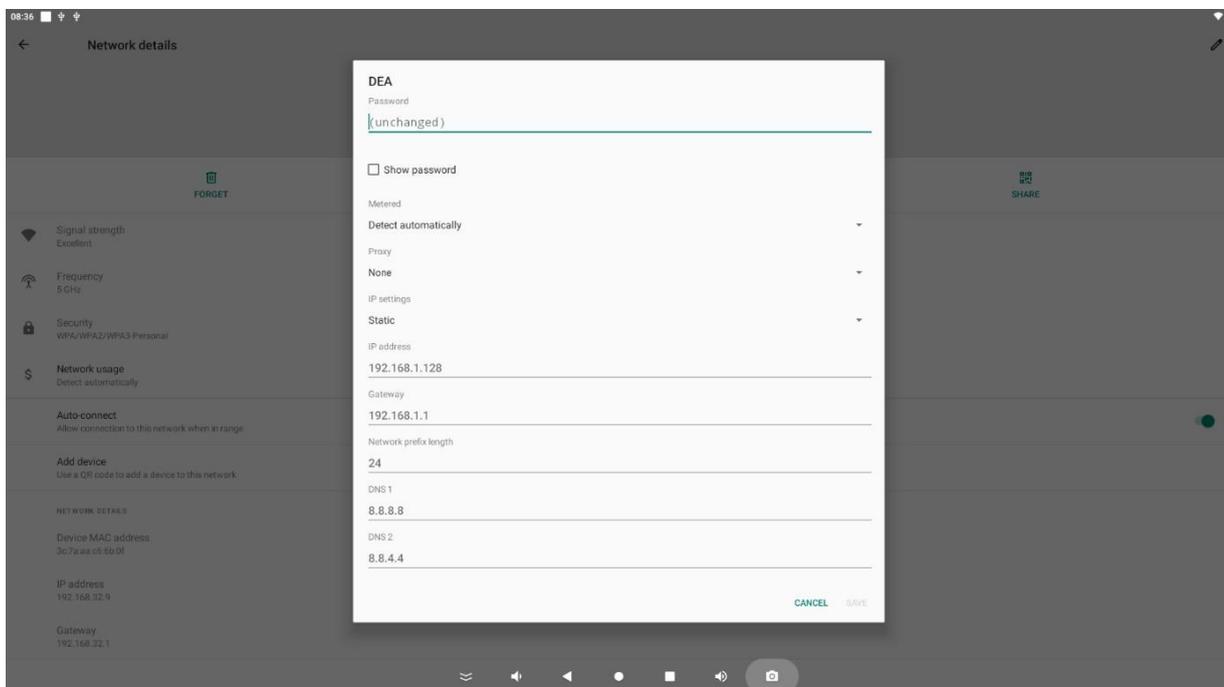
Select "Wireless & Network", then click on Wi-Fi and activate the switch



Select the desired WLAN network and enter the password if necessary. Once the connection has been successfully established, the tablet automatically connects to the network if it is within range.



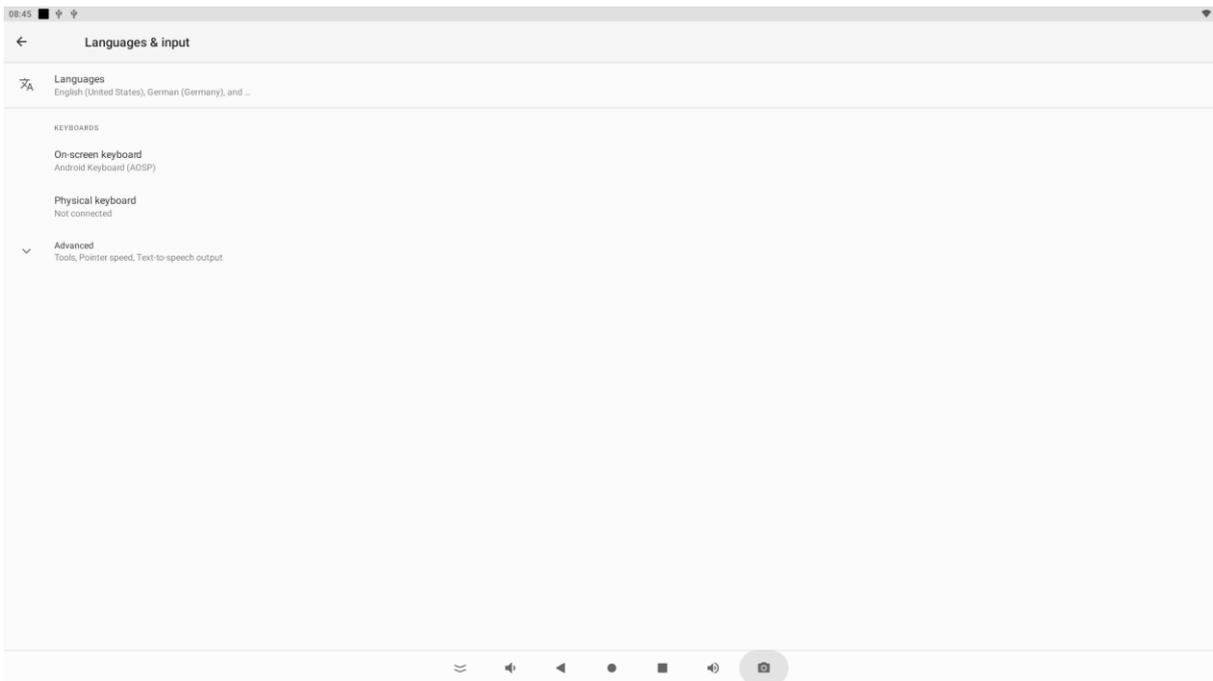
You can set up a static network connection under IP setting. By clicking on "static" you can set up the IP address, gateway and DNS server.

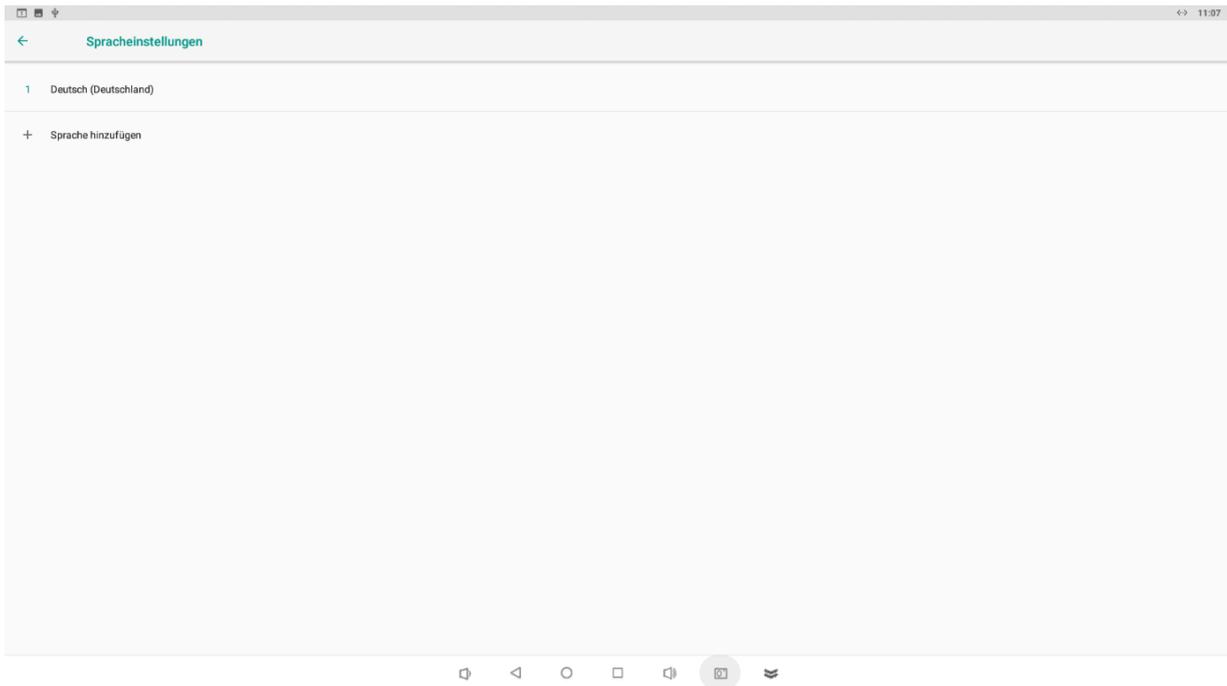


### Settings Change language

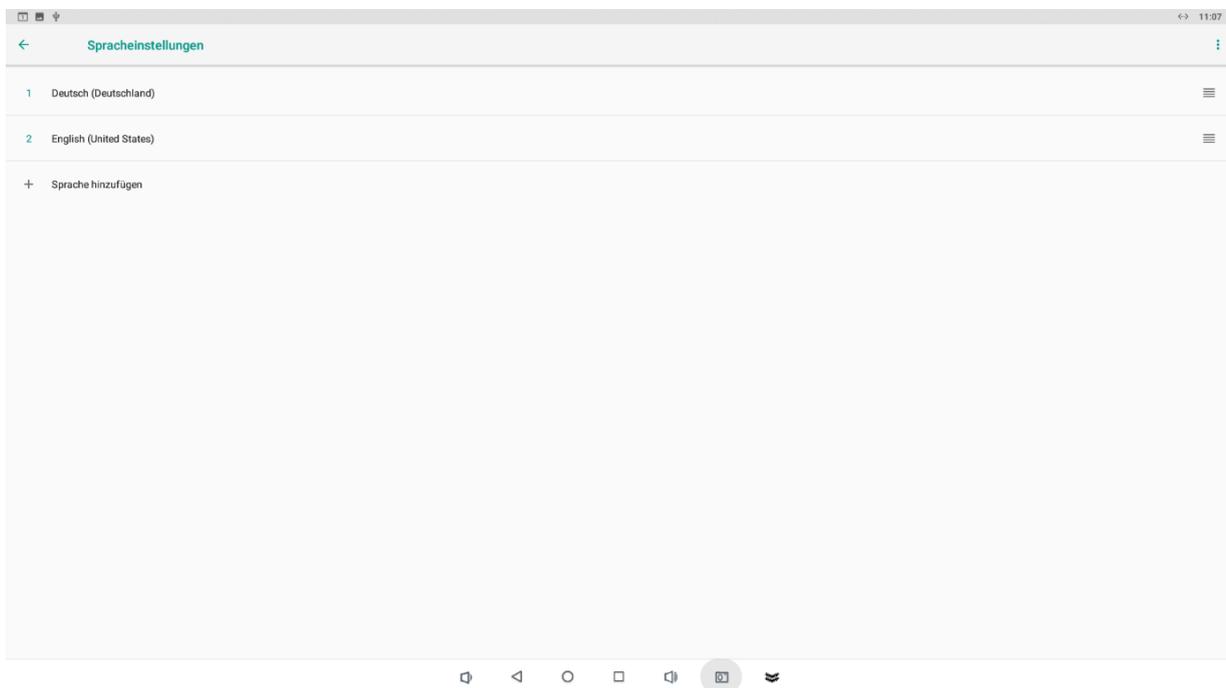
Open the "Settings" app

Under "System", select "Language & input", then click on Language and select the desired language.





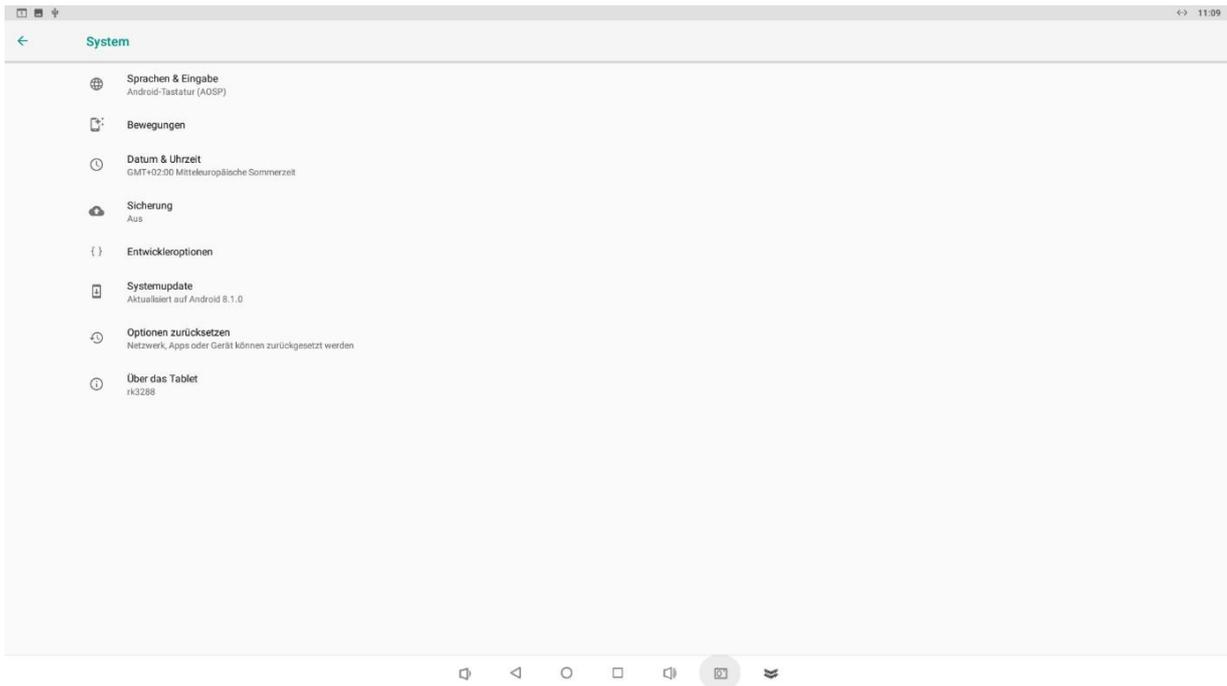
Activate the language by dragging the language upwards on the right-hand edge.



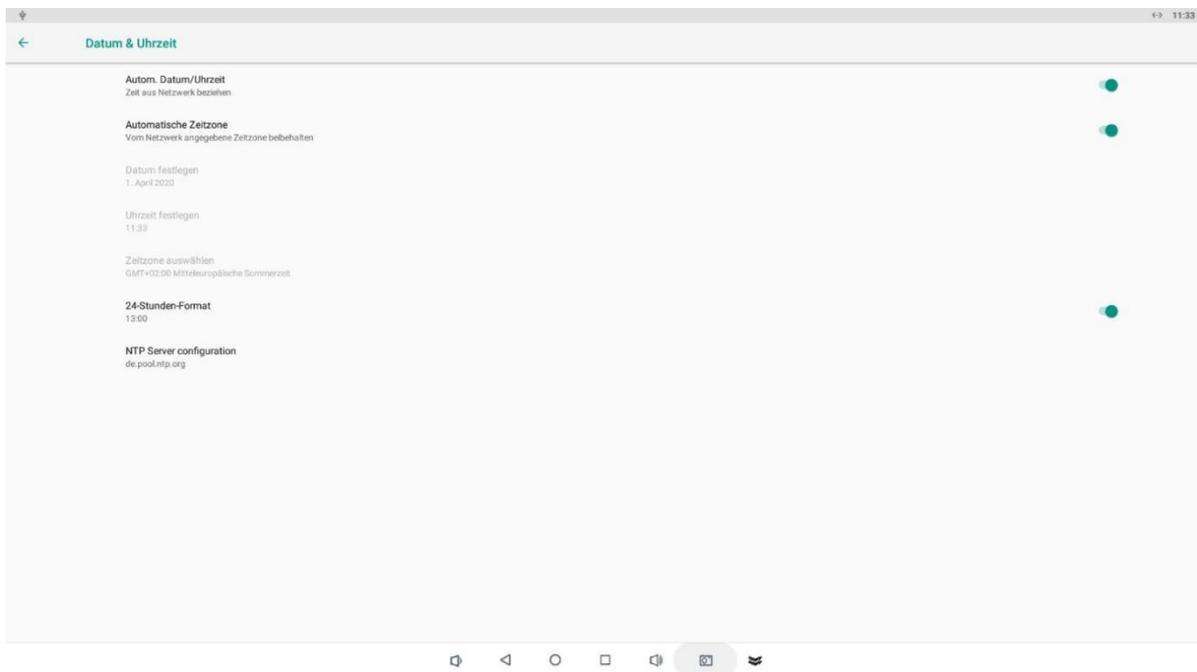
Change time zone, date and time settings

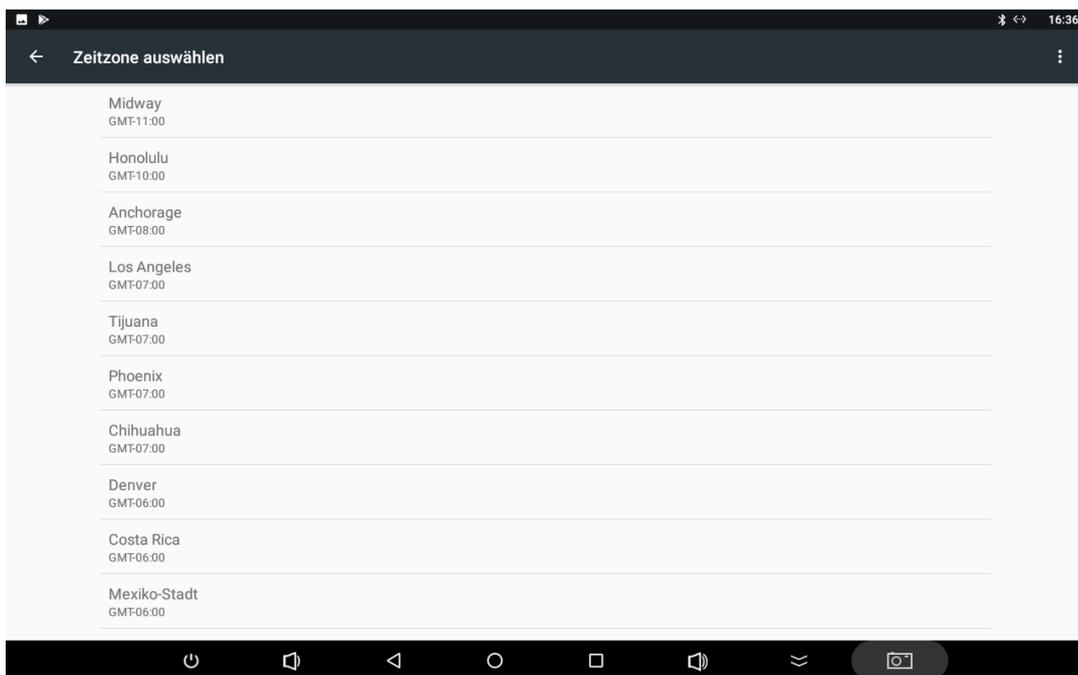
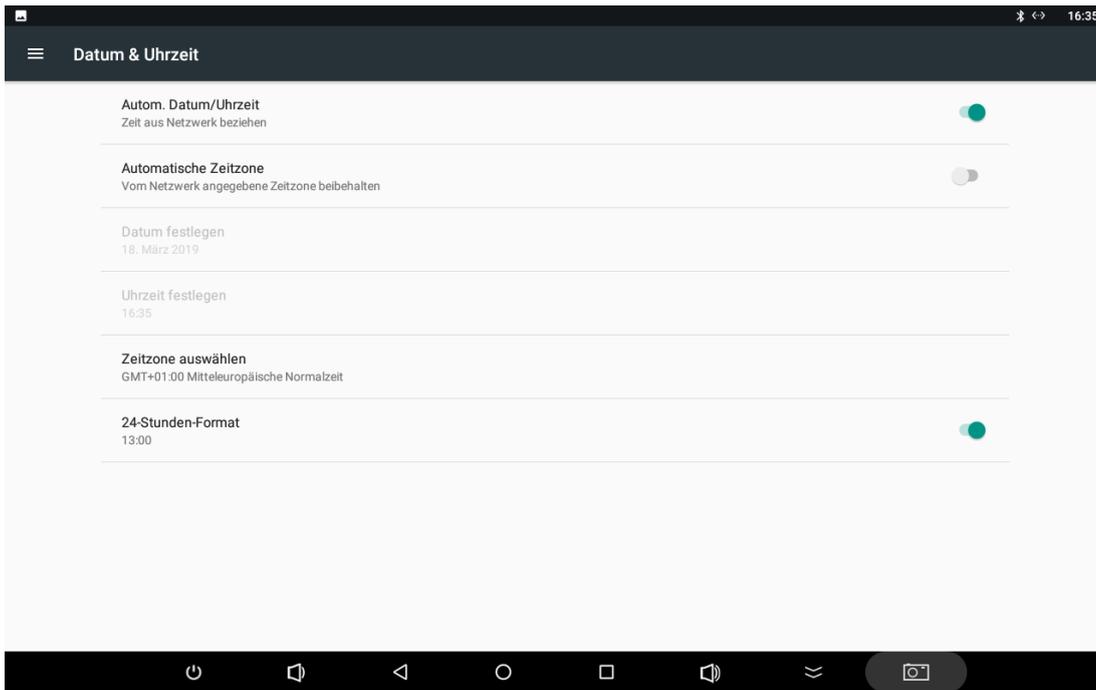
Open the "Settings" app and select "System".

Select the "Date and time" menu item from the "System" menu item.



You can either obtain the appropriate time zone automatically via the network or change it manually via the "Select time zone" item.



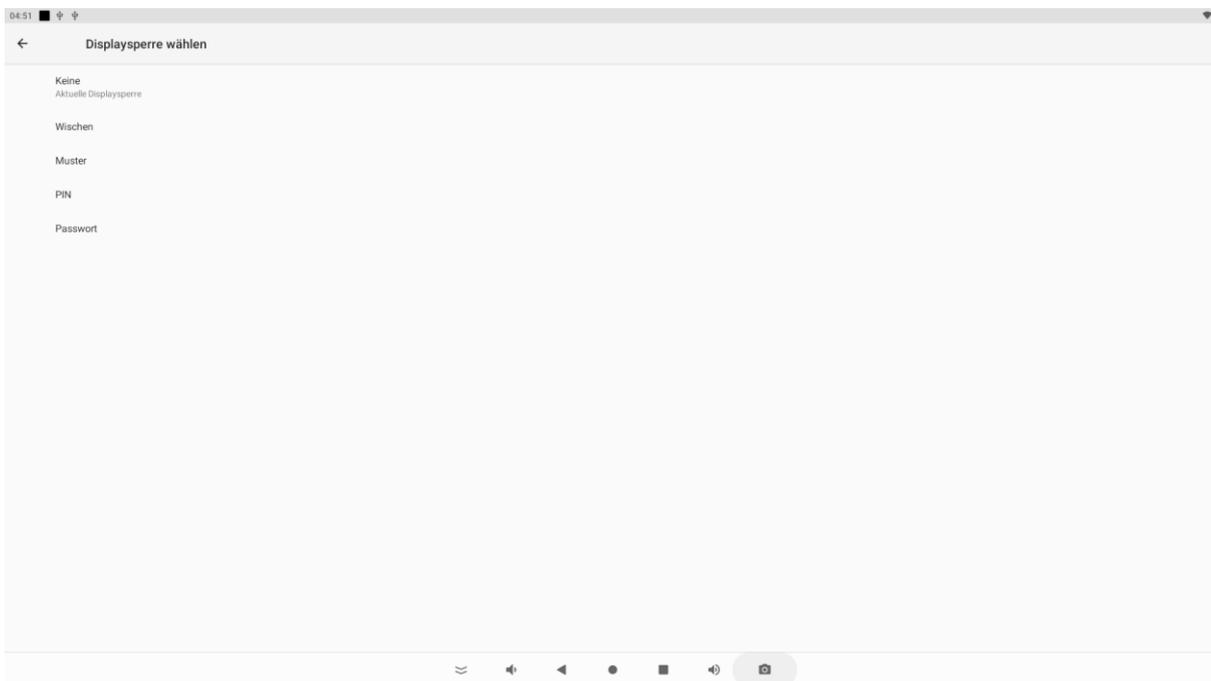


## Display lock settings

Open the "Settings" app and then the "Security" item.



You can then assign a PIN to unlock the tablet under "Device security/display lock".



## Change volume setting

Open the "Settings" app

Select the "Sounds" menu item from the "Device" menu item. Here you can set the volume for media playback, alarm clock and notifications.

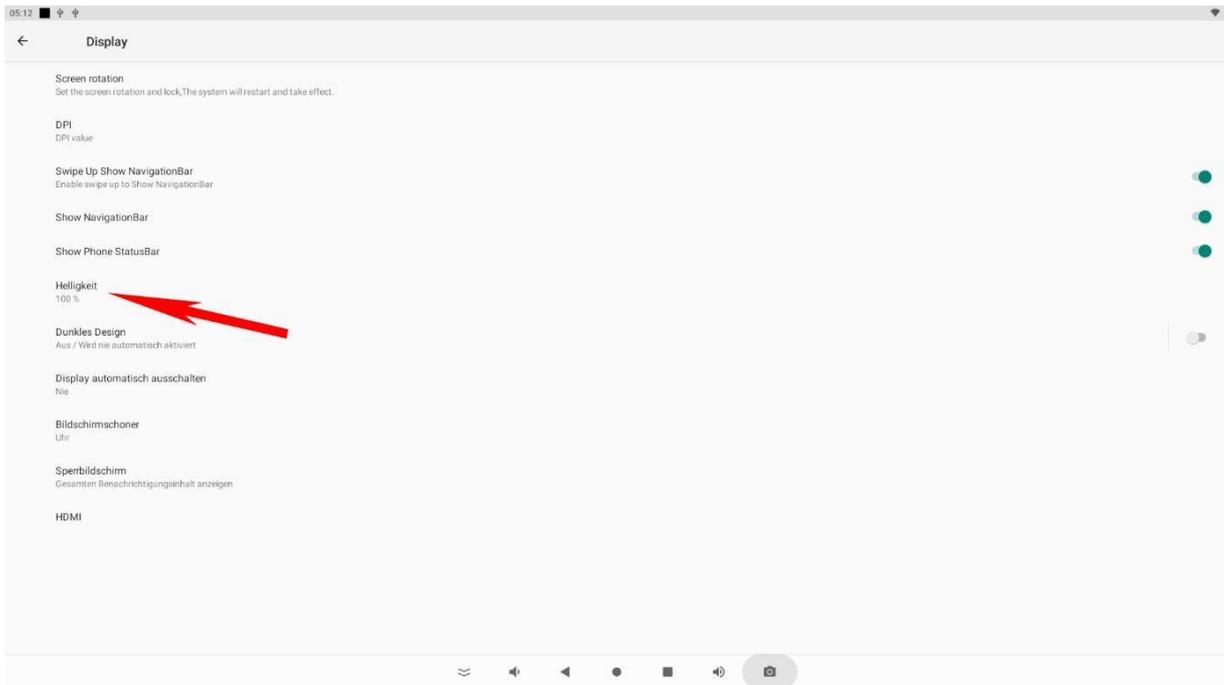


## Display settings

Open the "Settings" app

Select "Display", then click on Brightness level, now you can adjust the brightness continuously. In addition to the brightness, you can also change the background or select a screen saver.

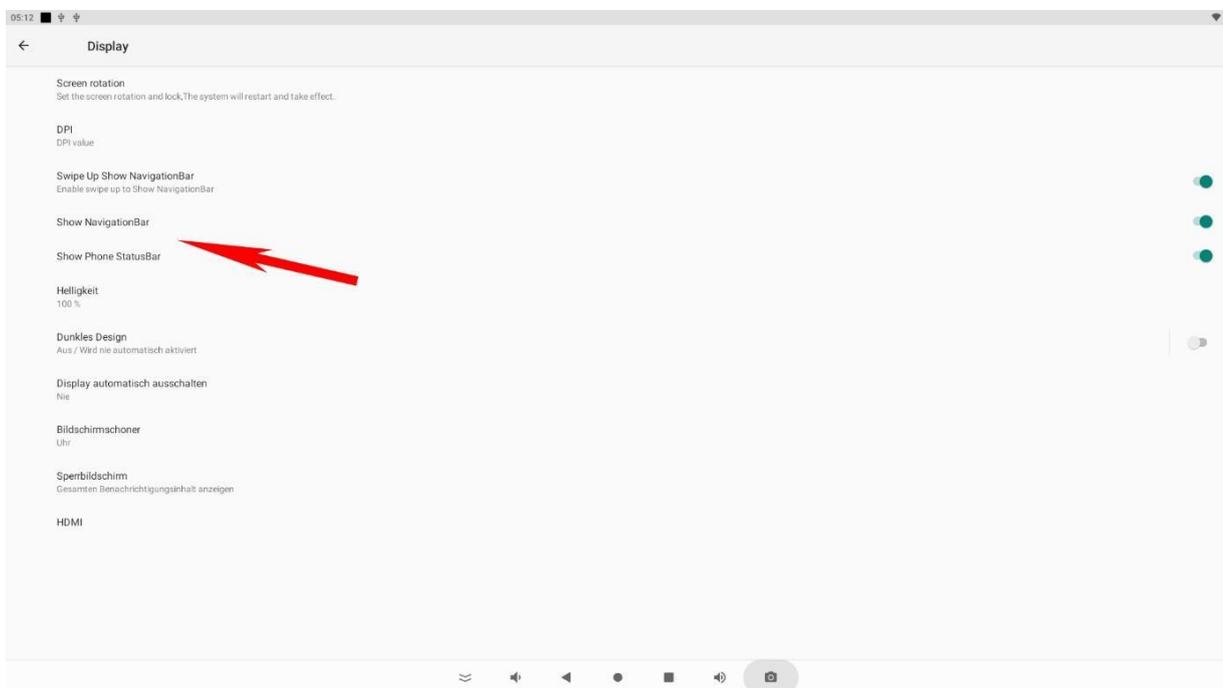




## Hide navigation bar/status bar

Open the "Settings" app

Select "Display", then switch off "Show Navigation Bar/ or Phone Status Bar".

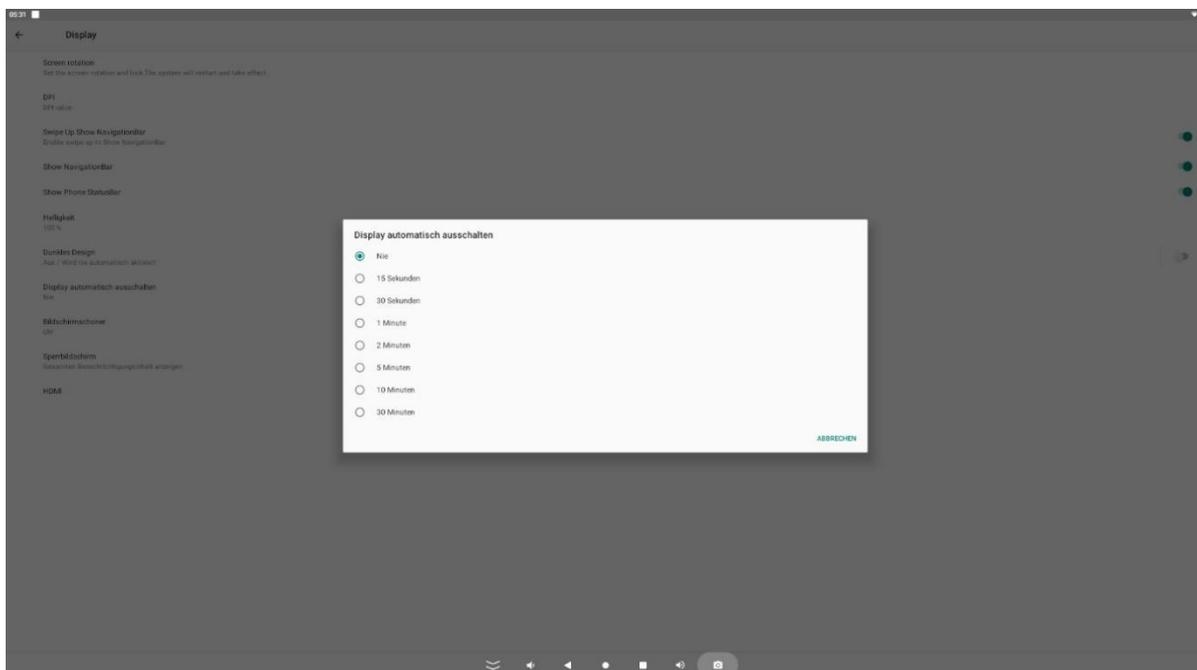
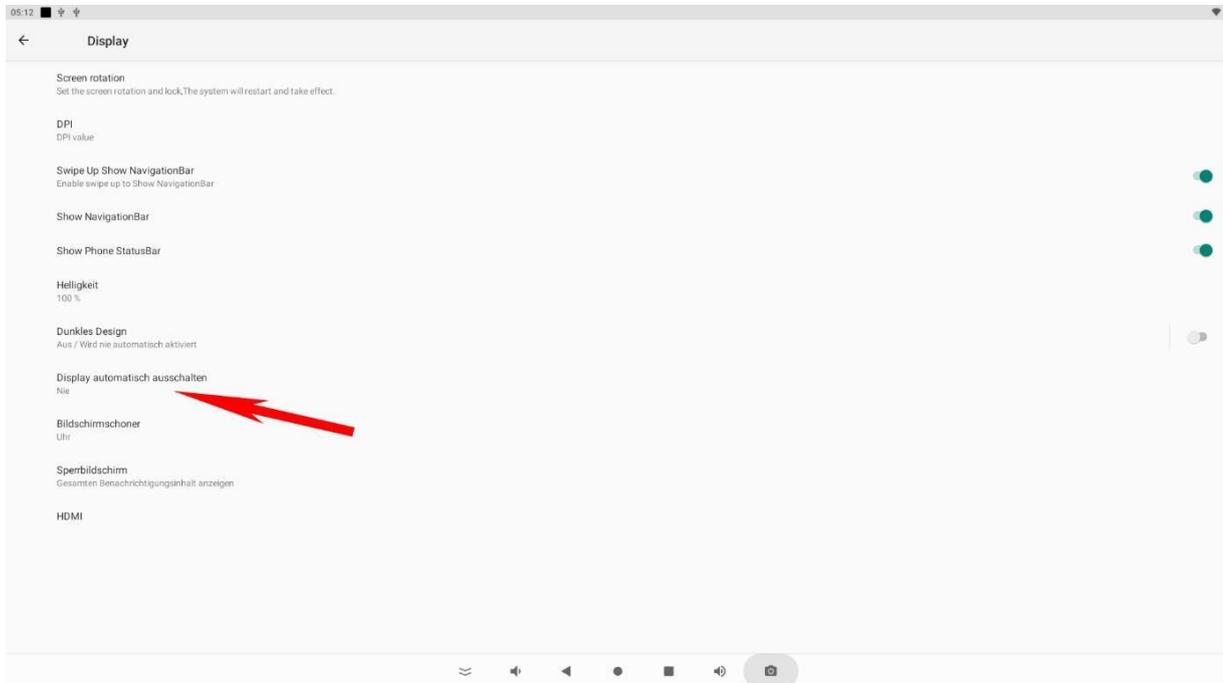


You can also operate the tablet with a mouse and keyboard. The left button is the "Mouse click", the right mouse button is the "Back" button

## Settings "Switch display off automatically"

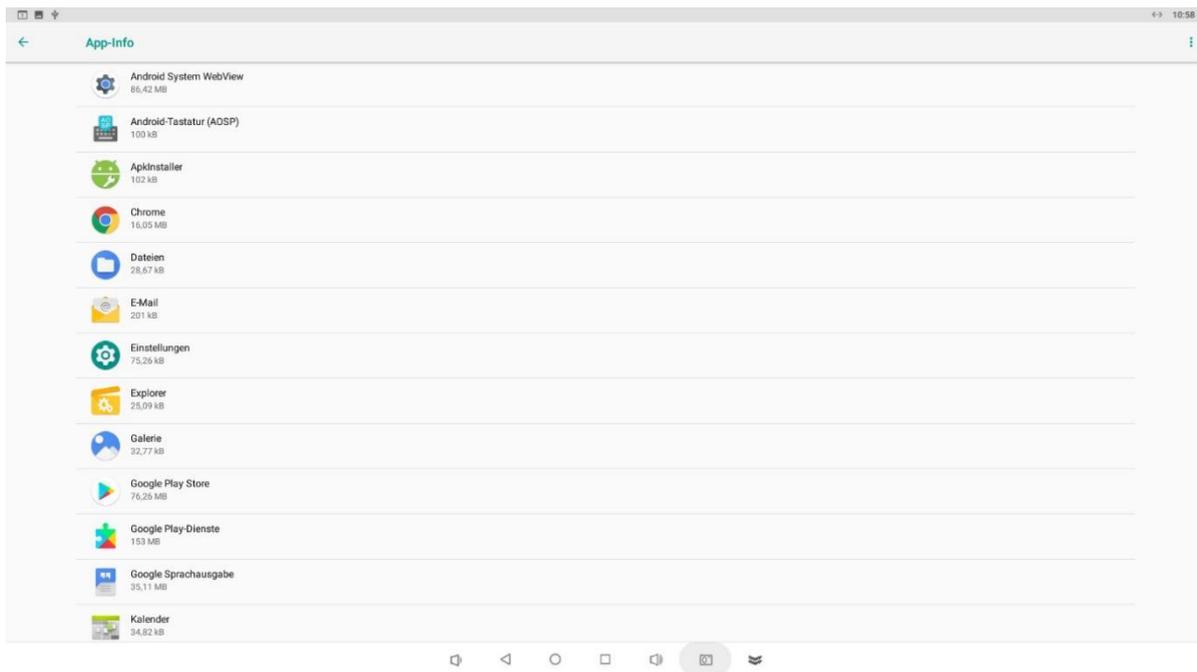
Open the "Settings" app

Select "Display", then click on Advanced/Hibernate, now you can set the display switch-off time. By activating the "Never" menu item, the screen remains active until the tablet is switched off.



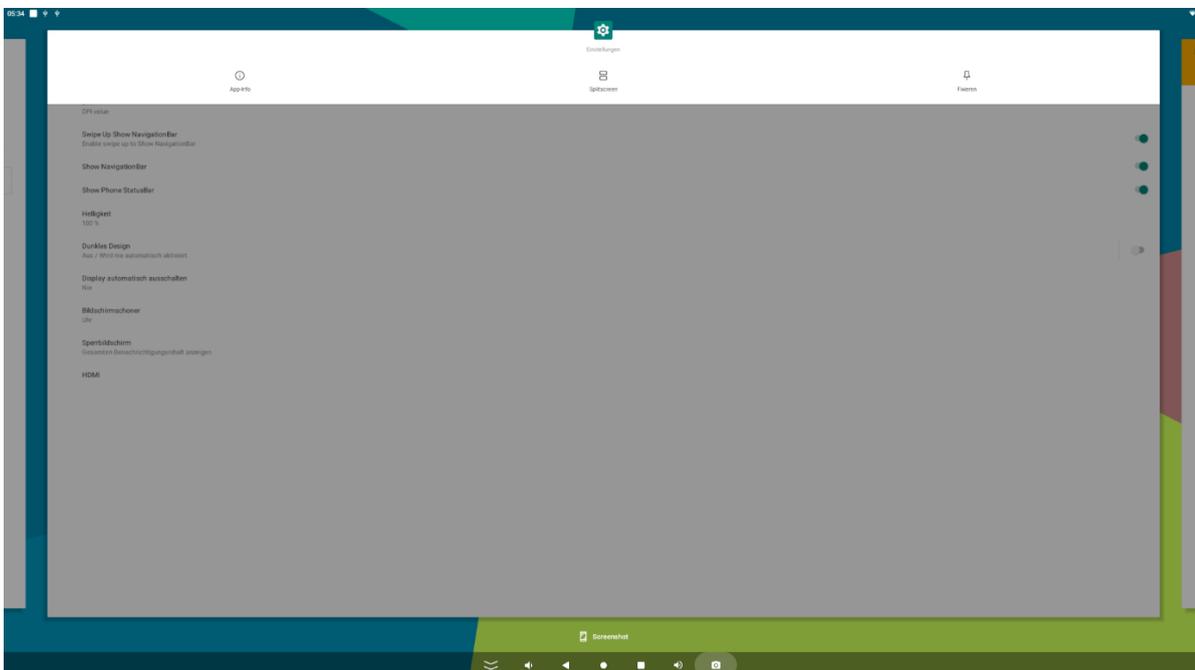
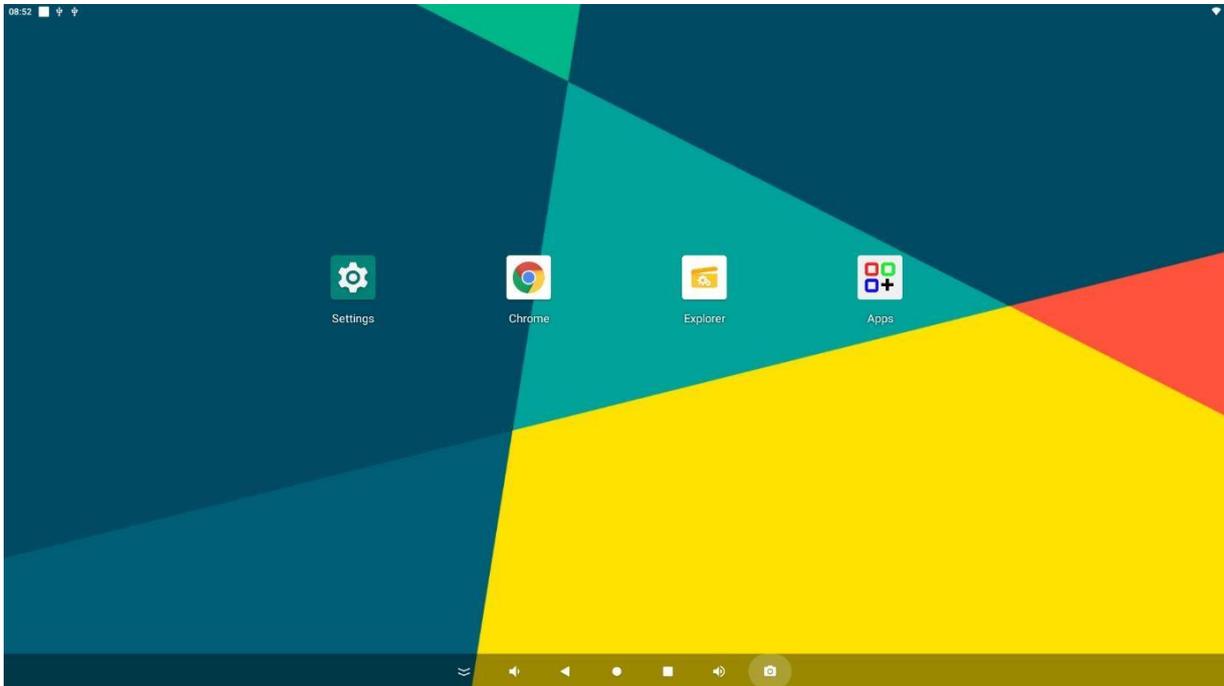
## Connection to the Google Play Store

Open the Play Store app and log in with your Google account details to install the apps you want. If you do not yet have an account, you can create a new account directly via the app. If you have a problem starting the Play Store, a component (Google SystemWebView.apk) of the Google framework is out of date and needs to be updated. To do this, the Chrome browser must be deactivated under Settings/Apps so that SystemWebView.apk is visible. The tablet should update this automatically after some time, so leave it switched on and connected to the Internet. This app can also be downloaded from external download sites such as APK Mirror. Please note that downloading from external sites can be risky. We assume no liability for this!



## Exit app

Click on the rectangular icon in the bottom navigation bar. You will then be shown all active apps, which you can then close as required.



## Split screen function:

This function is available to display two apps at the same time.

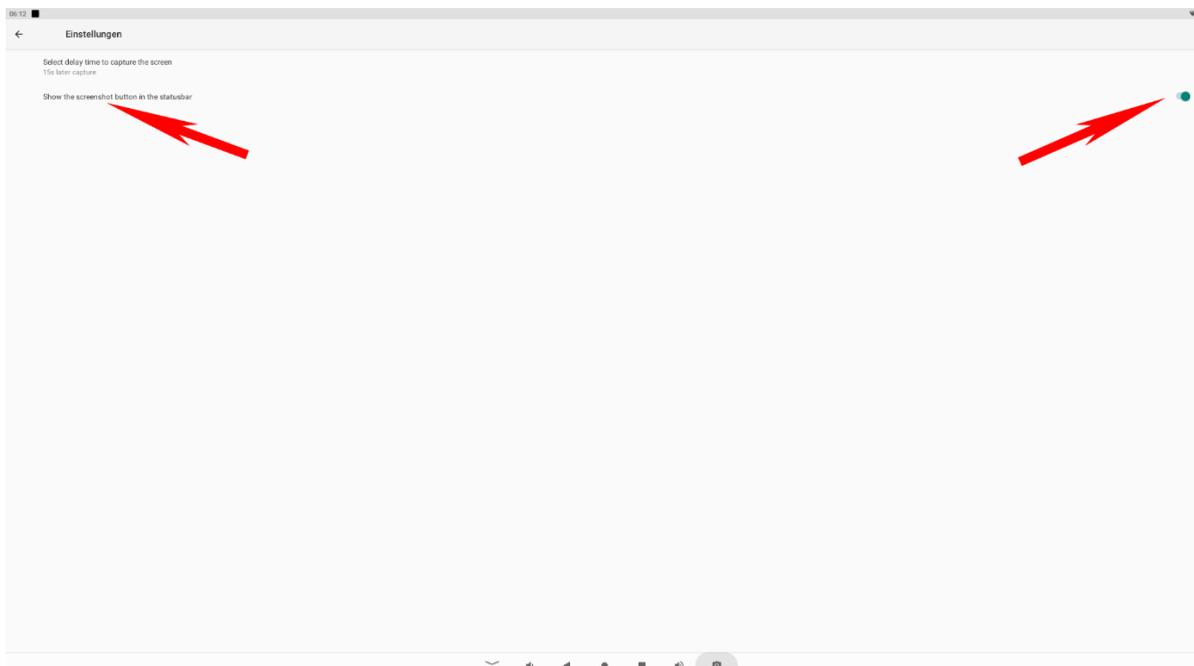
Click on the rectangular icon in the bottom navigation bar. All active apps will then be displayed. Click on the top logo in the middle of the app you want to use. A menu will open. Click on Split screen and select the second app by clicking on it. These must be opened beforehand so that you can select them.

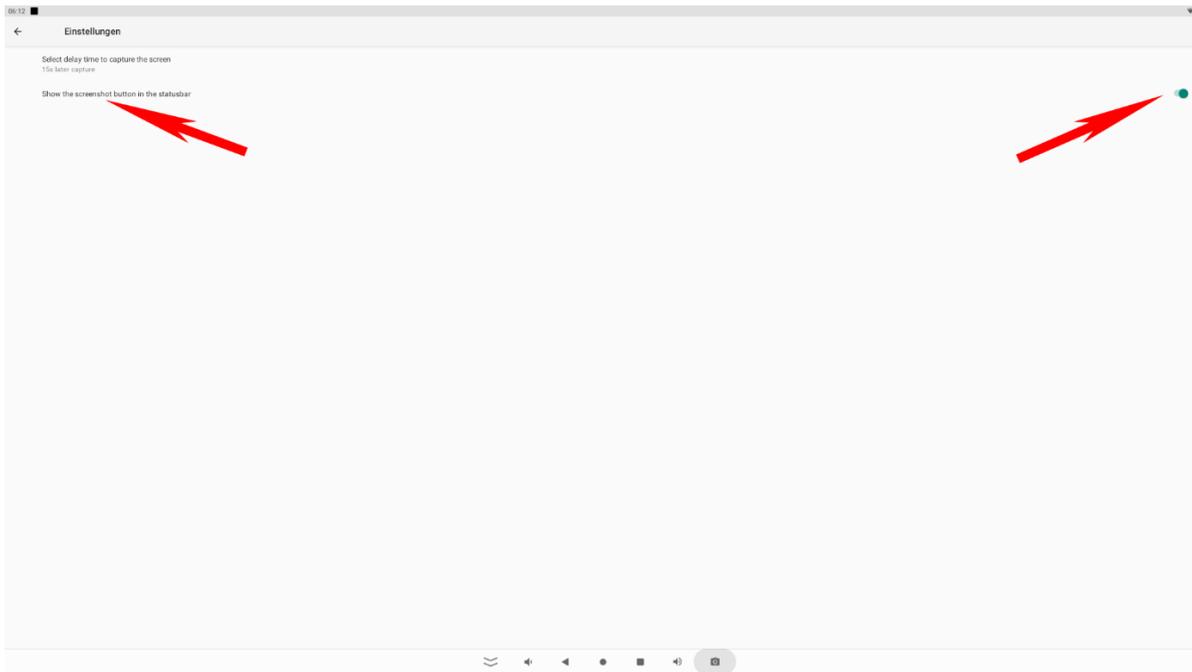
## Create screenshot

Under Settings you will find the item "Screenshot". Click to open a settings window.



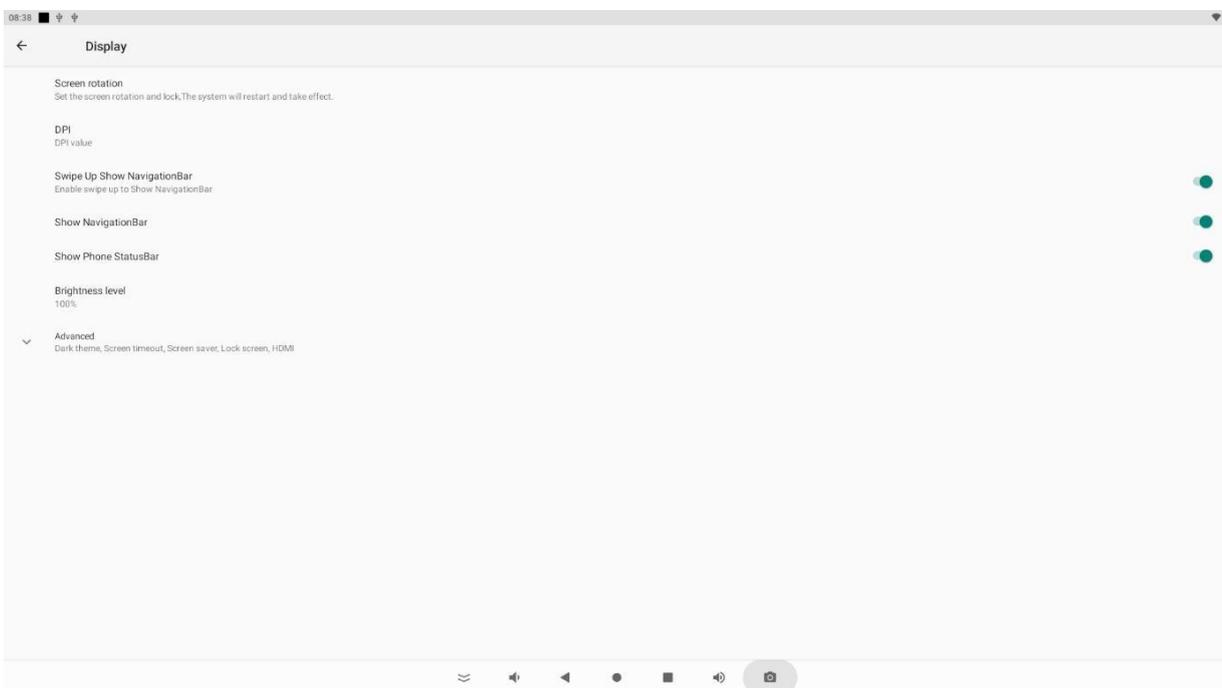
You can activate the function in the navigation bar here.



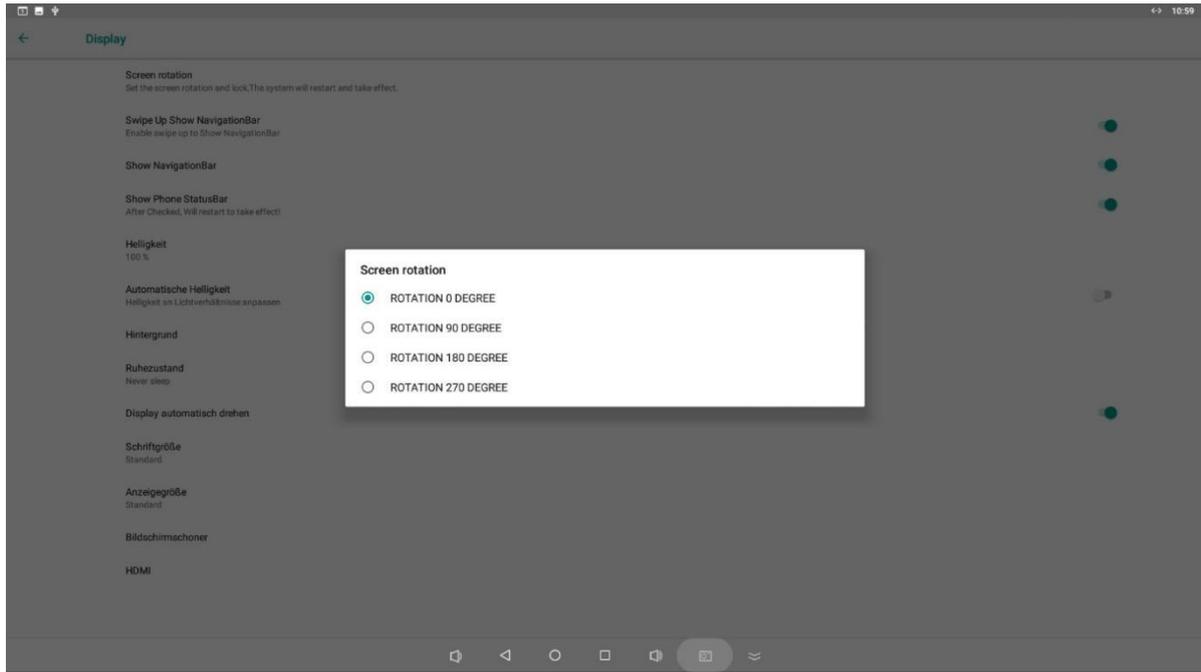


## Display rotation

The display can be used horizontally and vertically. To do this, please go to the Display/Screen rotation settings.



Select the degree of rotation in the pop-up. The tablet will now restart in the set mode.



### MDM Mobile Device Management:

The Google-certified displays can be controlled with MDM software.

To do this, you must tap a free space in the wizard 6 times in succession.

The camera opens to scan the MDM code.

This can also be entered manually in the event of an incorrect entry.



## CE Declaration of Conformity

For the following equipment:

Germering, December 08, 2023

### ALLNET X-Trail-100-Light Tablet



The safety advice in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device. This attestation of conformity is according to the provisions of EU ROHS Directive 2011/65/EU & (EU) 2015/863, it is confirmed the product has been tested and found in conformity with

below standards.

Requirement	Applied Standards
2011/65/EU & (EU) 2015/863	IEC 62321-3-1:2013 / IEC 62321-5:2013
	IEC 62321-4:2013+A1:2017
	IEC 62321-7-2:2017/ IEC 62321-6:2015
	IEC 62321-7-1:2015/ IEC 62321-8:2017

This equipment is intended to be operated in all countries.

This declaration is made by.

ALLNET GmbH Computer Systems

Maistraße 2

82110 Germering Germany

Germering, December 08. 2023

  
Wolfgang Marcus Bauer  
CEO