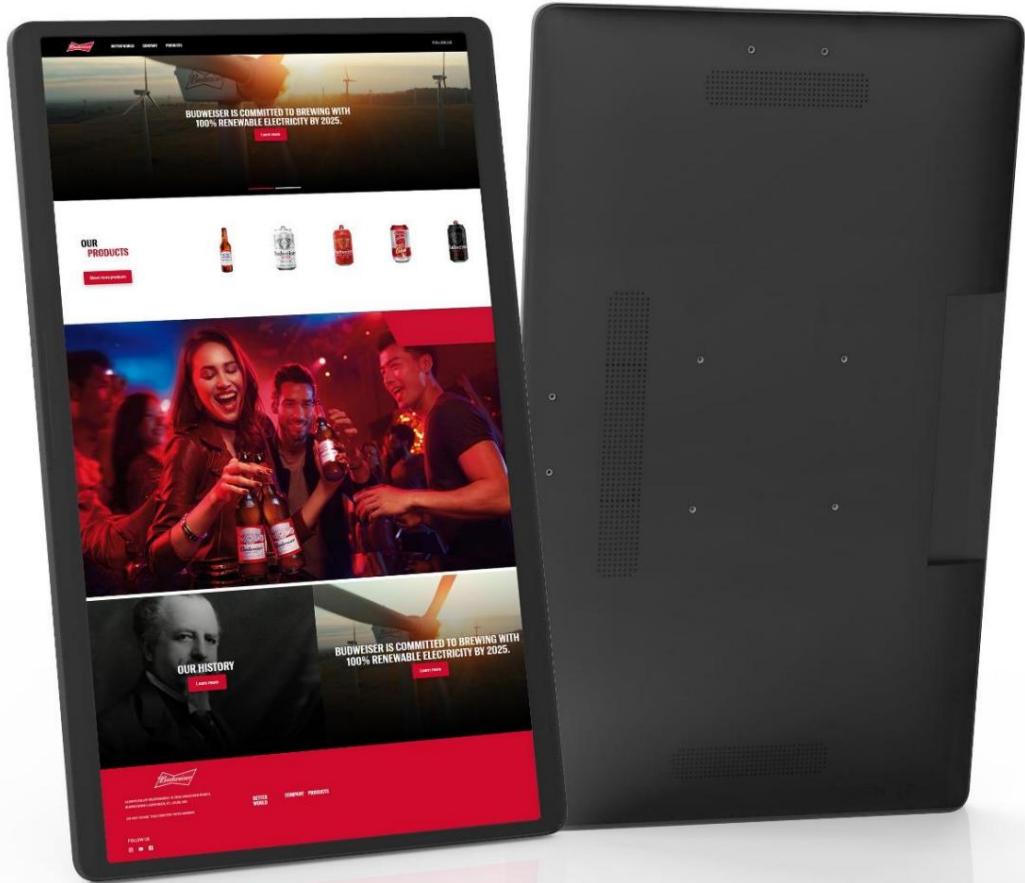







quick start Guide

# ALLNET High Performance Displays



**Art.Nr.: 210868,210871,210867,210869,212864,212865,212866**

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## Differences in display sizes:

### Resolution for the different sizes:

#### Standard resolution set to 14/16/21/24/32 inch FullHD 1920x1080: 4K

3840x2160 Superresolution software scaled possible (not native!), install Easy DPI Changer. Set DPI to 220/240/260 as needed and set resolution to 3840x2160. The DPI number can also be below

Settings/display/display size can be changed with a slider.

#### **NFC:**

14/16/21 inches have a USB NFC reader in the accessories, which can be attached to the sides.

24/32 inches do not have NFC in their accessories

#### **Optional stand with battery and charging function:**

For the 24 and 32 inches there is a matching stand with charging function for the battery in a matching color.

The 24 inch stand is not compatible with the 32 inch!

#### **POE:**

Due to performance and size, only the 14, 16 and 21 inch displays can support Power over Ethernet.



## Packaging contents

Please check the contents of the packaging before using the display  
Continue.

- ALLNET (PoE) 4K High Performance Displays
- 12V power supply
- Printed quick guide
- 14/16/21 inches with NFC reader

## General

---

The ALLNET High Performance Display with RK3588 is a 4K display with WiFi 6 and USB-C support and Power over Ethernet (PoE) capability. This display is designed for high-quality video and audio performance, with a resolution of up to 3840x2160 pixels and support for HDR content (High Dynamic Range). The WiFi 6 and USB-C connectivity options allow for easy connectivity to a wide range of devices, and the PoE capability allows both power and data to be provided to the display via a single Ethernet cable, simplifying installation and reduces clutter. This display is suitable for a variety of applications including home entertainment, conference rooms and digital signage.

## Target group of the operating instructions

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The operating instructions are intended for every person who uses the device

- sets 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 simple text

*Describes buttons, components, functions*

## Warnings

---

The warning notices in this operating manual are structured according to the following diagram:



The signal word "**DANGER**" indicates a warning of imminent 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 medium and/or light hazards injuries!



The signal word "**ATTENTION**" 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 guidelines:

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

ALLNET Computersysteme GmbH hereby declares that the ALLNET PoE displays are in accordance with the basic requirements and the other relevant

Provisions of the following directives and Directive 2014/53/EU.

The full text of the EU declaration of conformity is below

Internet address available: <http://ce.allnet.de> and at the end of the instructions.



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

ALLNET Computersysteme GmbH hereby declares that

the ALLNET PoE Displays is 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.

EU contact details:

ALLNET GmbH Computersysteme Maistrasse 2

82110 Germering

Tel. +49 (0)89 894 222 - 22

Fax +49 (0)89 894 222 - 33

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

## Disposal of packaging



Danger of suffocation due to foil and other packaging materials. The packaging and its parts should not be left accessible to children. Do not leave parts to children. Dispose of the packaging in an environmentally friendly manner. At the dealer or via the municipal waste disposal facility for environmental and environmental protection options inquire about the proper disposal of the packaging.

## Disposal of the device



Old devices are not worthless waste. Through environmentally friendly disposal valuable raw materials can be recovered. This device is according to the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) marked. This product must not exceed the end of its life normal household waste, but must be disposed of at a collection point for the recycling of electrical and electronic devices become. The symbol on the product, the instructions for use or the Packaging indicates this. The materials are according to their labeling recyclable. With reuse, material recycling or Other forms of recycling old devices will make an important contribution to the protection of the environment. At the dealer or through the municipality Disposal facility as far as possible in an environmentally and appropriate manner Inquire about disposal of the device.



As a consumer, you are obliged to use all batteries and accumulators, regardless of whether they are contain harmful substances or not, at a collection point in your community Dispose of them in your local area or in stores so that they can be disposed of in an environmentally friendly manner can be supplied.



Permanently installed device batteries or accumulators may be disposed of at the collection point device remain.

## general security



The product is intended exclusively for its intended purpose. Use the article only as described in the operating instructions. Any other use is not considered as intended and can lead to property damage.




The manufacturer or dealer assumes no liability for damage caused by not caused by improper or incorrect use. All safety instructions are read carefully and keep these operating instructions for future questions. All Warnings and instructions in this operating manual must be followed.

Keep the operating instructions and hand them over to a possible future owner.



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

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

-  Only use power supplies approved for this device.
- Only connect the power supply unit after the installation has been completed correctly.
-  Only connect the device to a properly installed and grounded location  
Connect to the mains socket. The mains voltage must correspond to the information on the Match the nameplate of the device.
- The socket should be as close as possible to the device.
- Avoid using multiple sockets. Make sure that  
The power cord or plug is always easily accessible so that the device can be switched off quickly can be disconnected from the power supply.
- Lay the power cord so that no one can trip over it.
- Plug the power adapter completely into the socket.
-  Do not touch the power adapter with wet hands.  
Risk of electric shock.
- If the plug-in power supply is defective or if the device shows other damage, it may not be put into operation.
- Do not pull the power adapter out of the socket by the cable.
- The device remains connected to the power grid even when it is switched off.  
Pull the power adapter out of the socket if the device is used for a longer period of time





period is not used.

- If there are any problems or smoke or smells are coming from the housing immediately  
Pull the power adapter out of the socket.

## **WARNING**

### Safety instructions for setting up the device

- DO NOT place the device near radiators, air conditioners or water sources. Otherwise there is a risk of electric shock  
Short circuits or fire as water can come into contact with the device.
- Make sure the humidity is between 20% and 80% and it condensation does not form.
- Make sure that the device is NOT exposed to direct sunlight, extreme exposed to heat, open flames and dust. Otherwise there is a risk of one electric shock, short circuit or fire.
- The device is designed for use inside closed rooms.
- The openings on the back of the device are used for ventilation so that the device not overheated. These must always be kept clear.
- To avoid damage, always place the product securely.

## **VORSICHT**

### Safety instructions for operating the device

- Read these operating instructions carefully before using the device  
take!
- The device can only be used with the information described on the back and on the power supply  
Voltage can be operated.
- Replace any existing batteries only with the same or an equivalent one  
Battery type
- Do not use devices that are obviously defective. The device should not be normal work - especially if unusual noises or smells occur -  
immediately pull the power plug out of the socket.
- If the cables are damaged, the device may not be used any further.
- Do not place the device on an unstable surface. The device could be damaged or people are injured. Any fastenings should only be made according to the  
Manufacturer information is attached 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 device in a damp environment or near  
Gas flames, stove tops or other hot objects.



- Keep the device dry.
- Protect the device from weather influences such as wind, rain, humidity and moisture.
- Do not display a still image permanently. This could cause damage to the display arise.
- Do not open the case, but contact in case of repair  
Your specialist dealer or the manufacturer.
- Work on the device may only be carried out if it has been disconnected from the power source.
- Make sure that only people who follow the instructions operate the device  
have read it or have been instructed in its operation by a knowledgeable person.



## Safety instructions for repairs and maintenance

- Repairs and maintenance work may only be carried out by customer service or by specialist personnel authorized by the manufacturer. Improper repairs can pose significant risks to the user.
- Regular maintenance by the manufacturer is not necessary.
- Never attempt to repair a defective device yourself. Always to one of ours  
Contact customer service centers.
- Under no circumstances should you open the device. This may only be done by customer service or by  
Manufacturer-authorized specialist personnel. Otherwise there is a risk of electric shock.
- Operators may only independently rectify faults that are obviously due to operating errors.
- Clean the display regularly.
- To clean, remove the power plug from the socket.
- Do not use liquid cleaners or cleaning sprays. The device may only be cleaned with a damp cloth.
- It is forbidden to make any modifications to the device.
- Damaged devices or damaged accessories may no longer be used  
become.

**HINWEIS**

## Intended Use

---

The tablet is suitable for commercial use as well as for private use. However, there are also limitations in functionality for private use, which arise from the native Android operating system. This concerns the integration of certain video and

Audio codecs and the functionality of some APPs offered in the Playstore. We cannot accept any liability for this and this is not a defect or warranty case. If you do not have any in-depth experience with the Android operating system, please contact our hotline beforehand. The tablet is a wall display with an operating system and can be powered via PoE or power supply. A battery is not integrated. The operating system is Android (installed), Linux is installable (n. installed). This device complies with CE regulations.

The manufacturer assumes no liability for damage caused by improper use. Read the operating instructions carefully before using read through. This is the only way to use all functions safely and reliably.

## Operating requirements

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The device is designed for use indoors and must be used before excessive dust, extreme temperatures, moisture and condensation.

The environmental requirements are specified as follows:

### **Operating conditions:**

Temperature 0° to +40°

Humidity 20% - 80% non-condensing

### **Storage conditions:**

Temperature 0° to +60°

Humidity 10% - 90% non-condensing

## Technical details

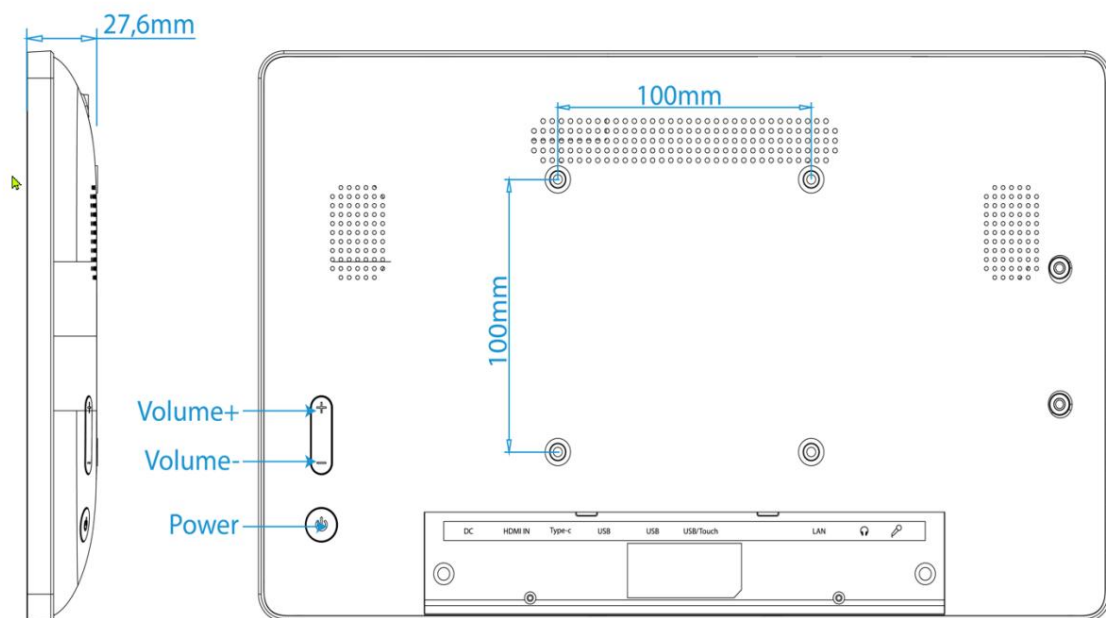
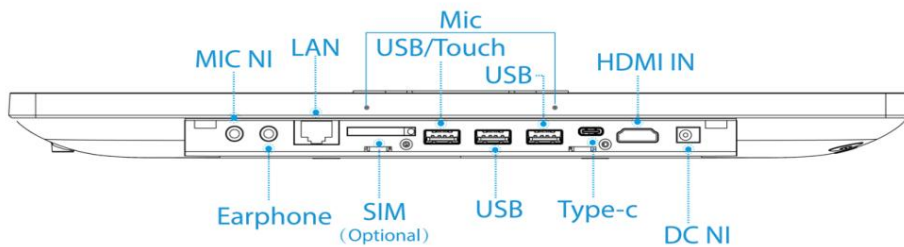
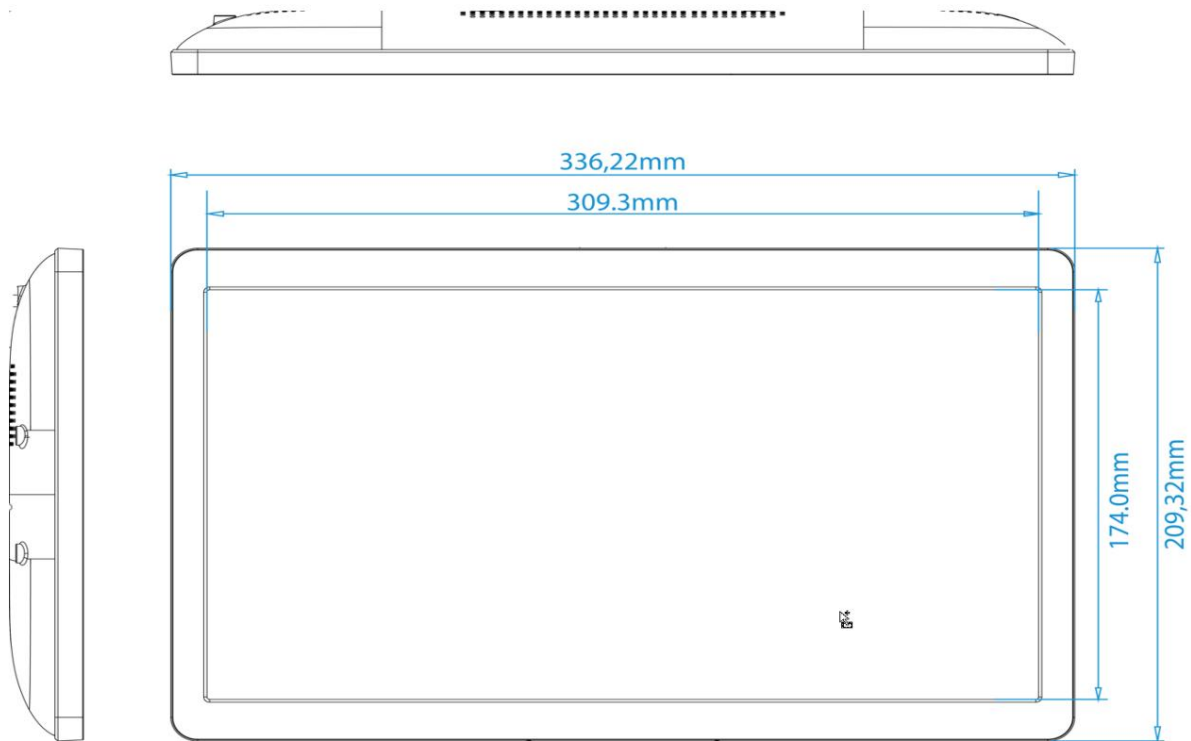
<b>System</b>	CPU	RK3588 Quad core cortex A55+Quad core cortex A76
	RAM	4GB
	Internal memory	32GB
	Operation system	Android 12
<b>Display</b>	Panel Size	14"/16"/21"/24"/32" LED LCD
	Panel Type	IPS
	Resolution	14", 16" 1920*1080; 21", 24", 32" 3840x2160
	Display Colors	16.7M Colors
	Color Gamut	sRGB 99%
	Display mode	Normally black
	Viewing angle	85/85/85/85(L/R/U/D)
	Contrast ratio	1000:1
	Luminance	250cdm2
	Aspect Ratio	16:9
	Response Time	14ms
	Back-light Type	Eled
	<b>Touch</b>	Model Type
Number of points		10-Point
Interface for touch		HID-USB
<b>Network</b>	WiFi	802.11b/g/n/a/ac/ax 2.4/5GHz (WiFi 6)
	Ethernet	100M/1000M
	Bluetooth	Bluetooth 5.0
<b>Interface</b>	Power Jack	DC power input
	MIC IN	External microphone input
	Earphone Output	3.5mm earphone output Full
	Type-c	Function ( Except for charging function )
	SIM Slot	no
	USB	Standard USB 2.0 Host
	USB	USB 3.0
	USB	USB 3.0
	HDMI IN	Support HDMI 2.0 (Touch Support USB)
	RJ45	Ethernet interface
<b>Other</b>	Product Colors	white/Black
	SPROUT	100mm*100mm
	Button	Power/Vol+/Vol-
<b>Other Power</b>	Speaker	4ÿ*5W*2
	Microphone	Built in dual Microphone , Support noise reduction and echo cancellation
	NFC	no
	G-sensor	Support 90 degrees
	Camera	no
	Language	Multi-language
	Certificates	CE/FCC
	Power Type	Adapter
	Input Voltage	DC 12V/4A
	Power consumption	ÿ25W
<b>Working Surrounding Accessories</b>	Storage Temperature	-20ÿ---60ÿ
	Working Temperature	0ÿ---50ÿ 10~90%RH
	Adapter	Adapter.12V/4A
<b>Working Surrounding</b>	User manual	yes



Plug-in power supply	
Manufacturer	Shenzhen Fujia Appliance Co., Ltd. Address: 5F of Building F, Hengchangrong (xinghui) Sci-Tech. Park, Huaning Road, Longhua District, Shenzhen, Guangdong, PR China
Type	FJ-SW20261203000
Input voltage	100-240Vac
Input frequency	50/60Hz
Input current	1.5A
Output voltage	12V
Output current	3A
Output power	36W
Average operational efficiency	87,40%
Light load efficiency (10%)	75,59%
Power consumption at no load	0.1W Max
Energy efficiency class	WE

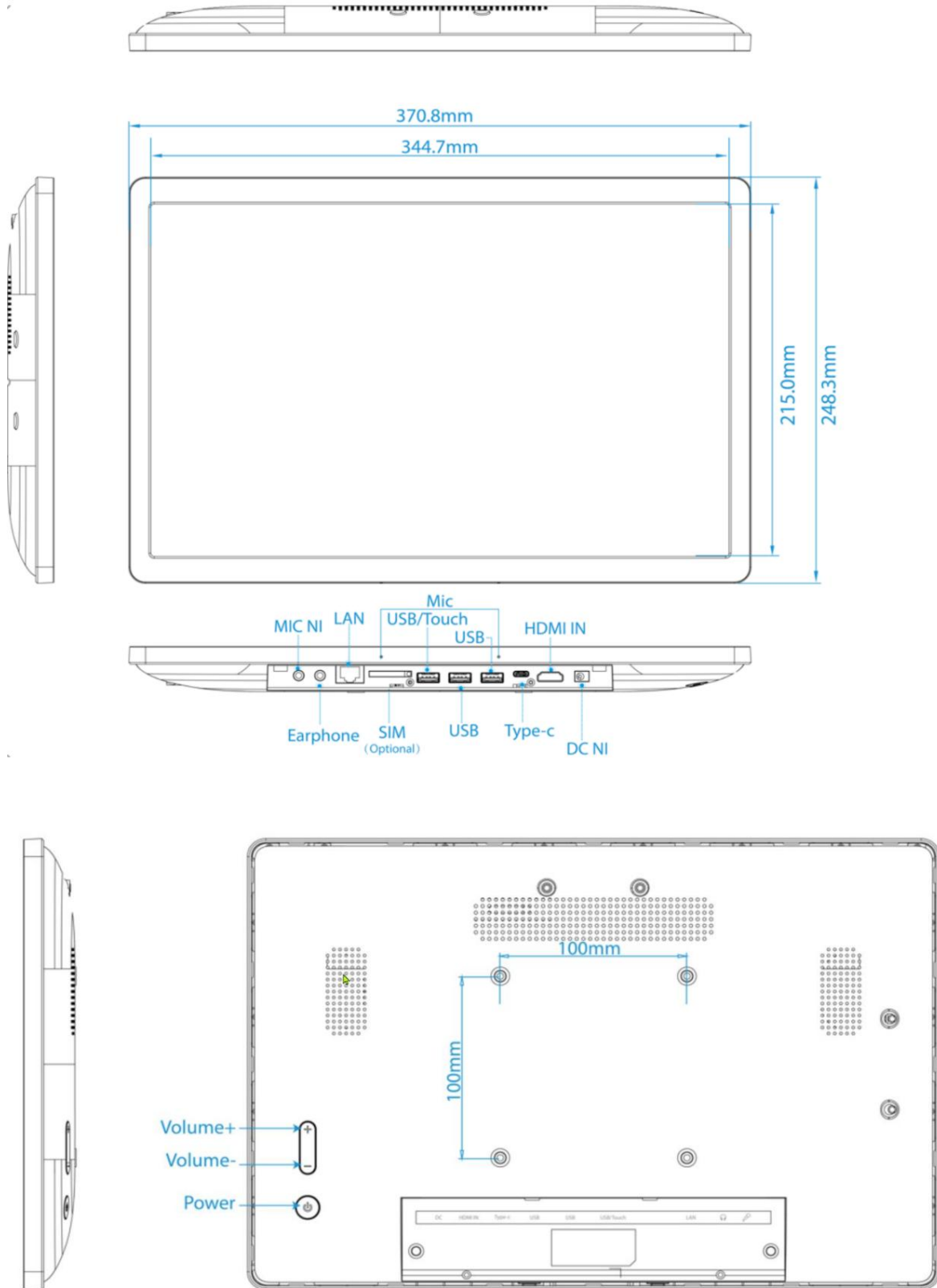
# Dimensions

14 inch tablet

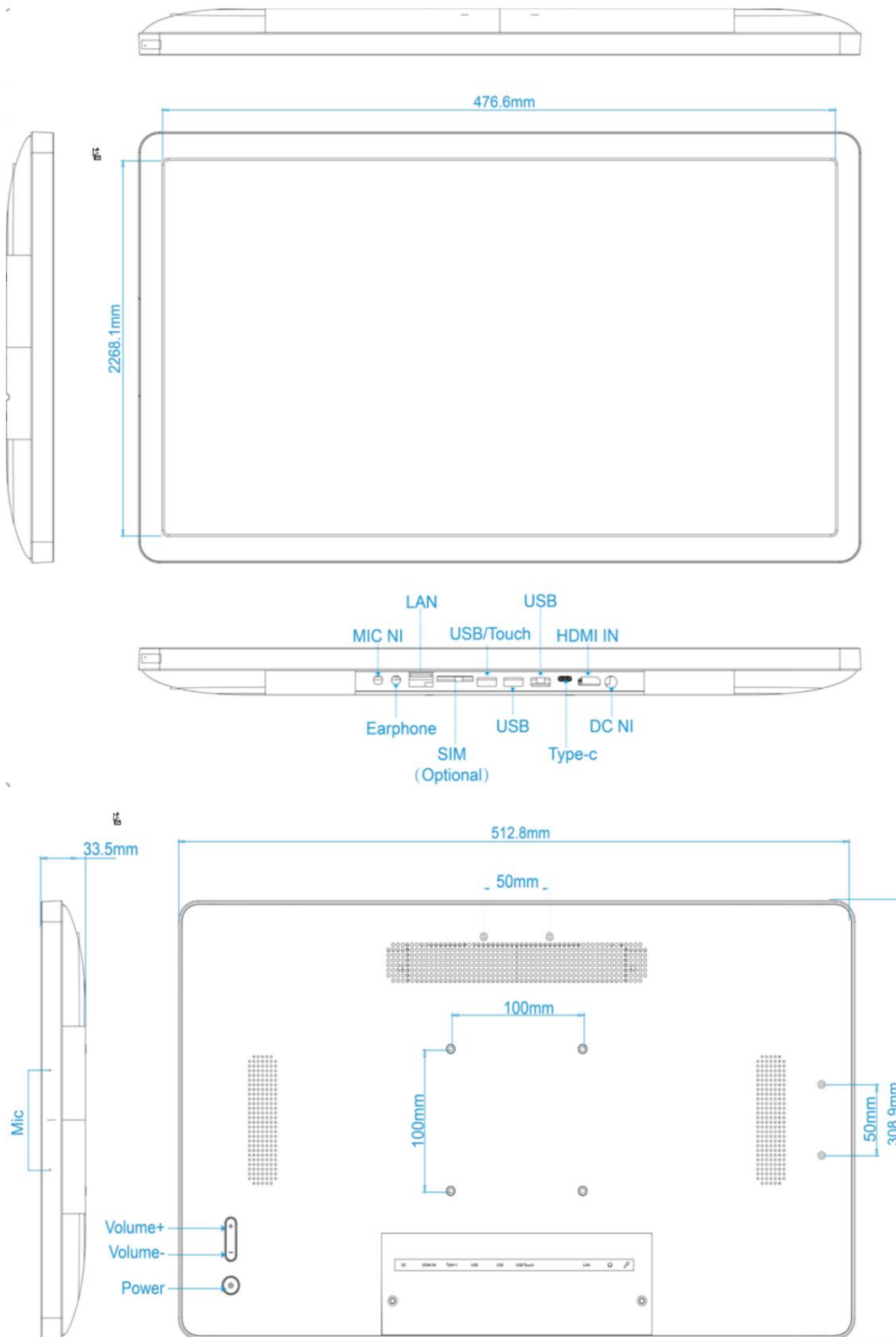




### 16 inch tablet



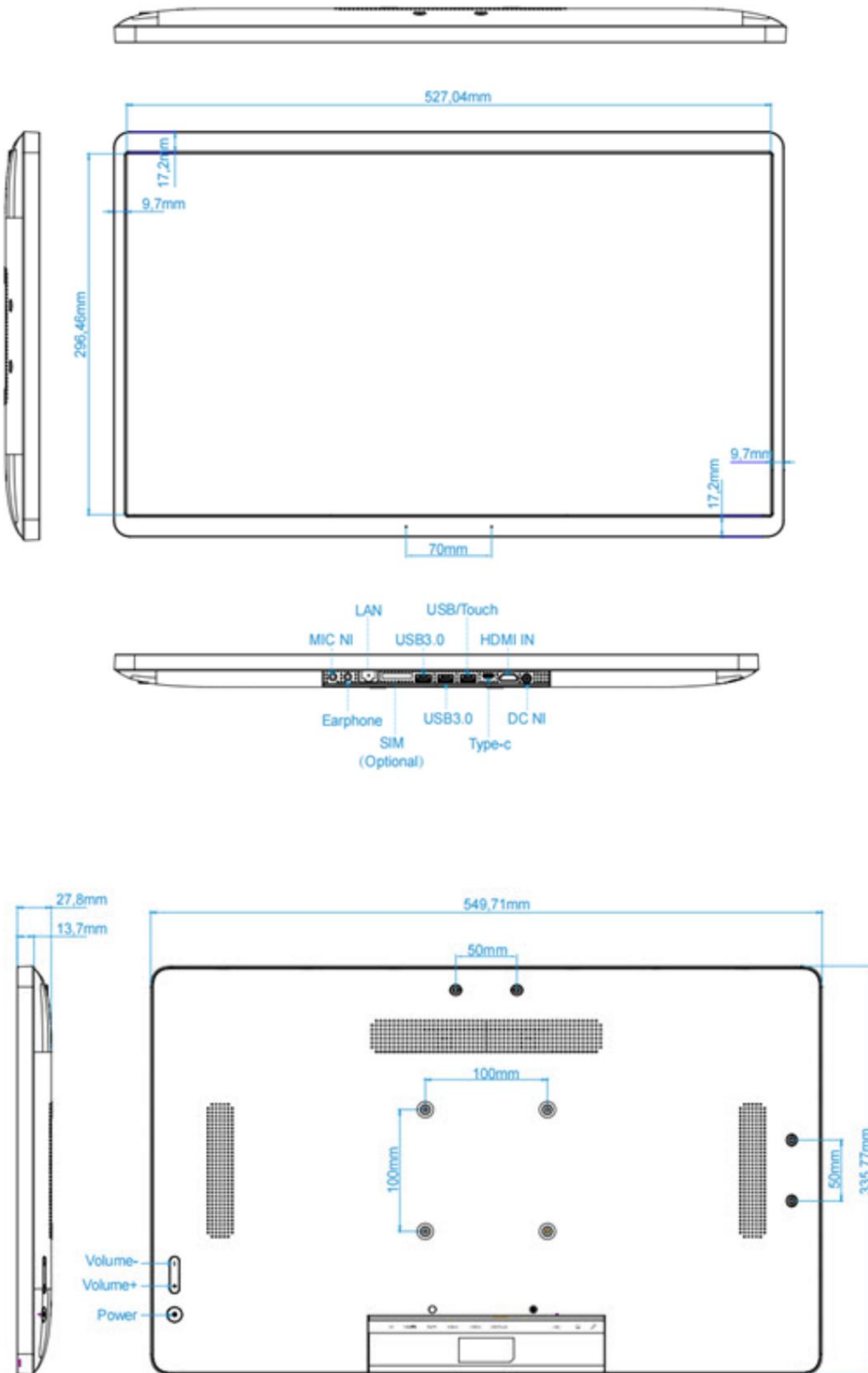
Tablet 21 inches



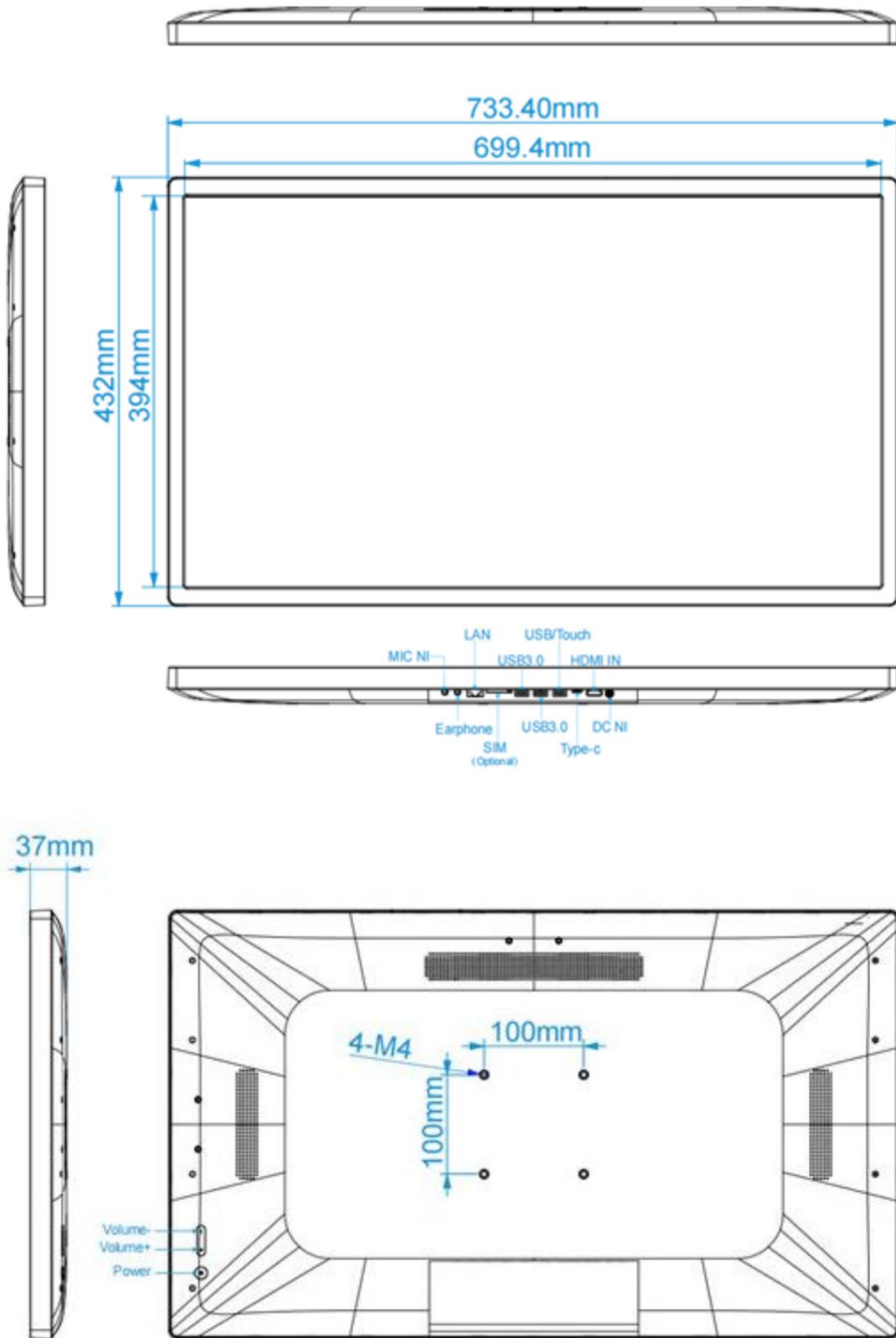




Tablet 24 inches



Tablet 32 inches



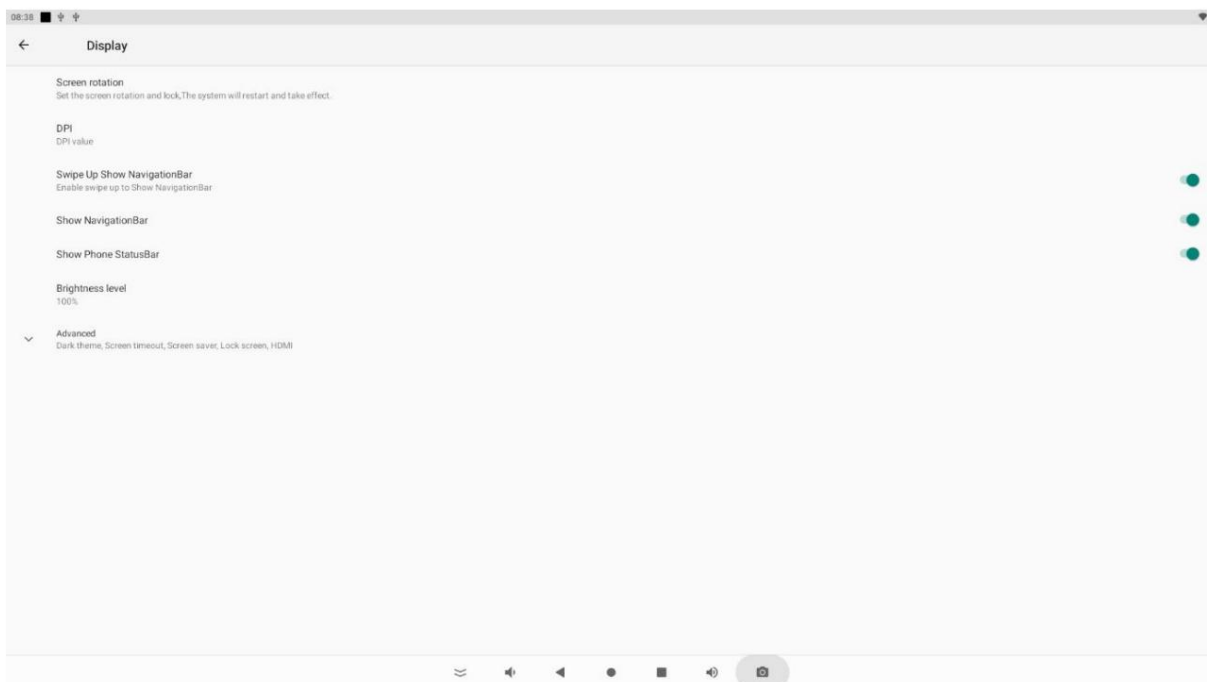
## service

Android based on AOSP is an open system that does not work with Android UIs from other manufacturers can be compared. For incompatible apps from the Playstore or your own apps, we can do not provide support. **This is a guide for Android in general, the Android** **However, versions differ depending on the version of the operating system. For this you use** **Please use the internet for research.**

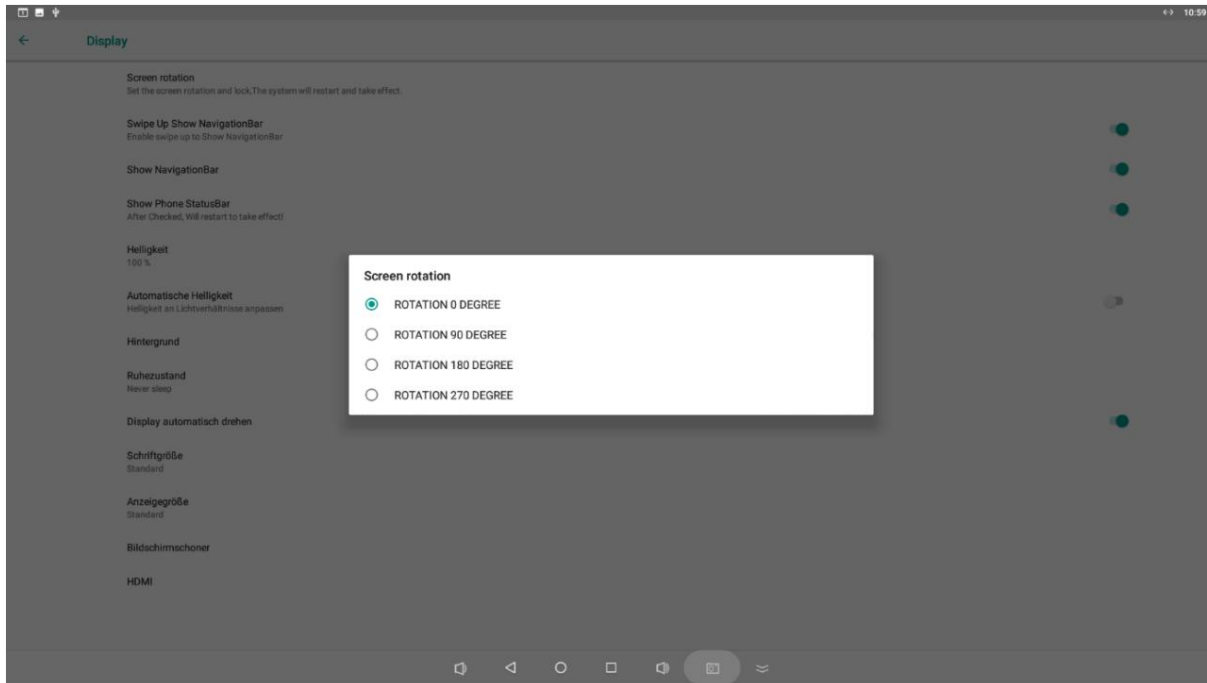
Connect the tablet to power. The tablet starts automatically.

### Display Rotation

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



In the pop-up, select the degree of rotation. The tablet will now restart in the set mode Modus.

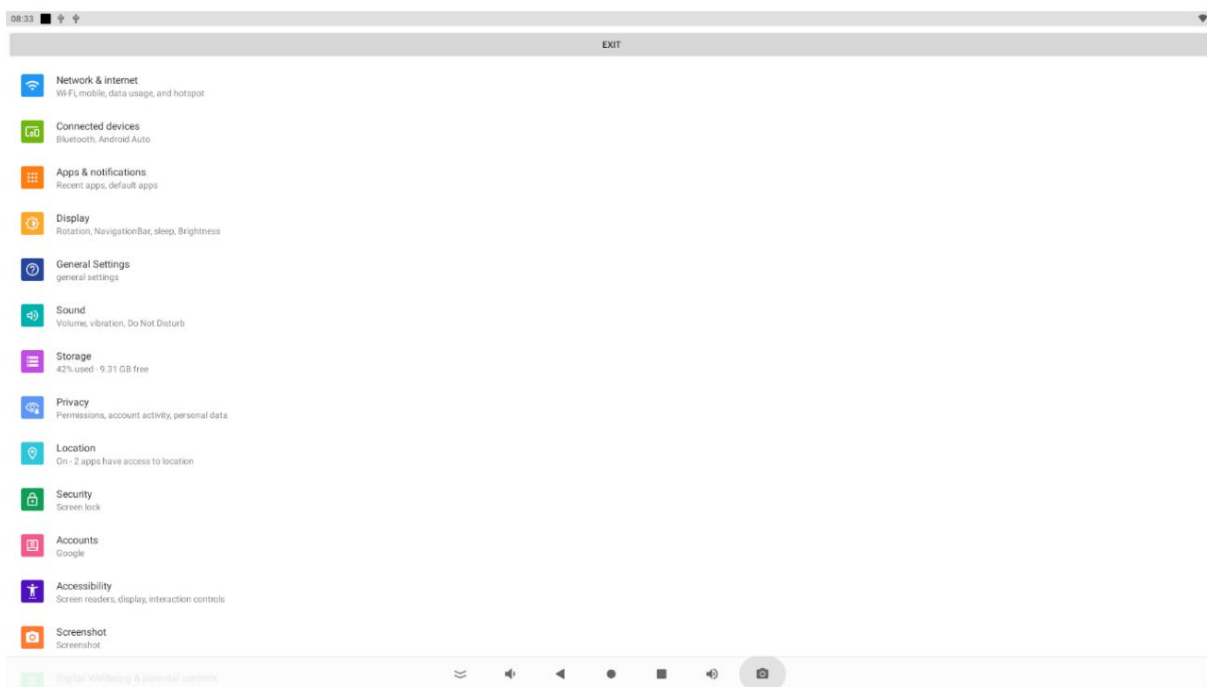


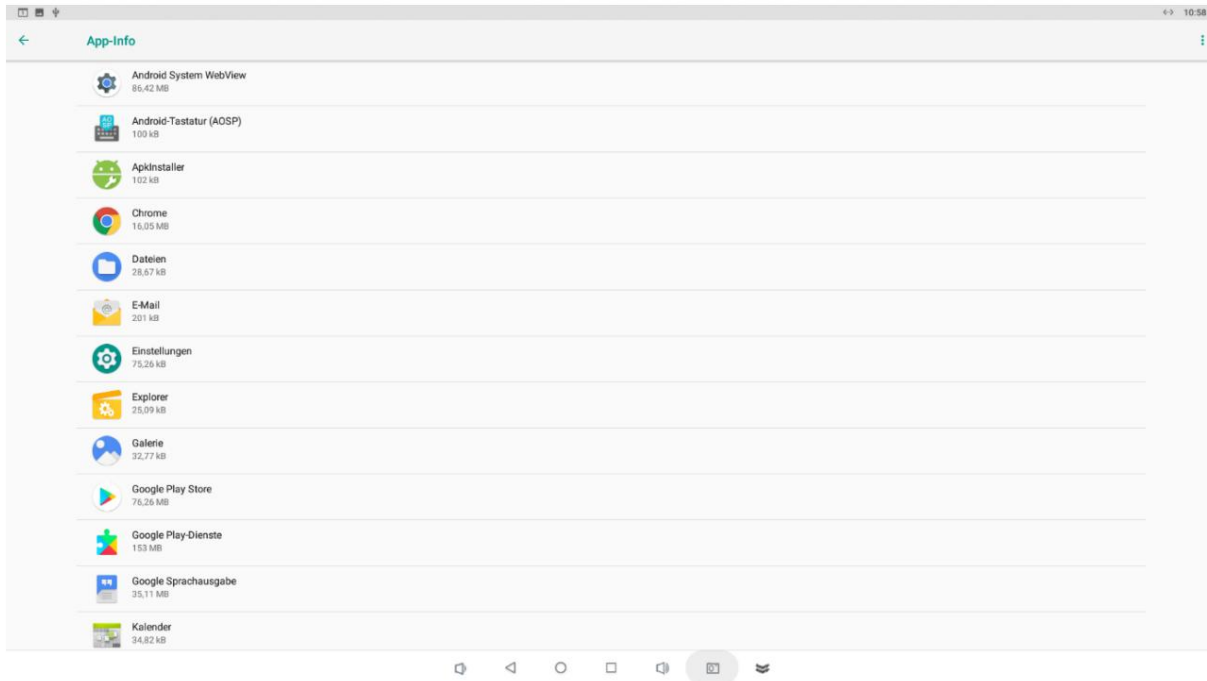
## Display sizes change DPI

The content of the displays can be changed in size. This is important if you are looking for one Change other resolution with software like Esy DPI Changer. To do this, please go to Settings display/display size. You can now use the slider to adjust the content.

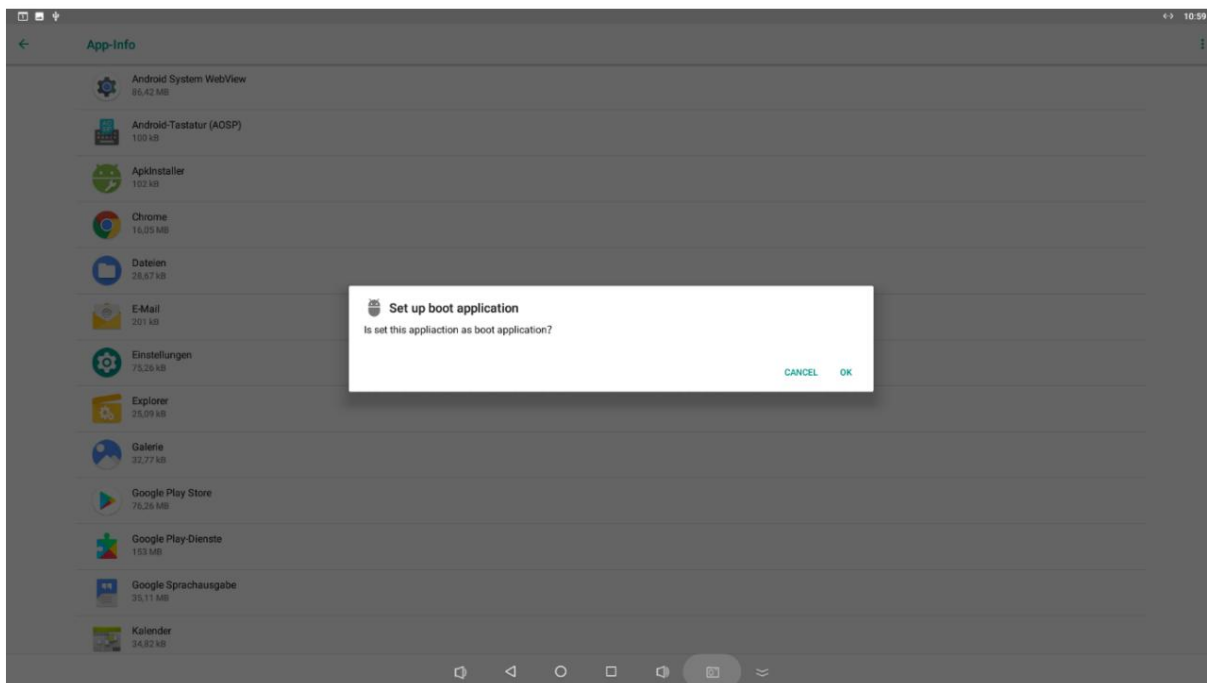
## Automatic start of an application

With this function you can have an app start automatically. For this please go to Settings/Apps & Notification. There click on show all apps.





Now select the app you want and press and hold until the following pop-up window appears  
Confirmation appears.



Confirm with OK. When restarting, the application starts automatically.

## Fixing an APP

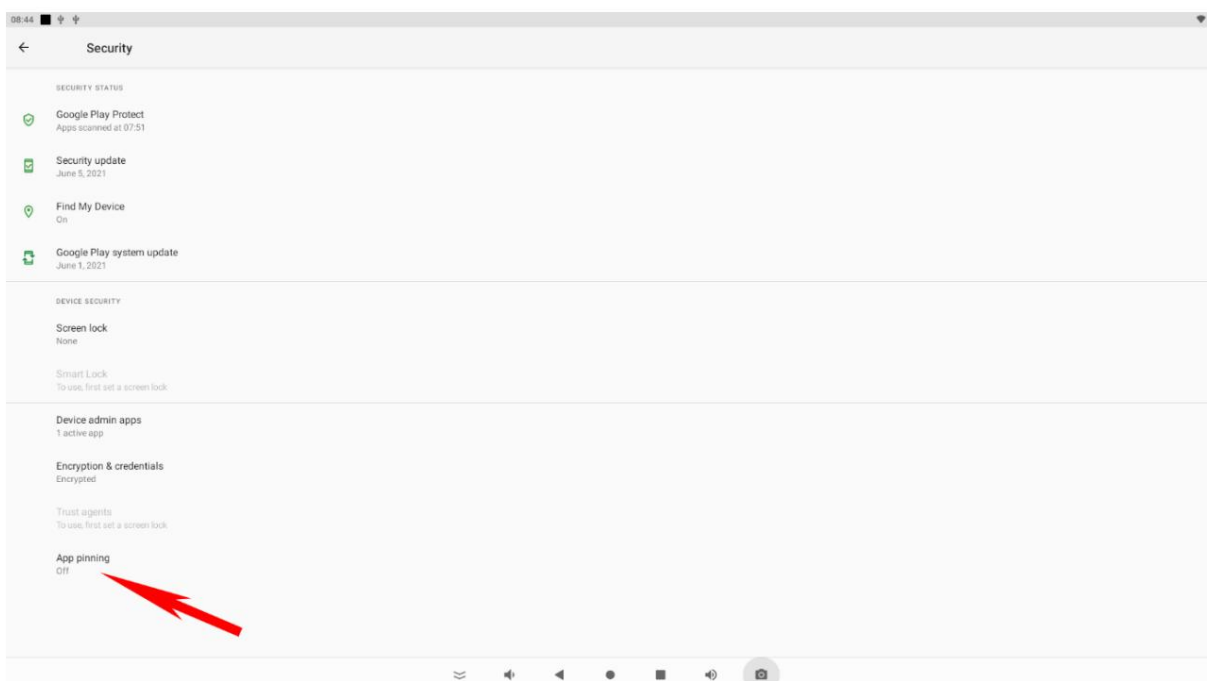
Please note:

This kiosk mode was natively integrated into Android from version Lollipop onwards. The way it works is simple and is just a simple protection against unauthorized access. The APP can still be used by a key combination can be ended. You can find a professional kiosk APP in the Playstore at “Ekiosk Browser”. Go to Settings/Security and click “Advanced”

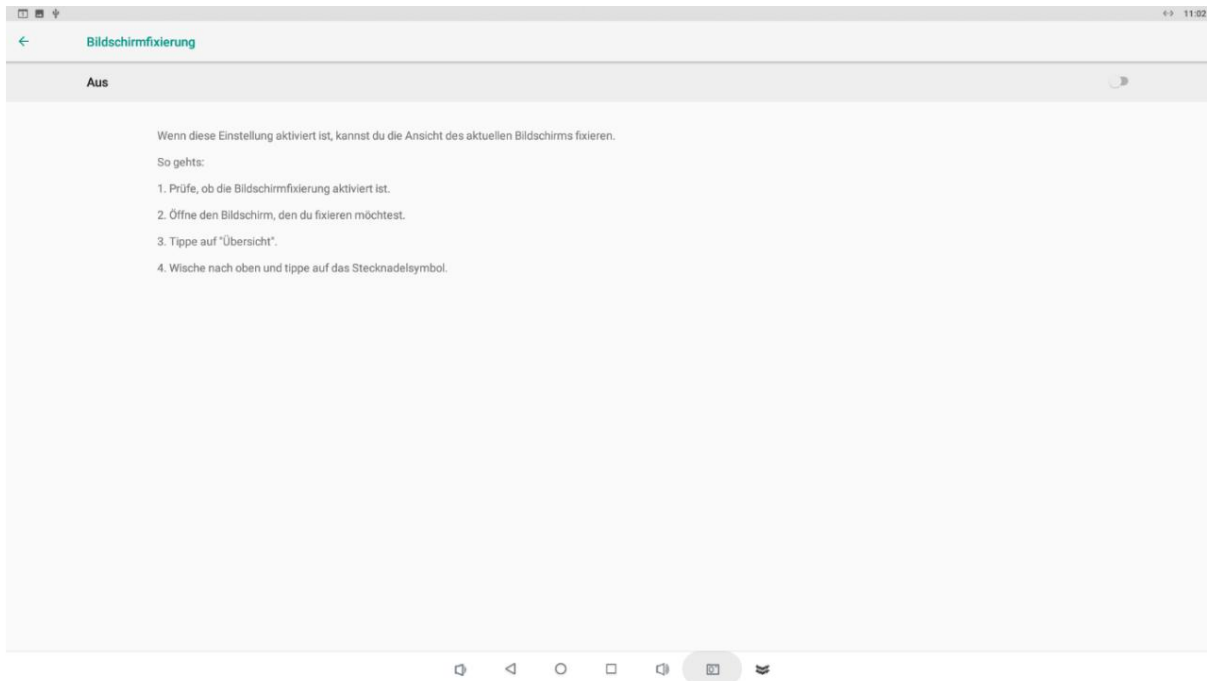
Screen fixation.



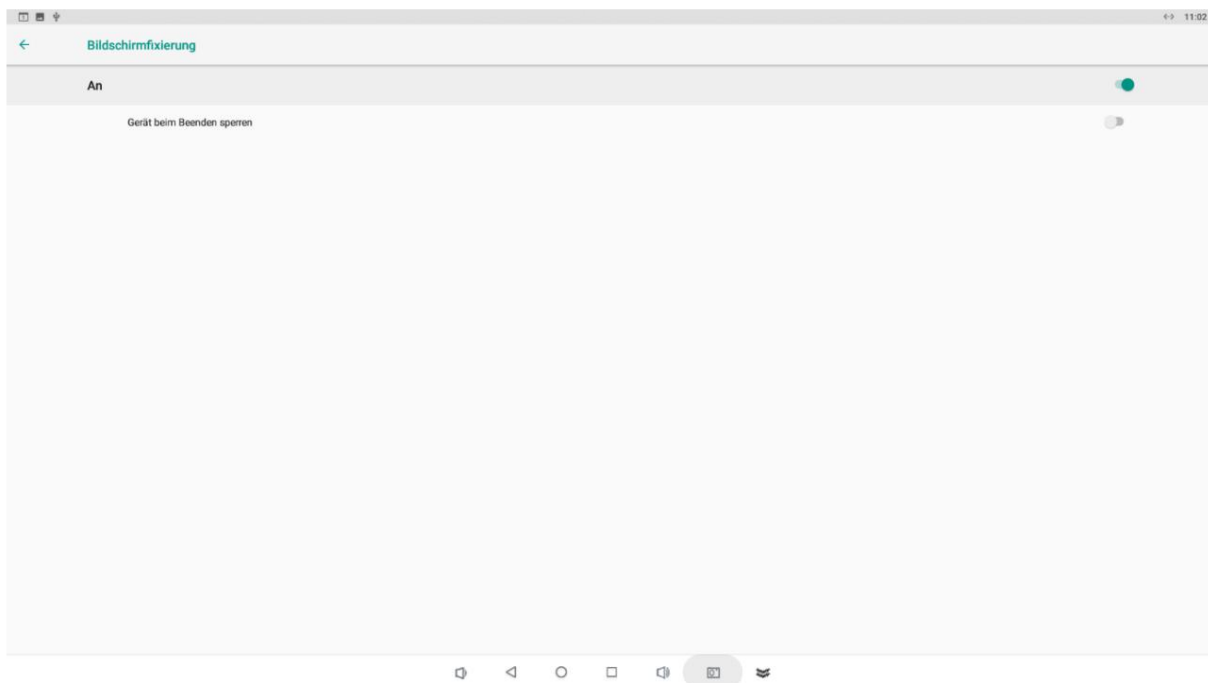
There please go to “Screen pinning/app pinning” and click on it.

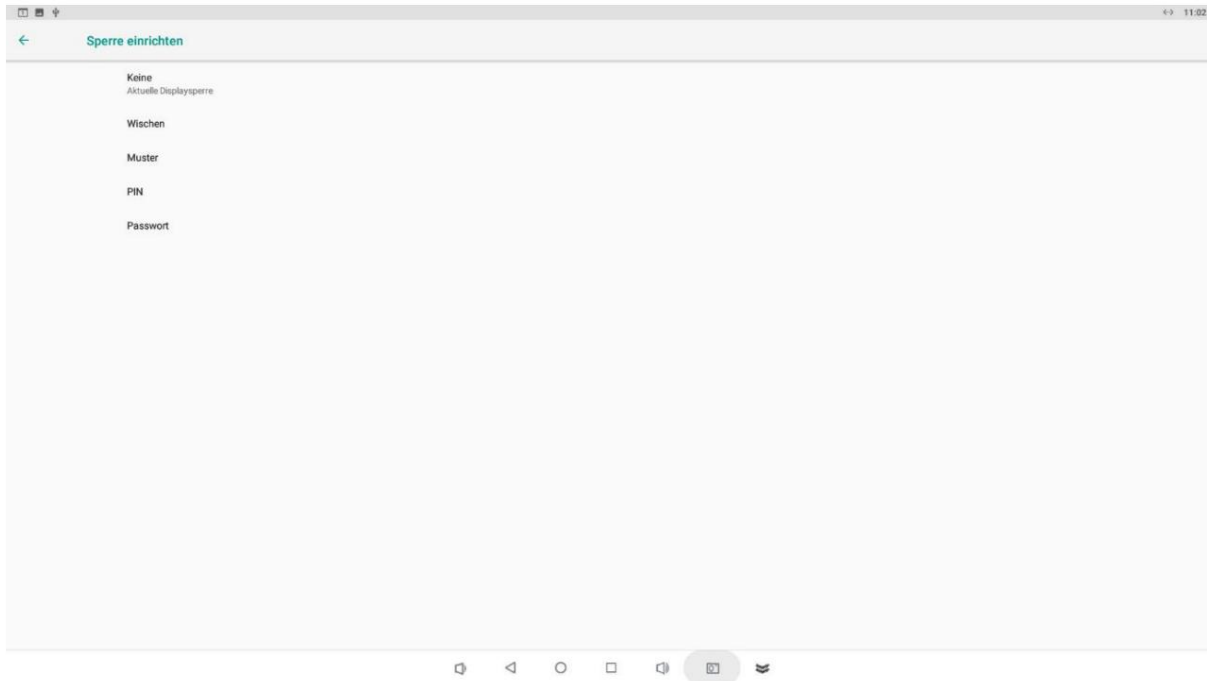


Now you can turn on the main switch.

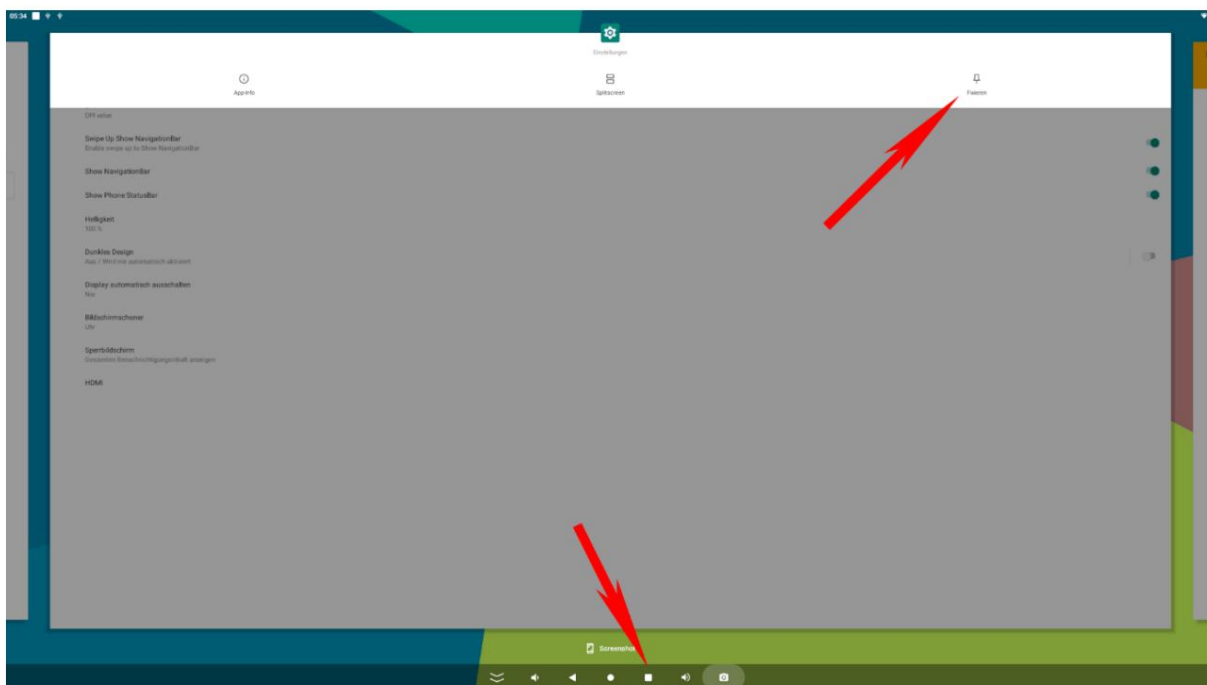


As an option, you can also install security that locks the tablet when the app is closed.





You can find the most recently opened apps under the square in the navigation bar. Click the middle icon on the app you want to use at the top.



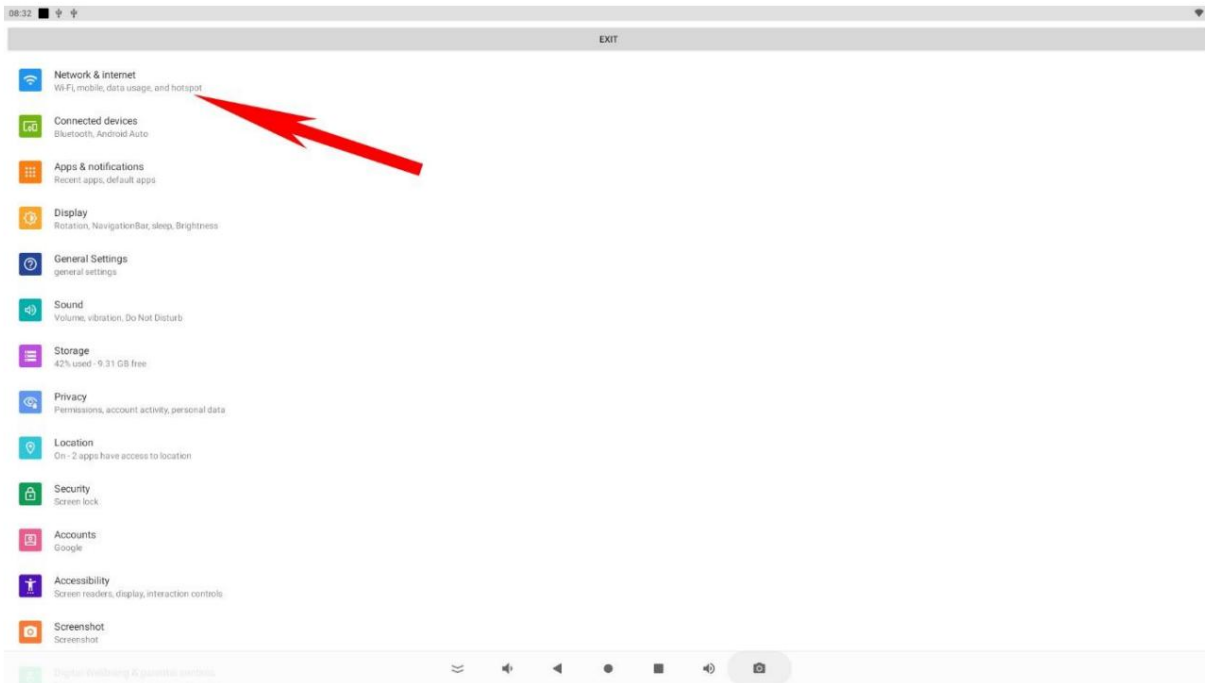
This screen pinning will no longer be active after a reboot and the pinning procedure will need to be performed again.



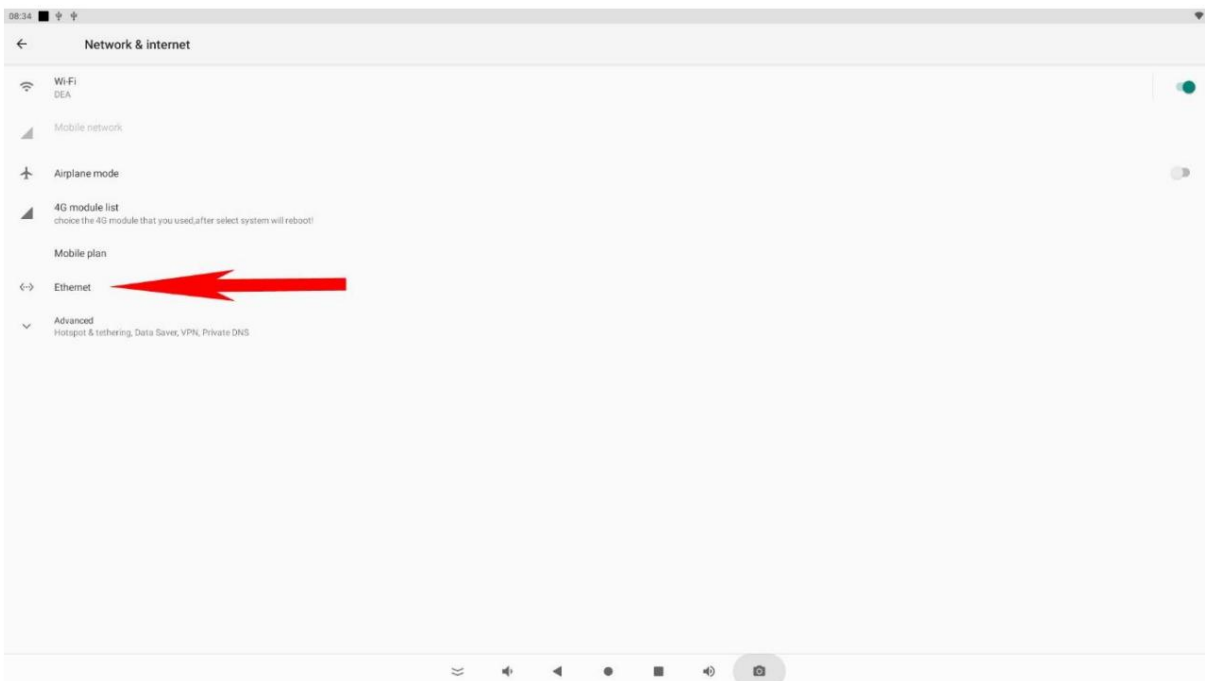
Setup Ethernet Open

the " Settings"

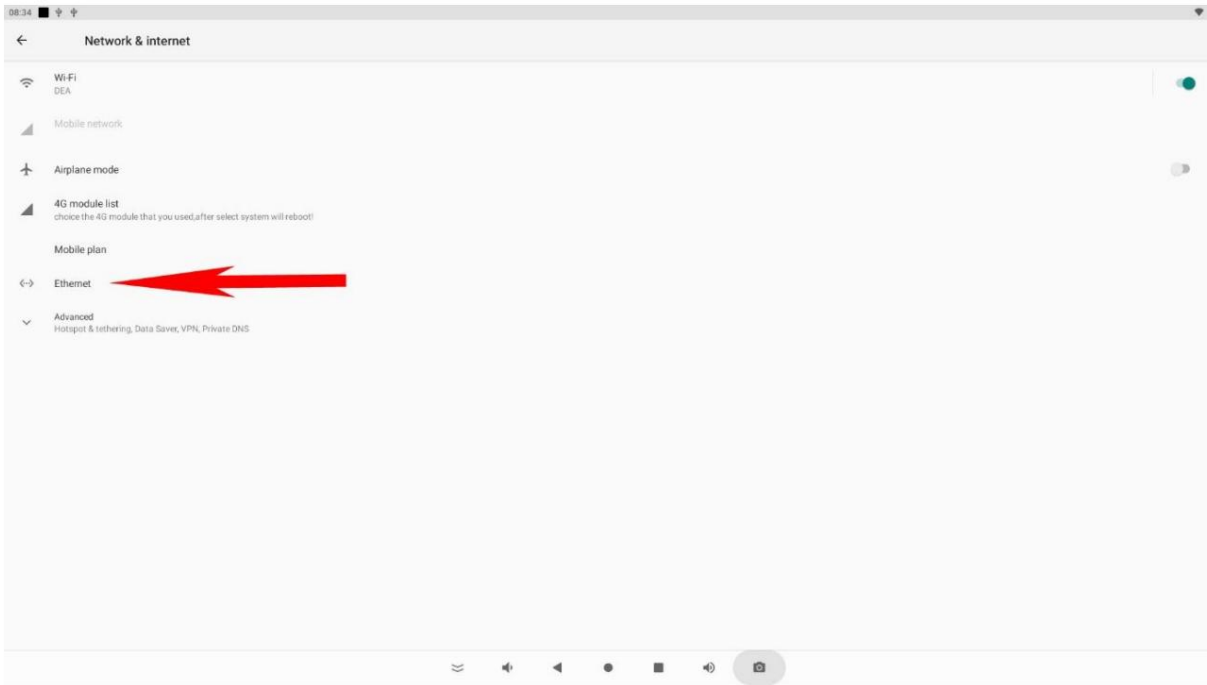
Select "Network & Internet", then click "More"



Please click on "Ethernet".



If the switch is not activated, please press it.



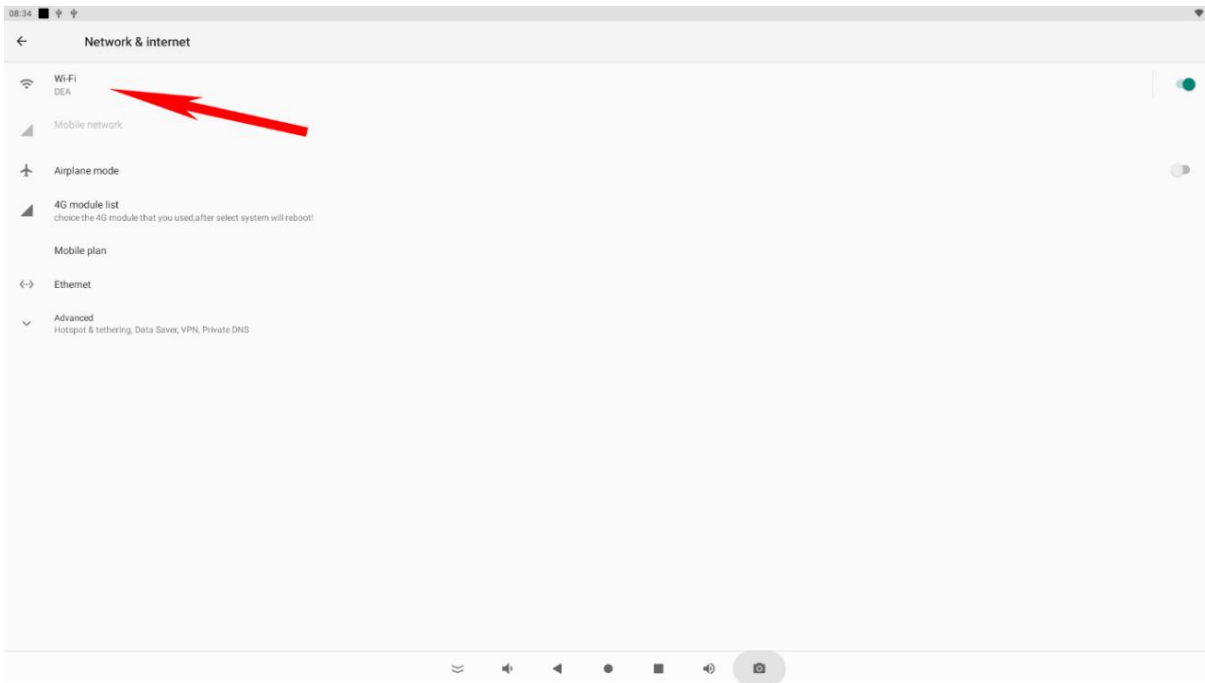
Under "Ethernet Ip mode" you can select DHCP or Static Ip.



## WiFi facility

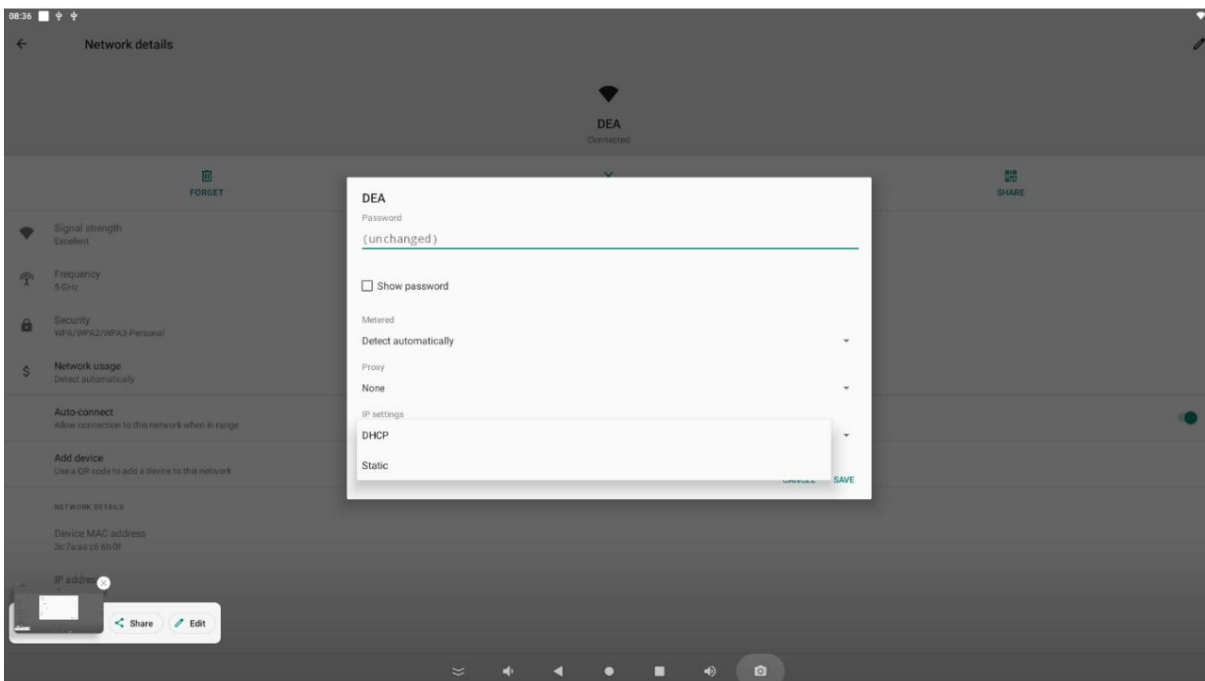
Open the Settings app

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

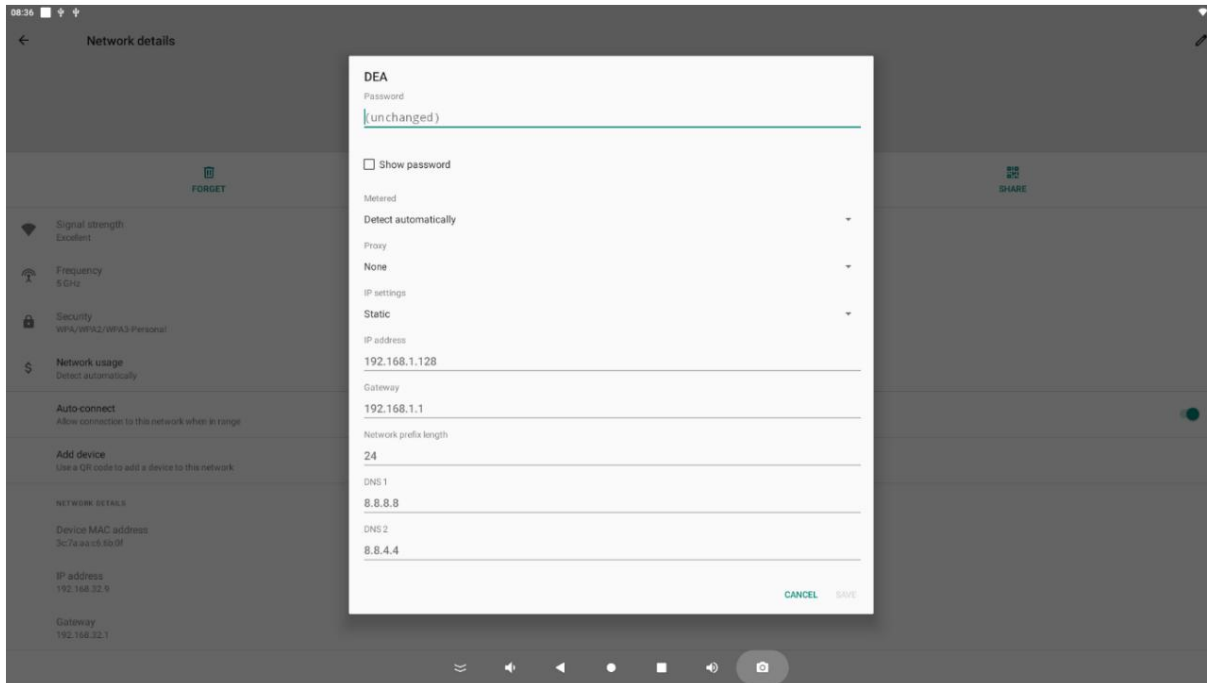


Select the desired WiFi network and enter the password if necessary

After the connection has been successfully established, the tablet automatically connects to the network, when it is within range.



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

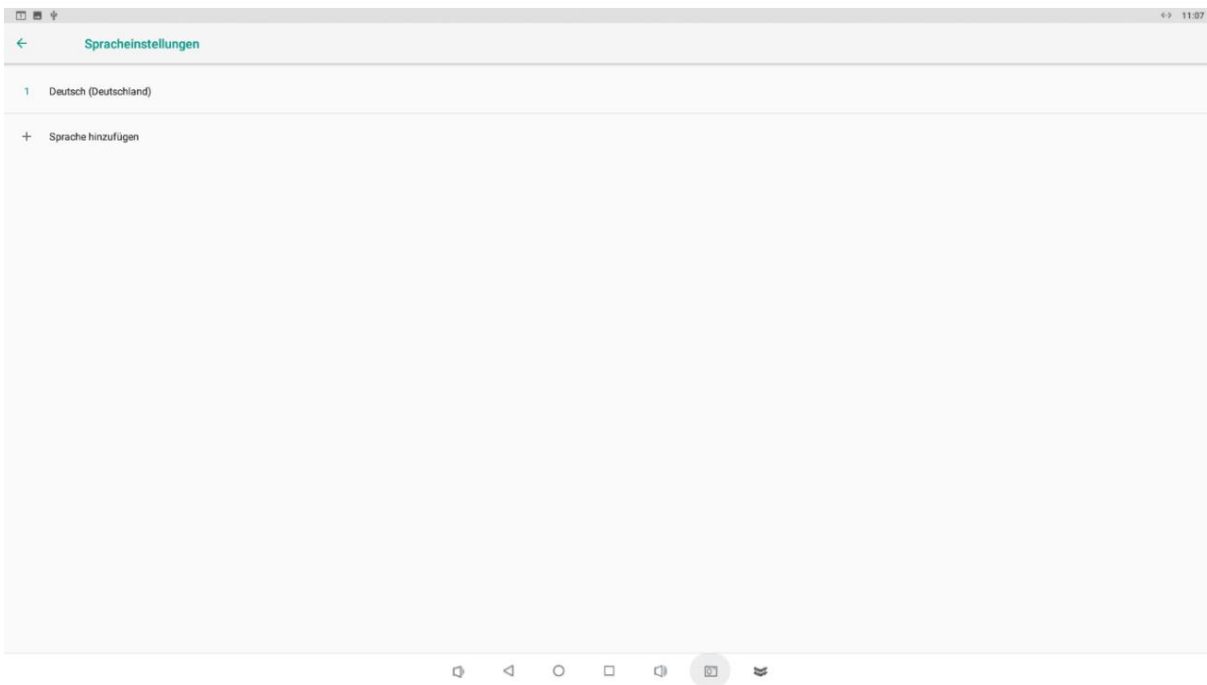
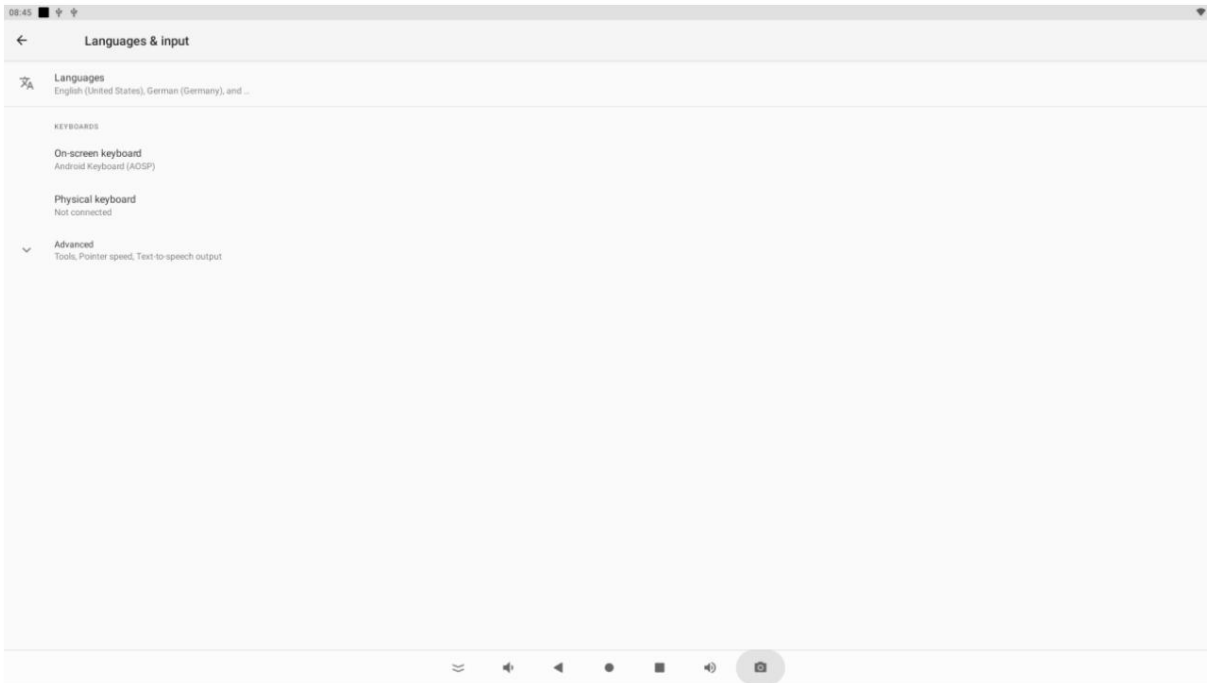


## Settings Change language

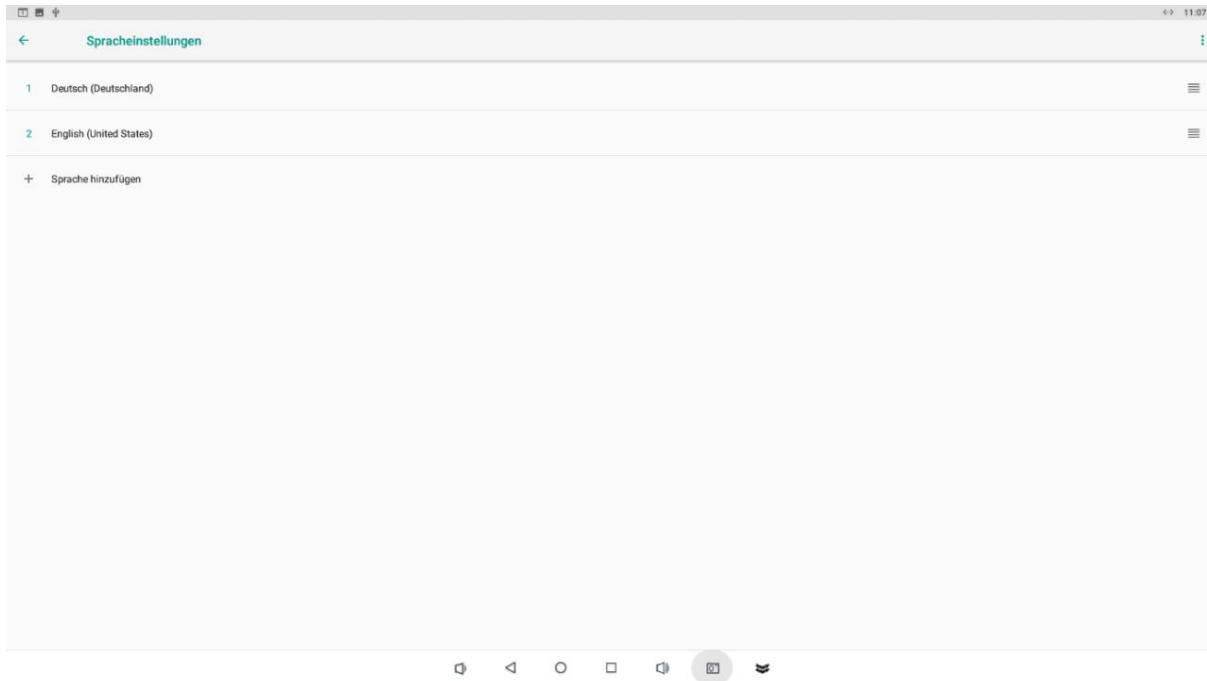
Open the Settings app

Under “System”, then select “Language & input”, then click Language and select the desired language





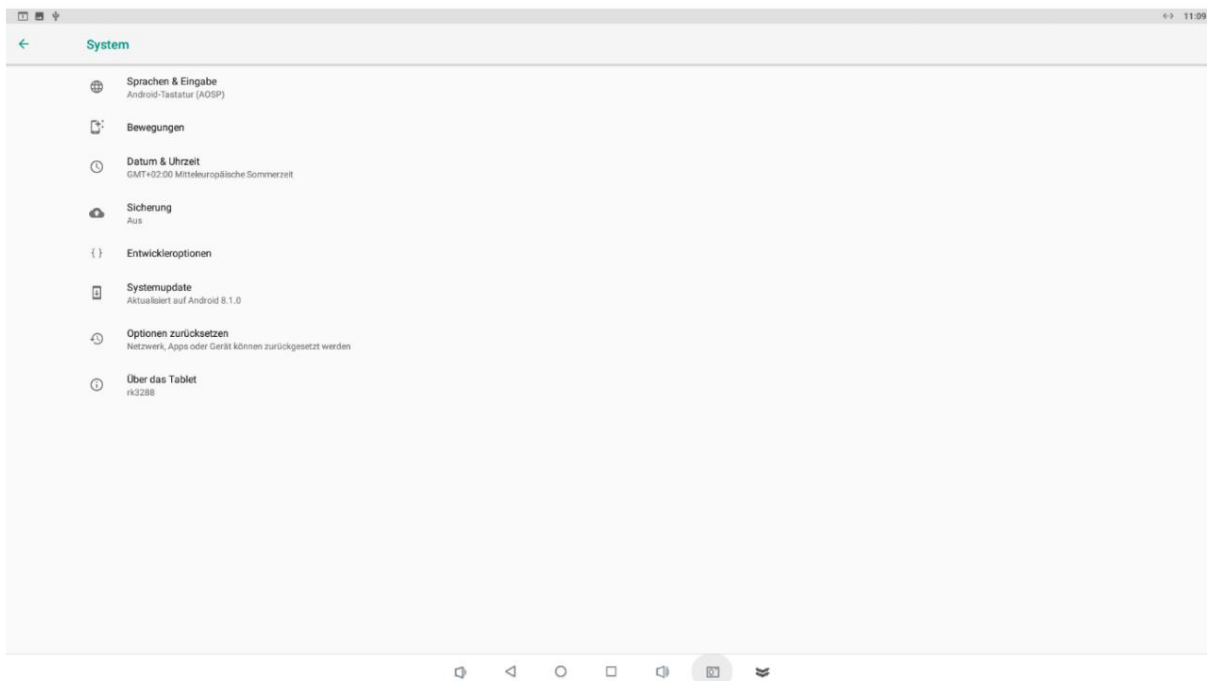
You activate the language by pulling the language up on the right edge.



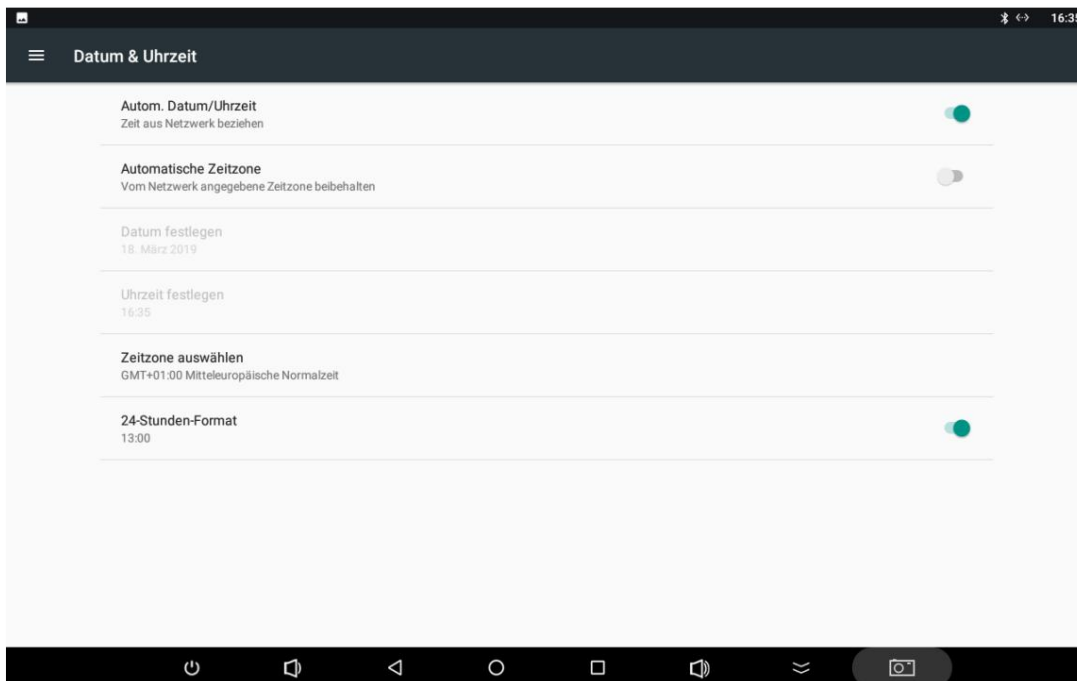
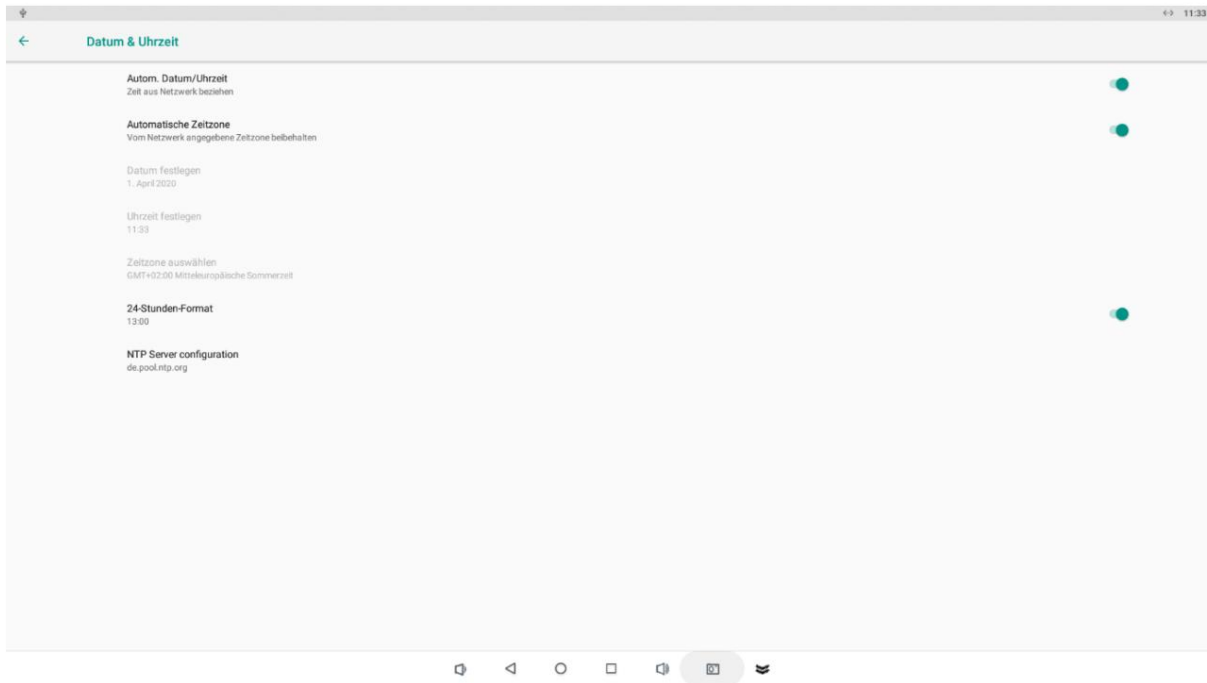
Change settings time zone, date and time

Open the “Settings” app and select “System”.

Select the “Date and Time” menu item from the “System” menu item.



You can obtain the appropriate time zone either automatically via the network or manually change using the “Select time zone” item.





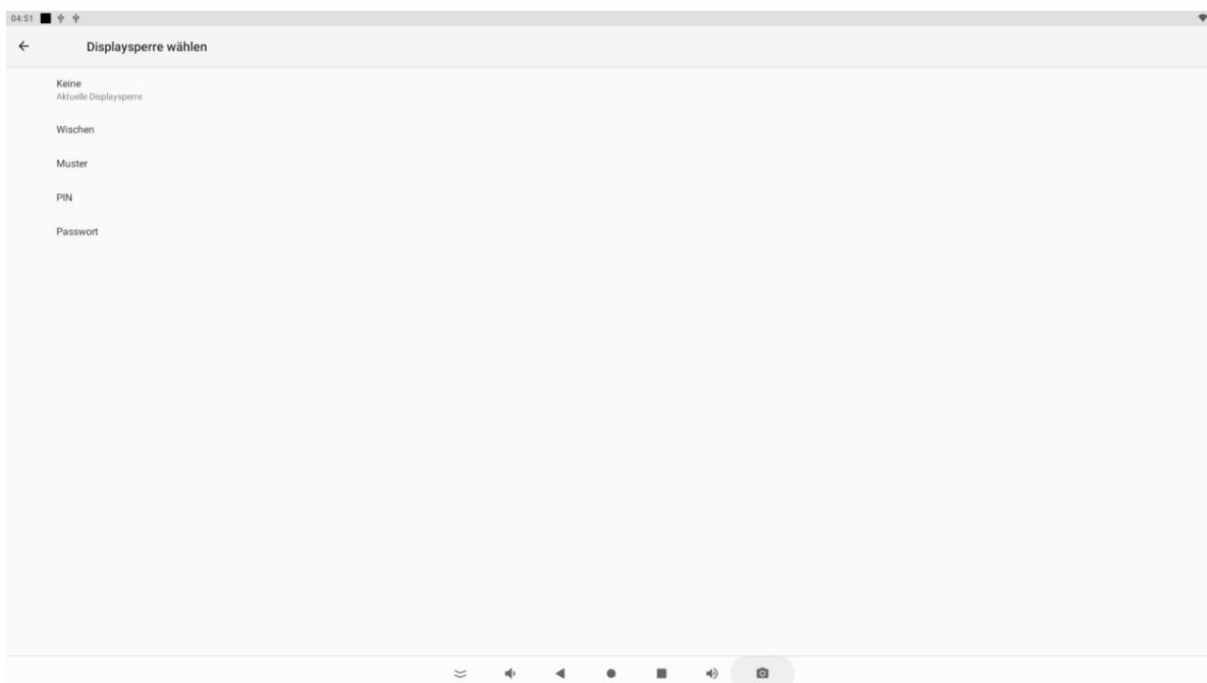


## Screen lock settings

Open the “Settings” app and then “Security”.



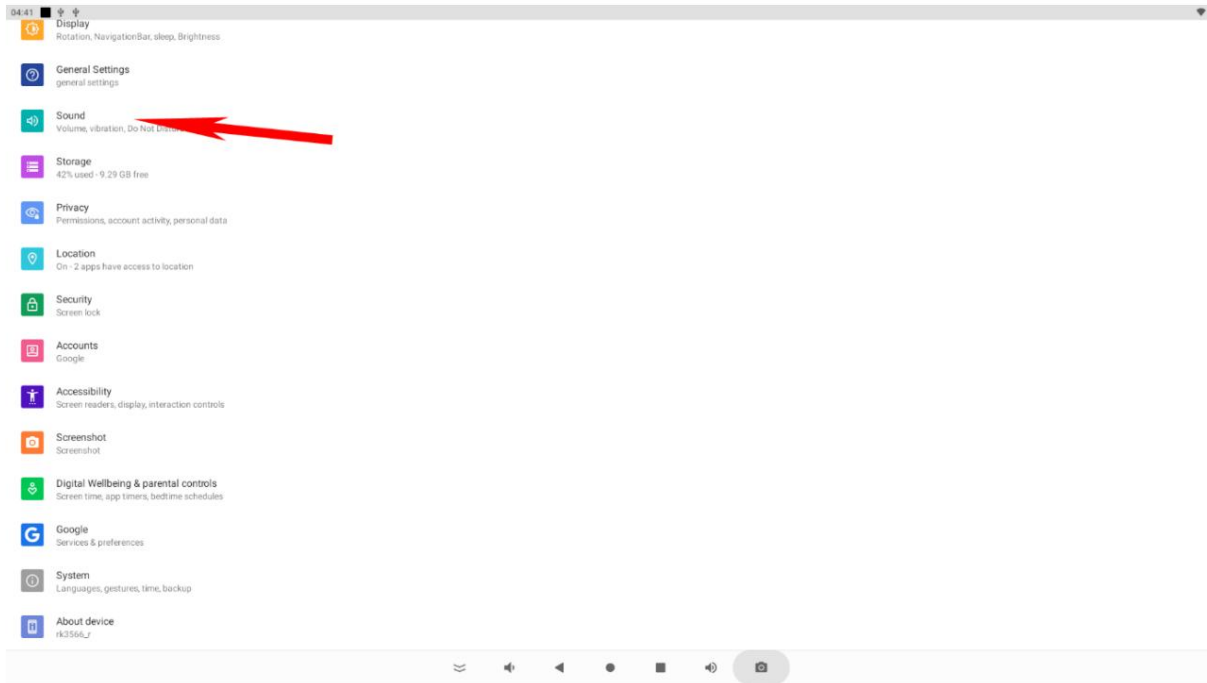
Under “Device security/display lock” you can then, among other things, enter a PIN to unlock the tablet.



## Change the volume setting

Open the Settings app

Select the “Sounds” menu item from the “Device” menu item. Here you can adjust the volume for Set media playback, alarms and notifications.



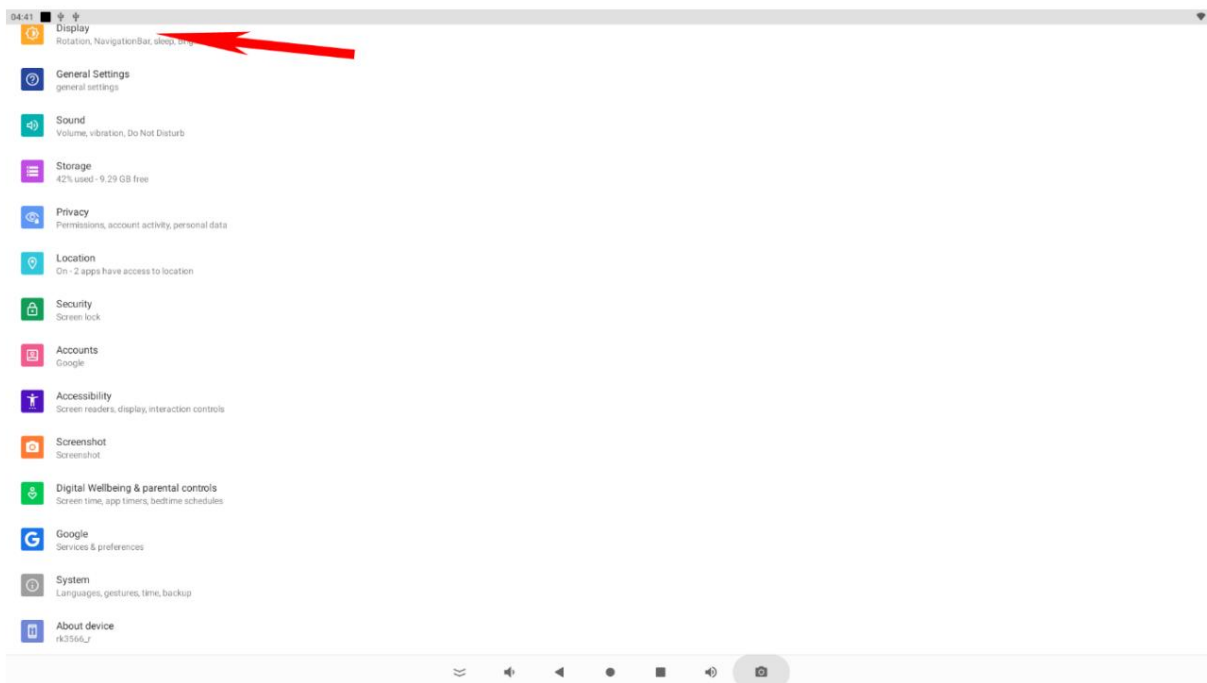
## Settings display

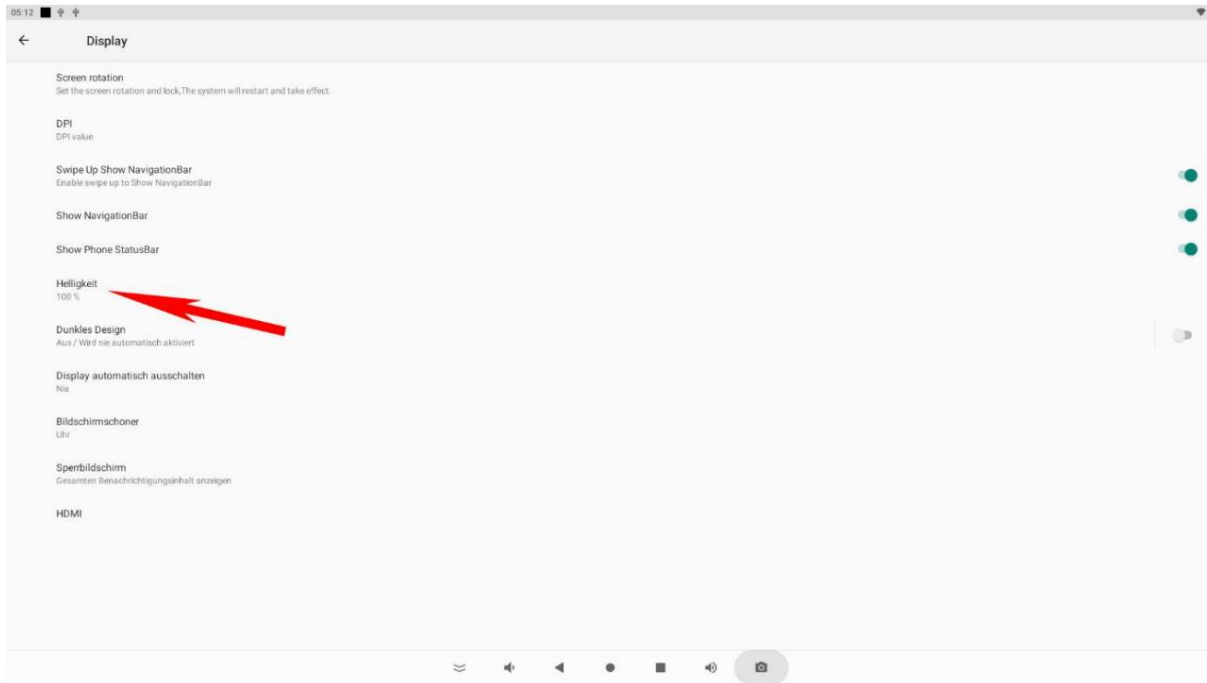
Open the Settings app

Select "Display", then click on brightness level, now you can adjust the brightness

adjust continuously. In addition to the brightness, you can also change or set the background

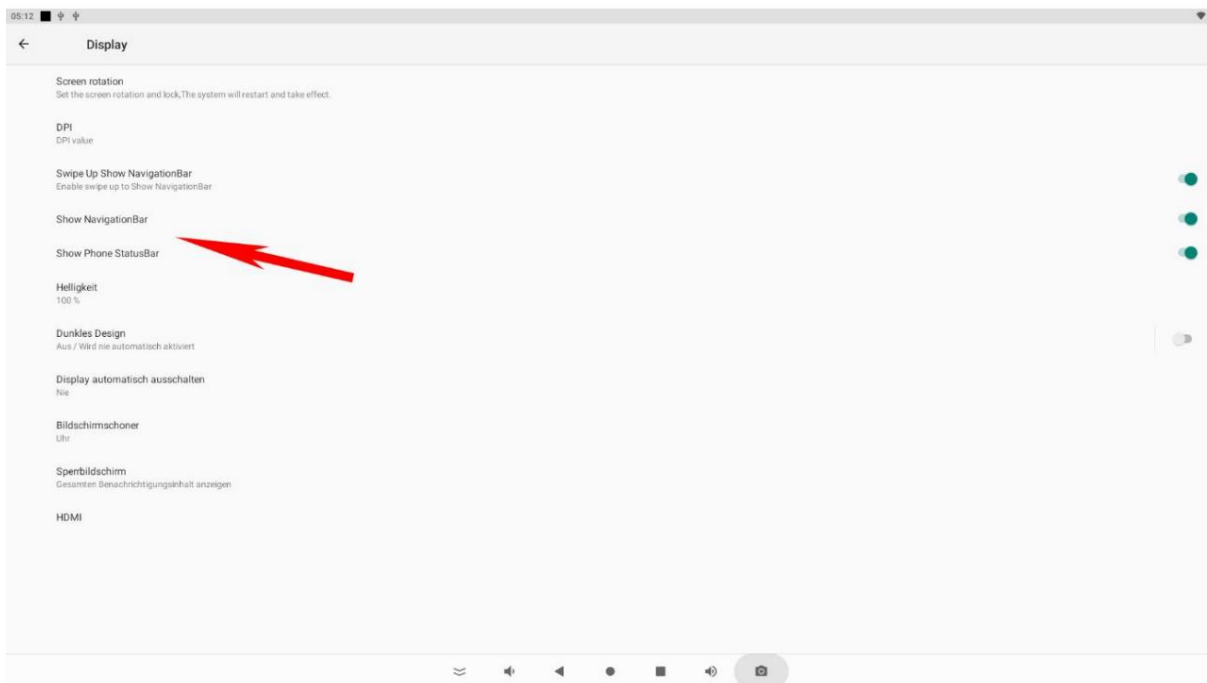
Select screen saver.





Hide navigation bar/status bar Open the  
Settings app

Select "Display", then switch "Show NavigationBar/ or Phone StatusBar" off.



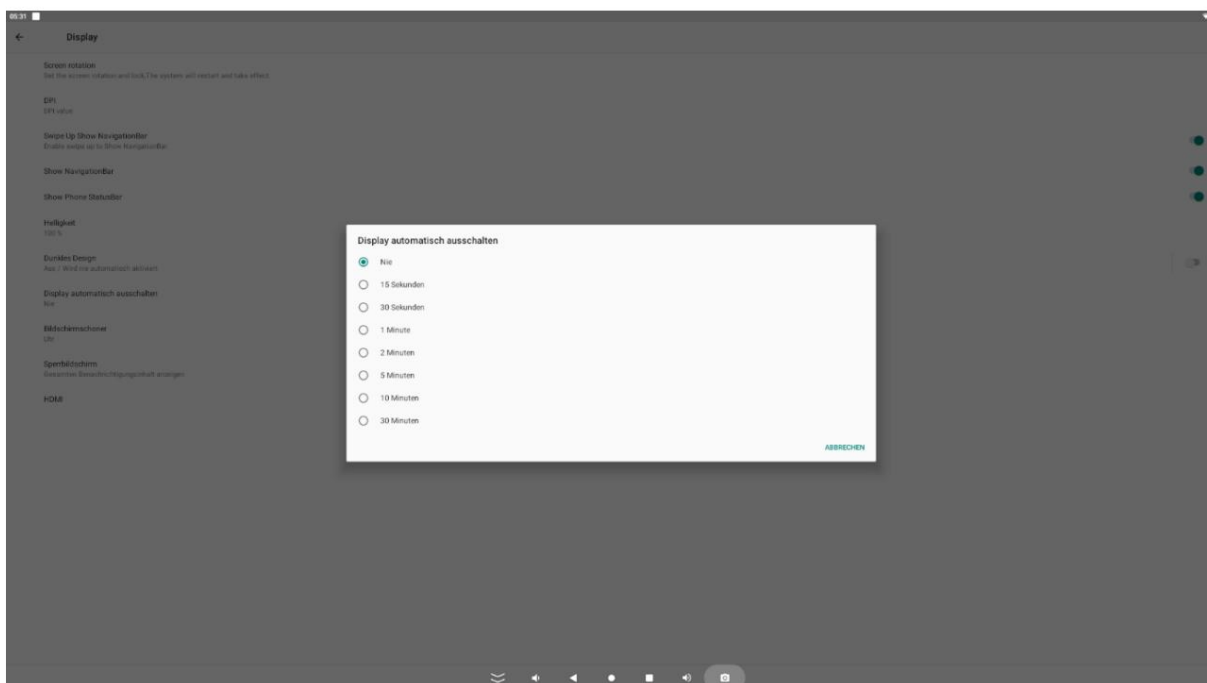
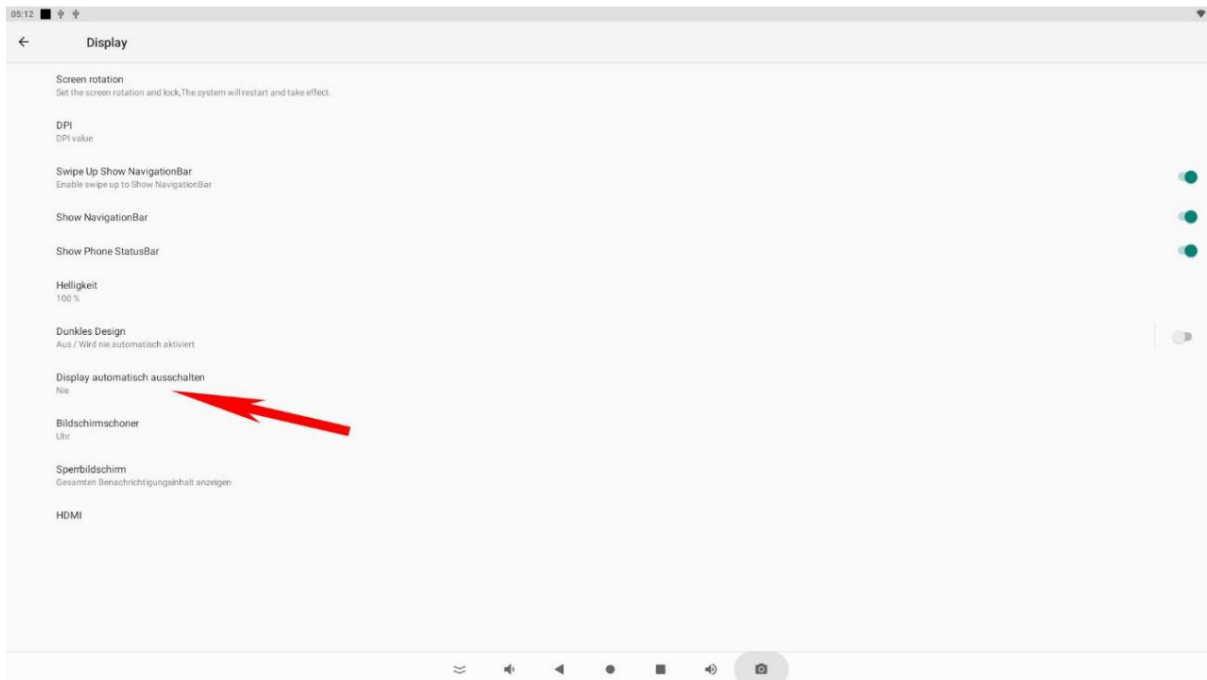
You can also operate the tablet with a mouse and keyboard. The left button is the  
"Mouse click", the right mouse button is the "Back" button

## “Automatically turn off display” settings

Open the Settings app

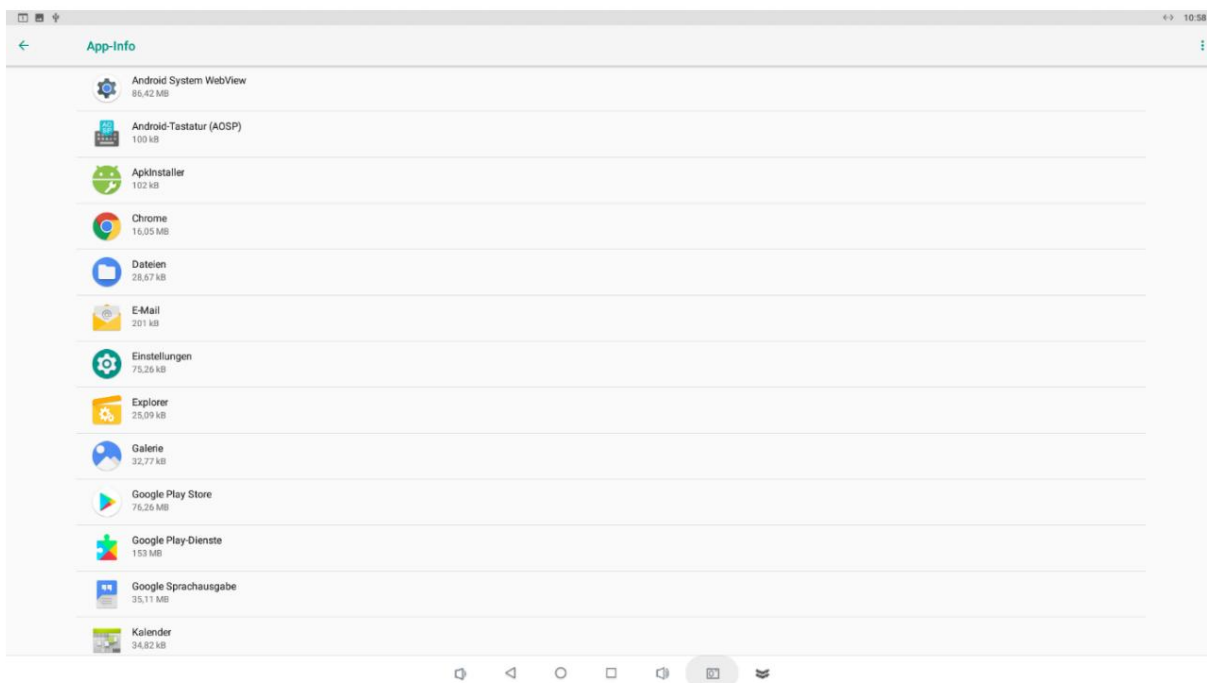
Select “Display”, then click on Advanced/Sleep, now you can

Set the display's switch-off time. By activating the menu item “Never” the screen remains continuously active until the tablet is switched off.



## Connection to Google Play Store

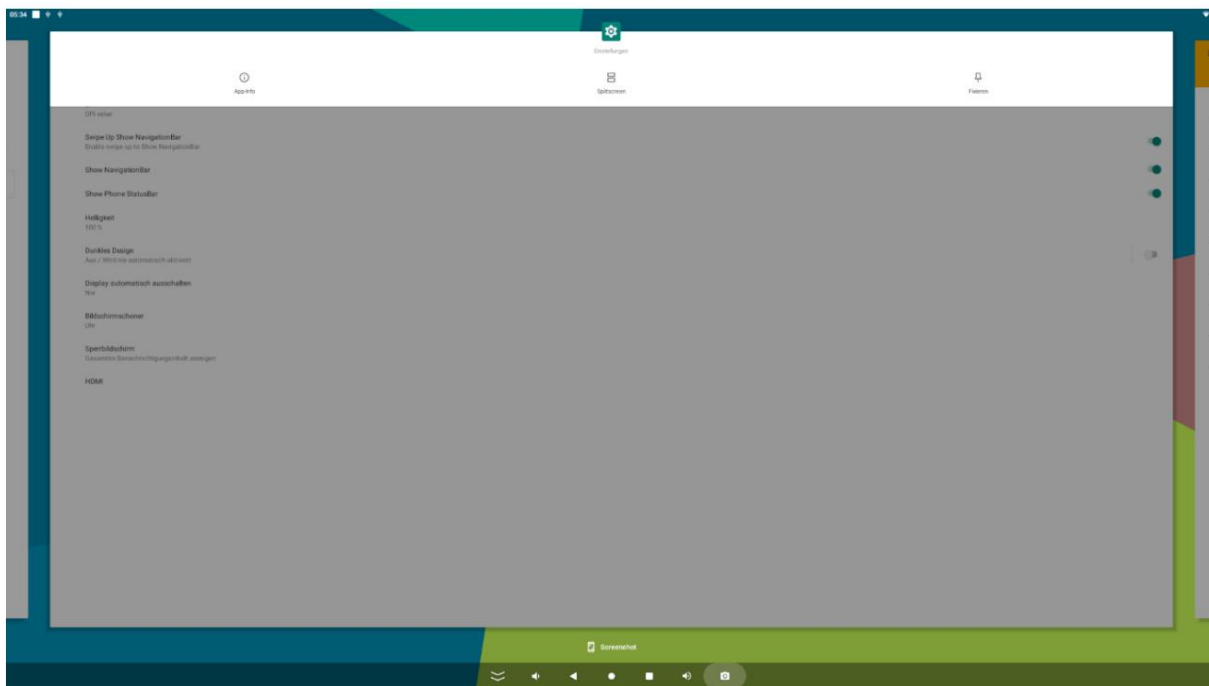
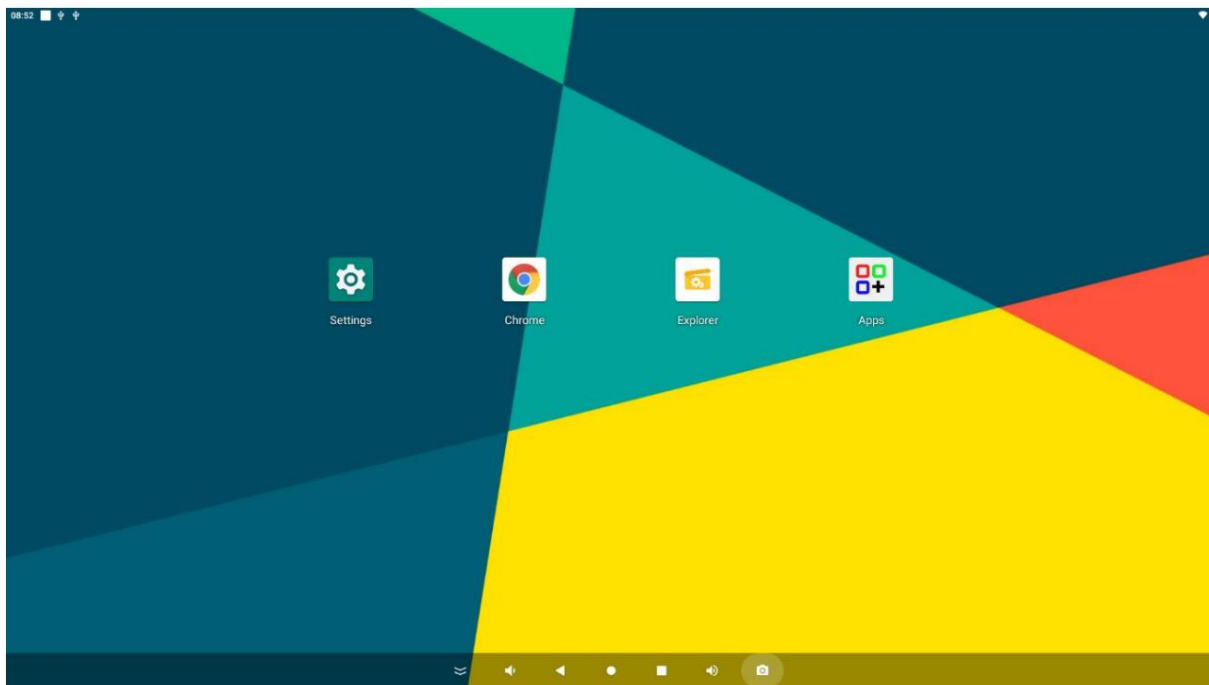
Open the Play Store app and sign in with your Google account details to install the desired apps. If you don't have an account yet, you can do so directly via the app to create a new account. If you have a problem starting the Playstore, a component (Google SystemWebView.apk) of the Google Framework is outdated and must be updated. To do this, the Chrome browser must be deactivated under Settings/Apps. so that the SystemWebView.apk becomes visible. The tablet should do this automatically after some time update, so leave it switched on and connected to the internet. This app can too from ext. Download sites such as APK Mirror. Please note that the Download from ext. Pages can be risky. We assume no liability for this!



## Quit app

Click on the rectangular icon in the bottom navigation bar. Get it afterwards

All active apps are displayed, which you can then close if you wish.



## 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. Get it afterwards

All active apps are displayed. Click on the top logo in the middle of the one you want to use APP. A menu opens. There click on split screen and select the second app with a click.

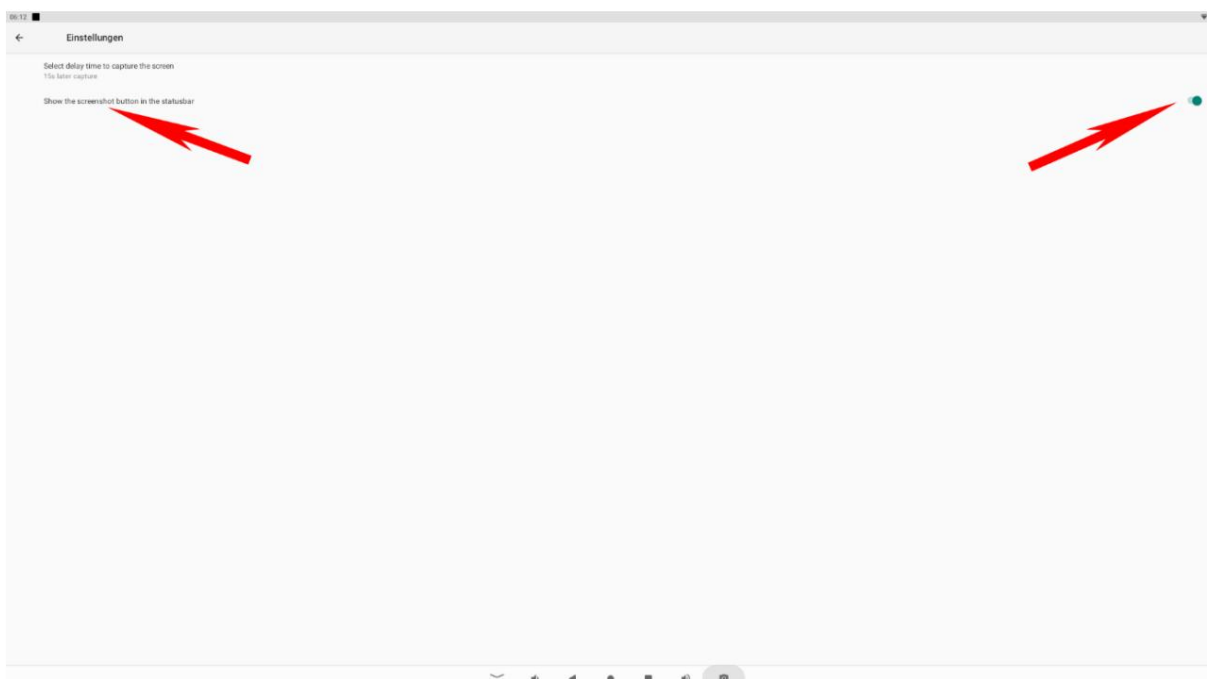
These must be opened beforehand so that you can select them.

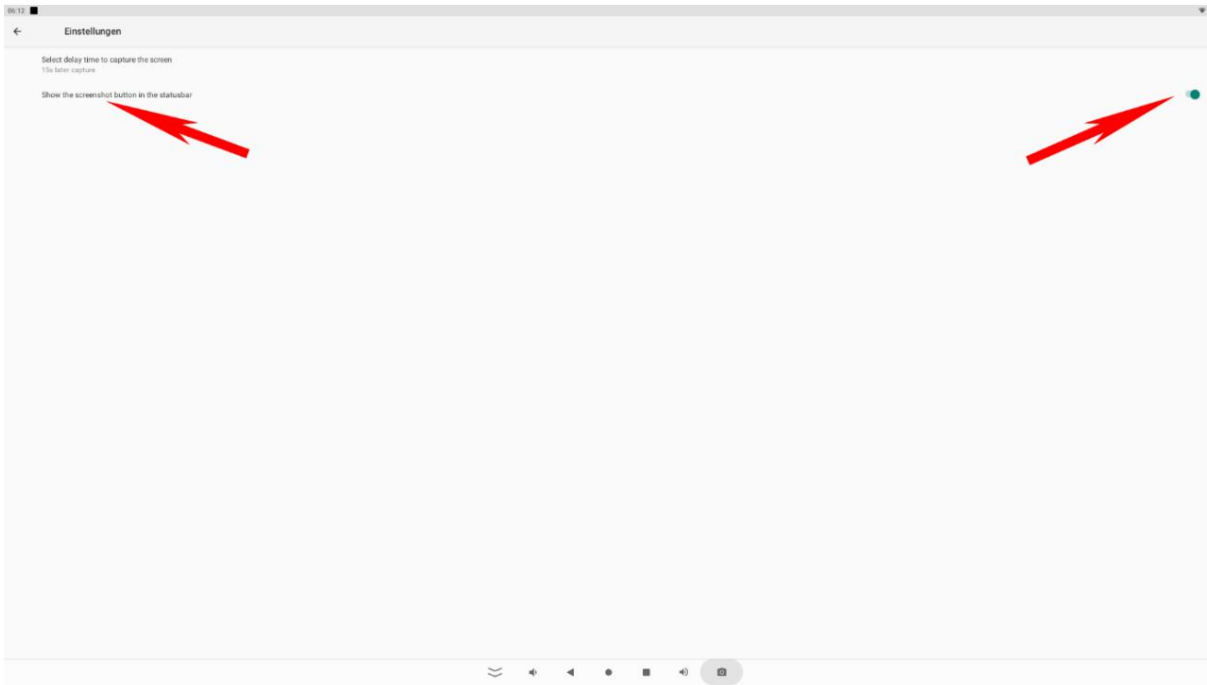
## Take a screenshot

Under Settings you will find the item "Screenshot". When you click, a settings window opens.



Here you can switch on the function in the navigation bar.









## Update Firmware:

To update the firmware, the tablet must be connected to a USB Type-A to Type-A male USB cable be connected to the PC. Before you connect it, please install the Rockchip drivers via the tool Install Rockchip DriverAssistant.

**Note: Please check that no other ADB drivers are installed on the system are. This can lead to errors in the recognition of the tablet.**

To flash the firmware you need AndroidTool\_Release v5.1.1. Please write our support to receive the firmware and the download link, support@allnet.de.

Here are the individual steps:

1. Install the "Release\_DriverAssistant" driver.
2. Launch Android Tool
3. Connect the USB port to the PC and tablet and connect the power adapter
4. You will now see an ADB device in the Android tool
5. Press the Firmware button under the "Upgrade Firmware" tab and select the Linux/Android image
6. Then press the "Switch" button
7. The tablet should now turn off the screen and there should be a loader device in the Android tool stand, takes approx. 30 seconds. If that doesn't work, there is a small hole next to it Power connection on the tablet. Use a bent paper clip to feel the switch behind it and at the same time apply power. Hold the switch pressed for approx. 3 seconds.
6. Then press the "EraseFlash" button, only necessary in the event of errors or when changing the system
7. When the process is finished, you can click the Upgrade button and the image will flash the Linux/Android onto the system.
8. The device restarts automatically after the update process.



THIS

CE-Declaration of Conformity



Germering, 19th of July, 2019

**ALLNET High Performance Display 14,16,21,24,32 inches**

**ALL-SD24RK3588A12B/4G, ALL-SD24RK3588A12W/4G, ALL-SD32RK3588A12B/4G, ALL-SD32RK3588A12W/4G, ALL-SD14RK3588A12B/8G, ALL-SD16RK3588A12B/8G, ALL-SD21RK3588A12B/8G**



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. The ALLNET **ALL-SDxxRK3588A12x/xG** conforms to the Council Directives of

2014/53/EU. This equipment meets the following conformance standards:

**Safety: EN62368-1:2020+A11:2020**

**Health:ENIEC62311:2020**

**EMC: ETSIEN301489-1V2.2.3(2019-11)**

**ETSIEN301489-3V2.1.1(2019-03)**

**ETSIEN301489-17V3.2.4(2020-09)**

**EN55032:2015+A11:2020;EN55035:2017+A11:2020**

**ENIEC61000-3-2:2019;EN61000-3-3:2013+A1:2019**

**Radio: ETSIEN300328V2.2.2(2019-07)**

**ETSIEN301893V2.1.1(2017-05)ETSIEN300440V2.2.1(2018-07)**

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, July 19, 2019

  
Wolfgang Marcus Bauer  
CEO