

**User manual**  
**for the Android operating system**  
**of Avtek TouchScreen 5**  
**interactive displays**



**Avtek**

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## Introduction

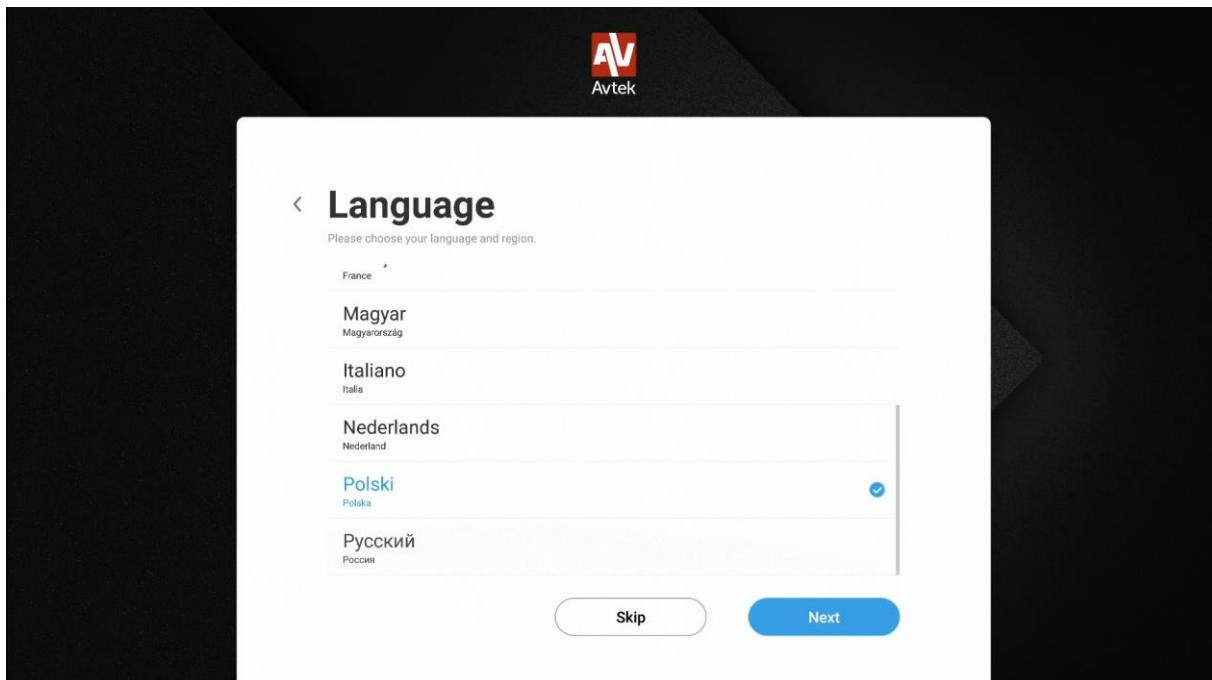
The operating system installed on Avtek interactive displays is a modified version of the popular Android. It both supports the basic operation of the display monitor (e.g. switching between input sources or controlling the sound volume) as well as offers a number of useful features and utilities, which are valued both by business users and by user of the education sector, each of which has been presented in this manual.

The device is equipped with a touch screen and can be operated simply by touching the display screen surface.

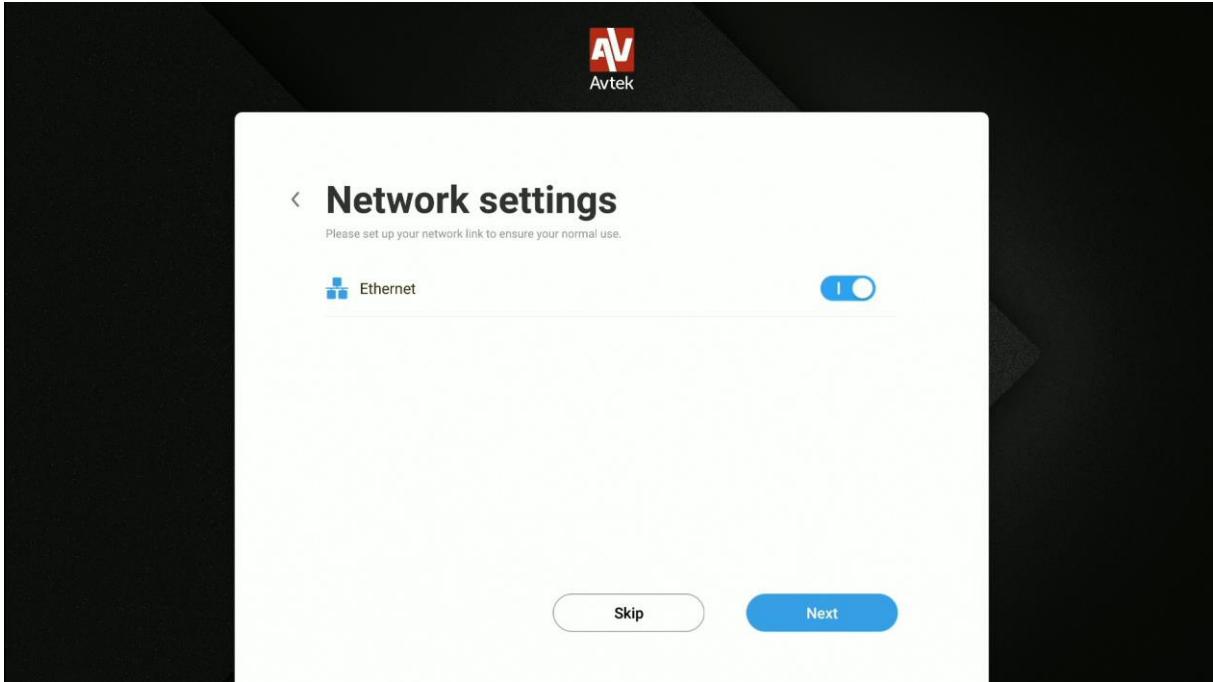
## Starting the system for the first time

Upon starting the display for the first time, the user can set up some of its most basic settings.

1. Select the system language.

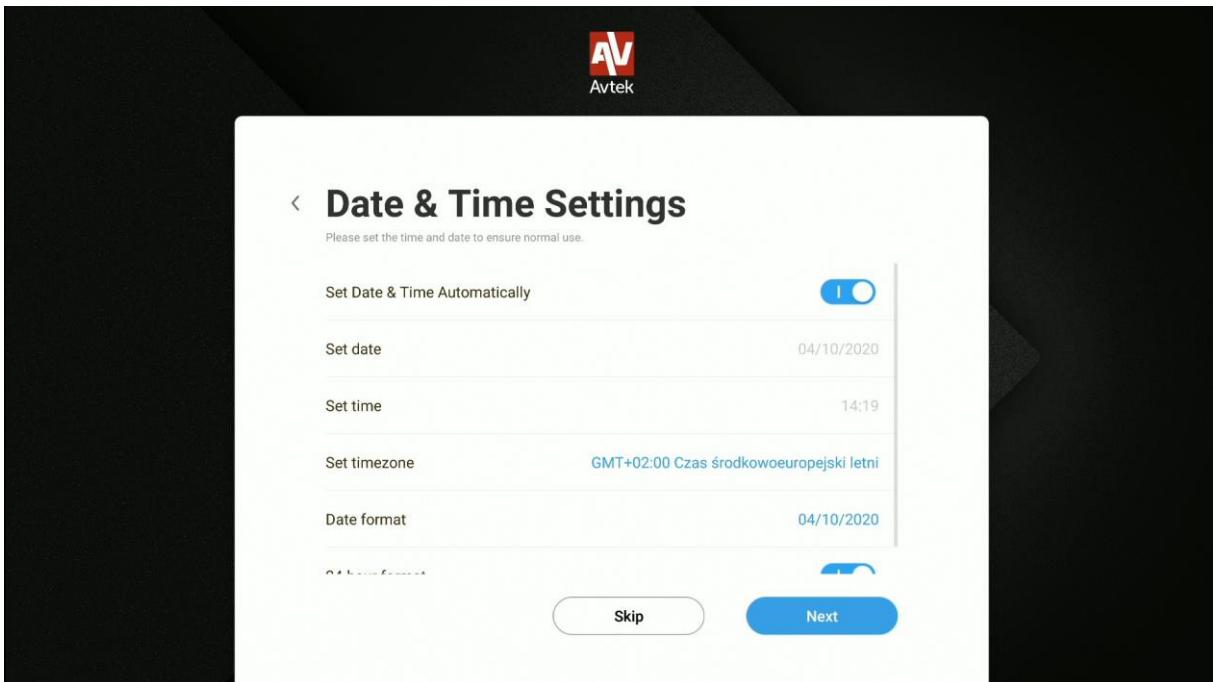


2. Set up the connection with local WiFi or Ethernet local area network (LAN) to access the Internet.

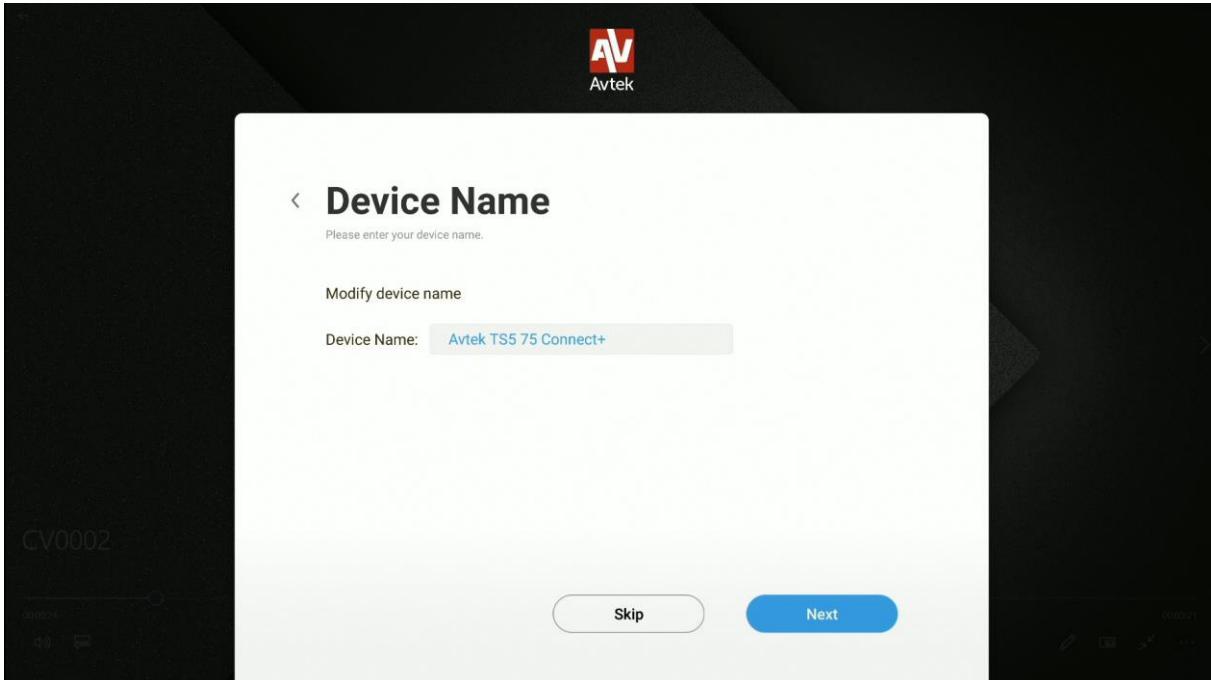


**NOTE:** Before connecting the display to your local wireless network (WiFi), make sure the WiFi dongle or WiFi module are correctly connected to the display.

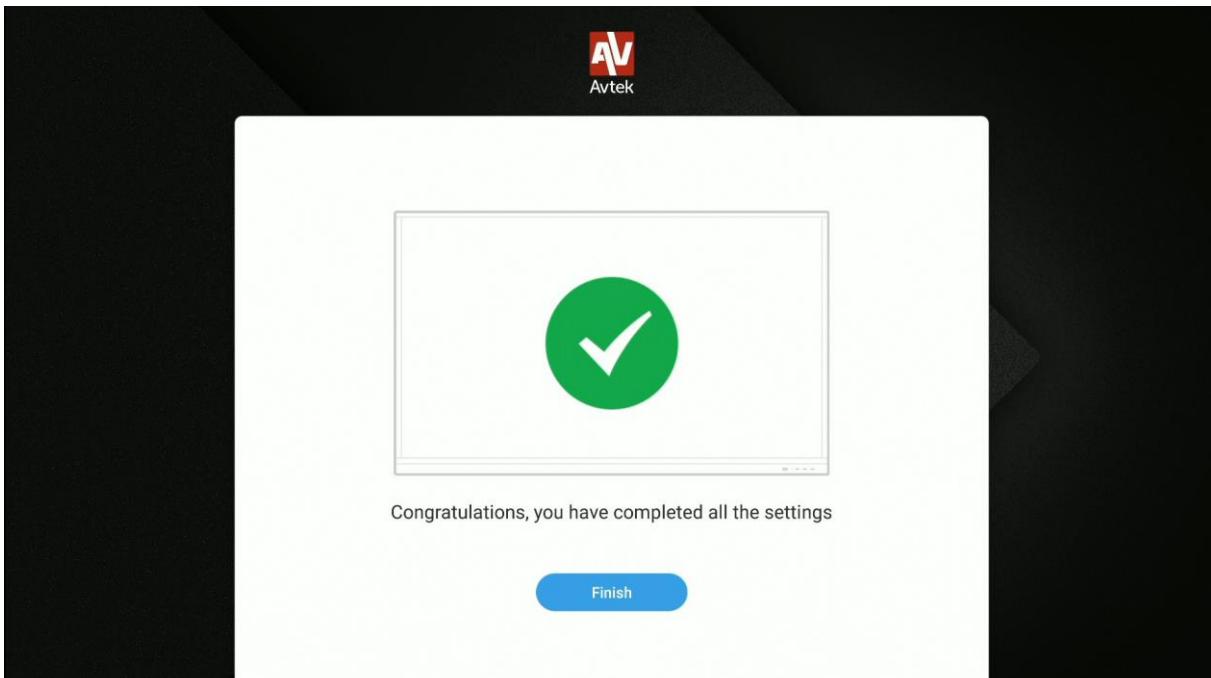
3. Set up the system date and time.



4. Give your display a name.

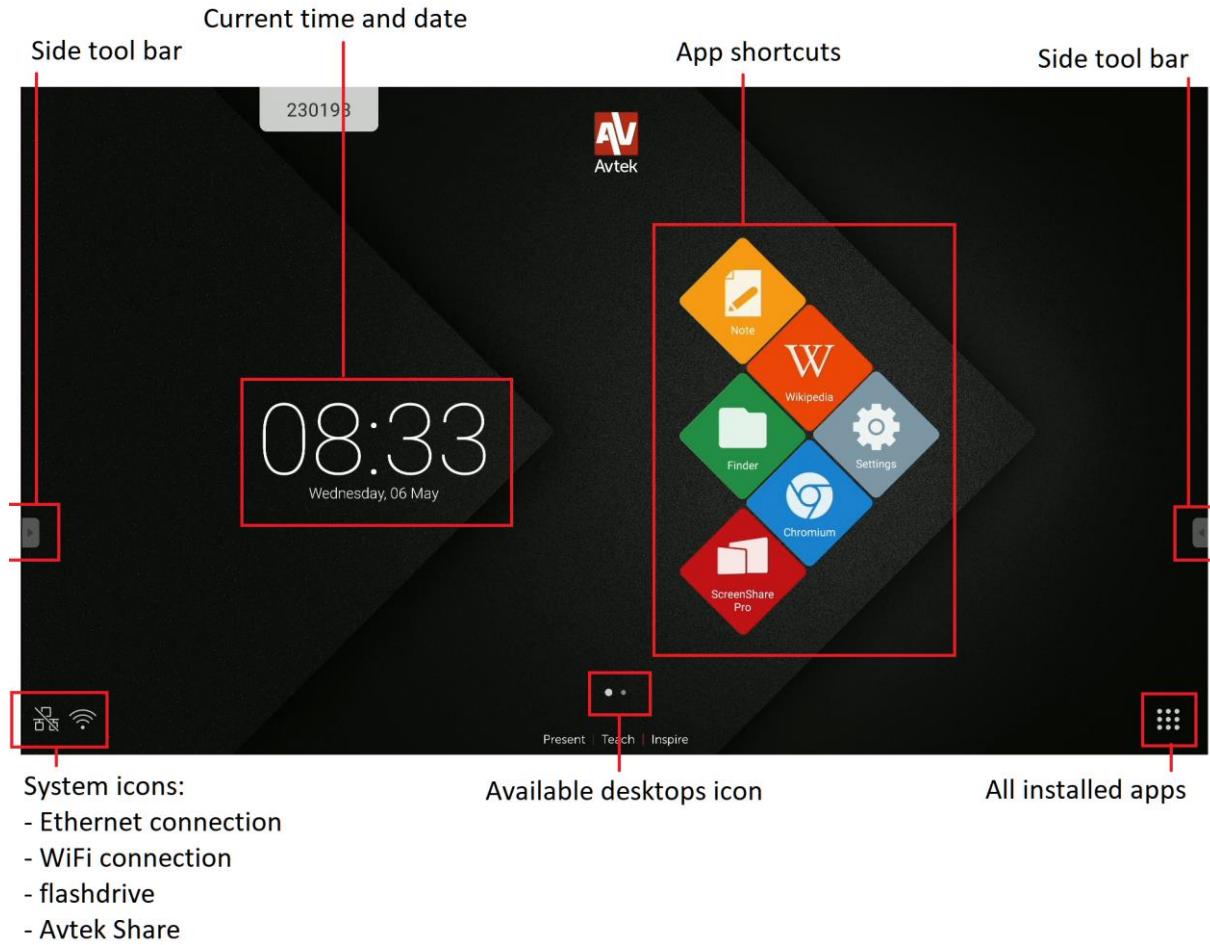


5. You can now start using your display.



## Basic operation

Each time you start up your display, the home screen will be displayed automatically.

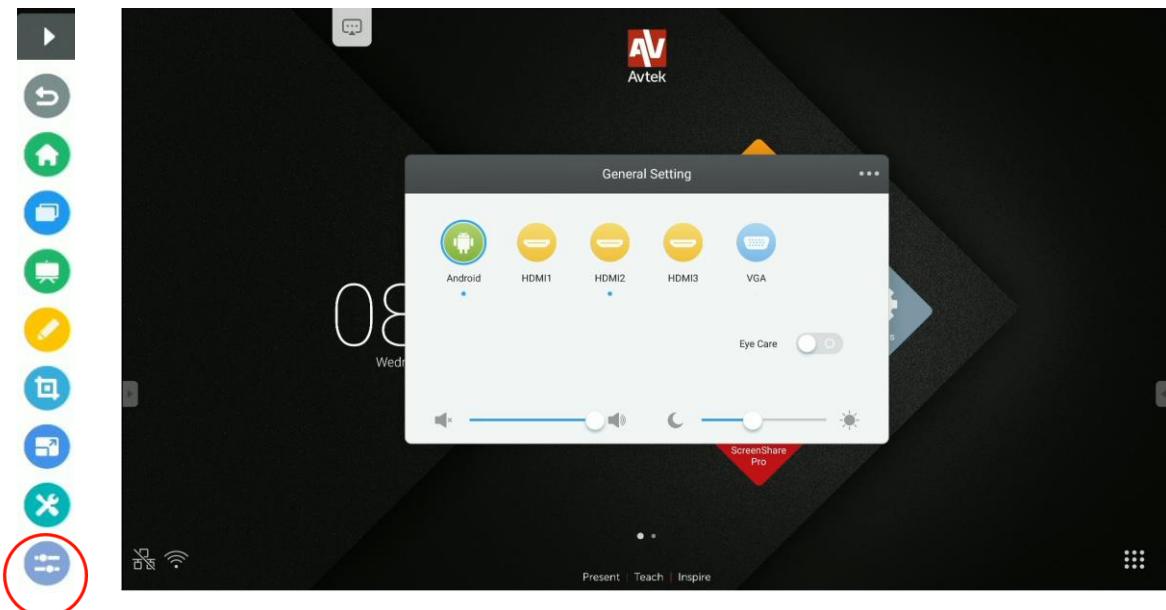


To navigate the main menu:

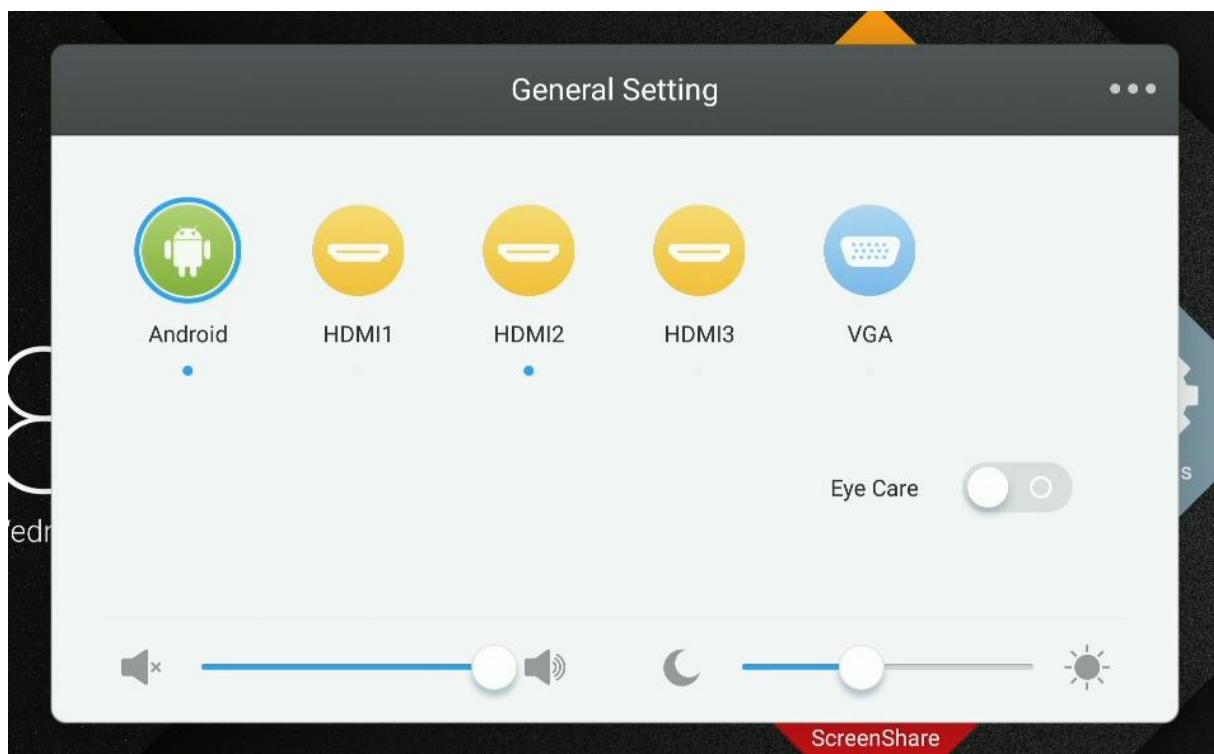
- touch the item you want to use, or
- use one of the side toolbars.

## General settings

To set up general settings, touch the screen and slide down, or select the **General Setting** icon from a side toolbar.



**Select source:** on the **General Setting** home screen all image sources will be shown as icons. The sources that are currently active will be highlighted with a blue dot ●. To change a source, simply touch the icon of the one you want to use.



**NOTE:** PC will only be available as an image source if the PC module has been connected correctly to its port.

**Eye Care:** It is a known fact that blue light waves, which are a component of all colours of light emitted by device displays, can cause eye fatigue and even lead to retina damage and eventually contribute to loss of eyesight. Eye Care is a feature designed to relieve the user's eyes by reducing the intensity of blue light waves emitted by the display.

To enable the Eye Care feature, move its slider to the right.

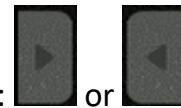
**Adjust audio volume:** to adjust the audio volume, touch and move the volume control slider.



**Adjust brightness:** to adjust the brightness of the display, touch and move the brightness control slider.



## Side toolbar



To display any of the side toolbars, touch one of the icons: or visible at the left and right screen edges.



## Basic operation

To hide the toolbar, touch

To go back to the previous screen, touch

To go back to the home screen, touch

To show all running apps, touch

To go directly to **Note**, touch

To open the **Annotation** menu, touch

To open the **Screenshot** menu, touch

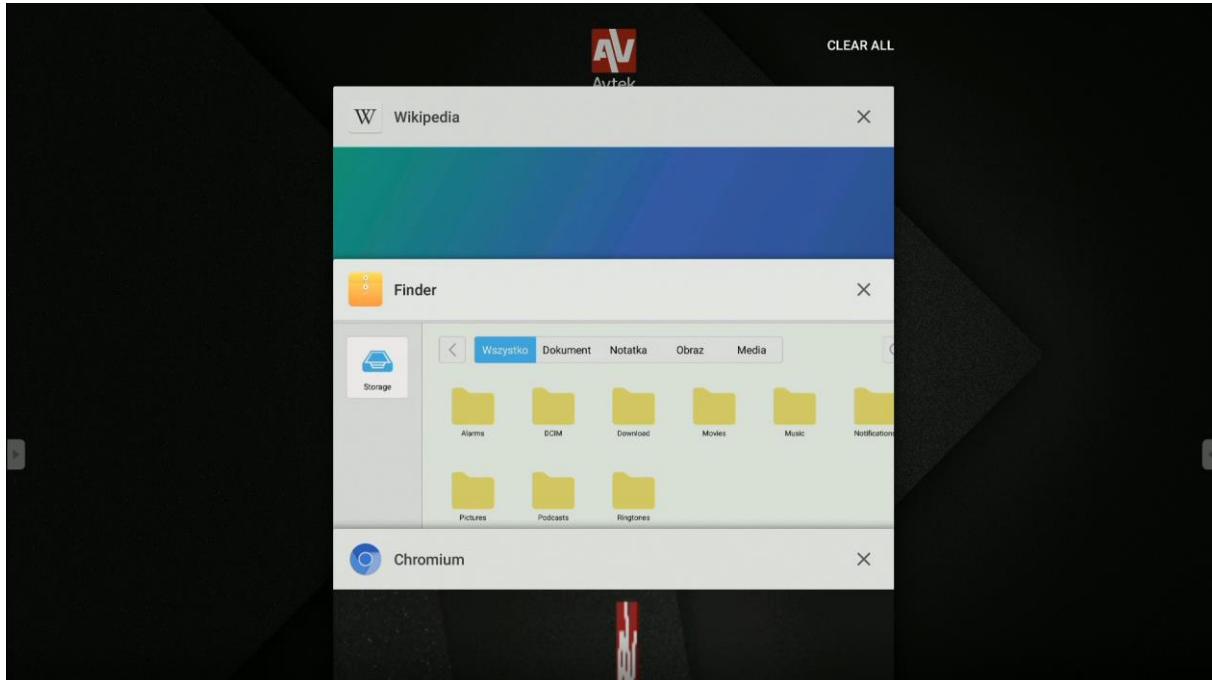
To freeze the screen and zoom in on a selected part of the still image, touch

To open the **Auxiliary tools** menu, select

To open the **General Setting**, touch

## Recent tasks

To show all apps that are currently running in the background, touch



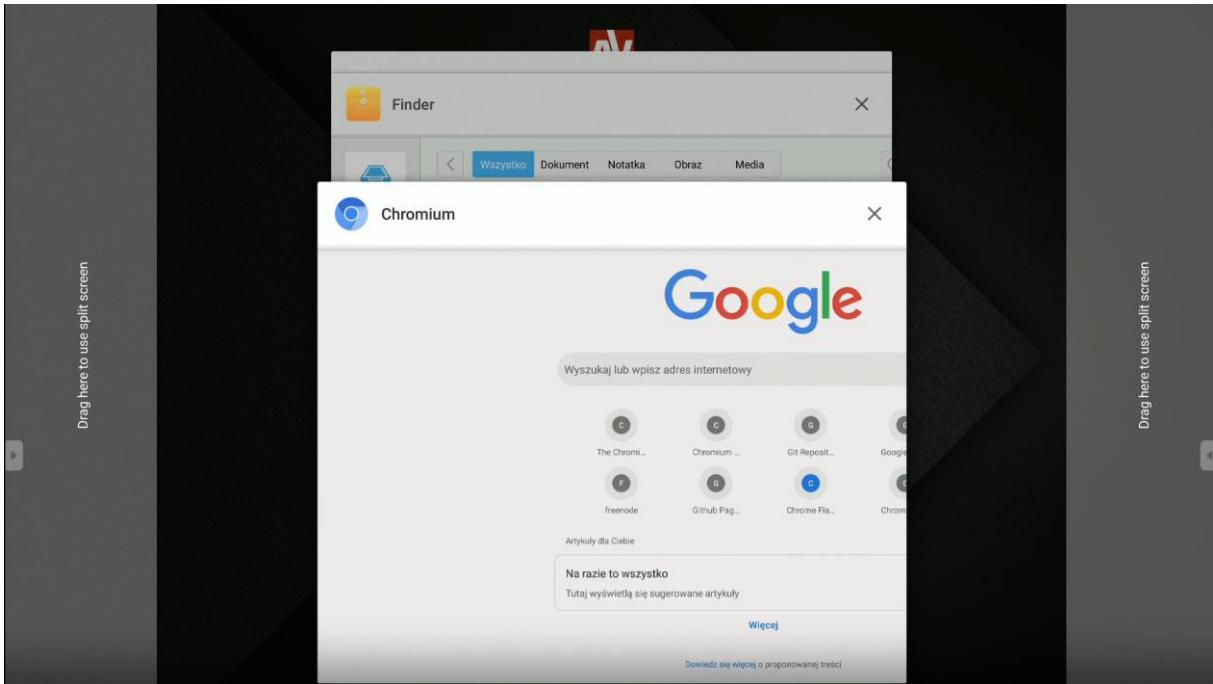
- The list of apps can be scrolled by touching its items and dragging them up or down.
- To select an app, touch its icon.
- To remove an app from the list (close it), flick it to left or right.
- To clear the entire list, scroll it up and touch **CLEAR ALL**

## Split screen mode

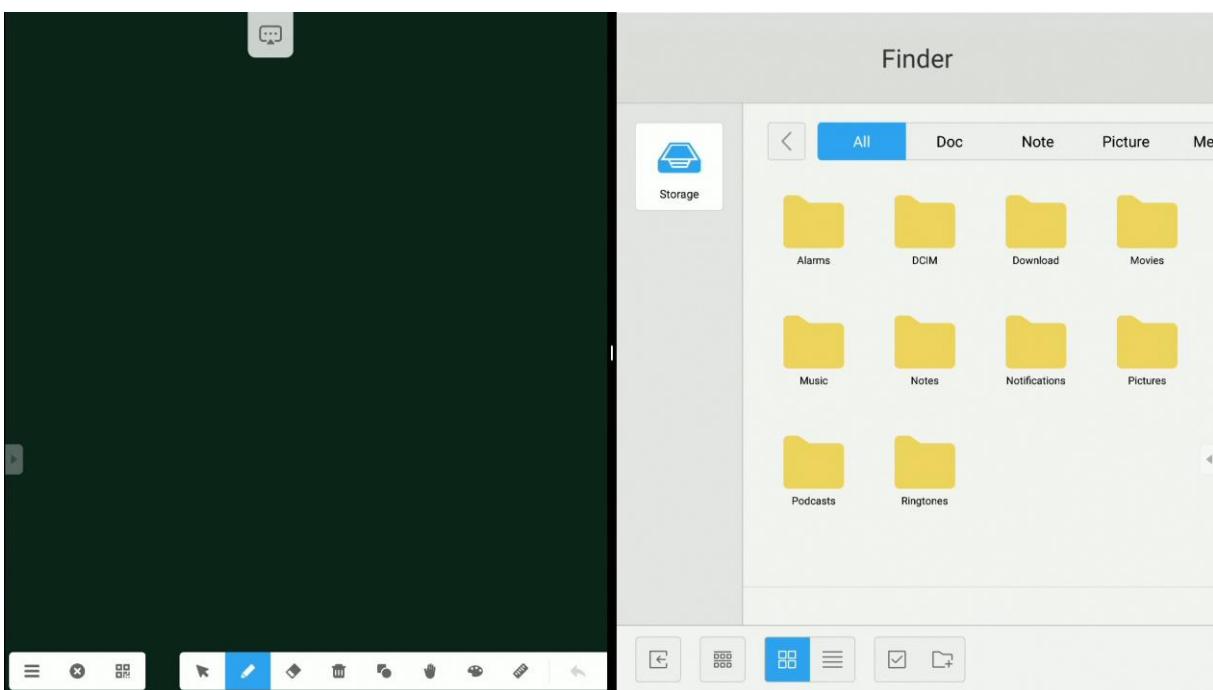
To run and show two apps side by side:



1. Open a side toolbar (touch or ).
2. Select **Recent tasks**
3. TOUCH AND HOLD the selected app.
4. Drag the app to one of the highlighted panes on the sides of the screen.



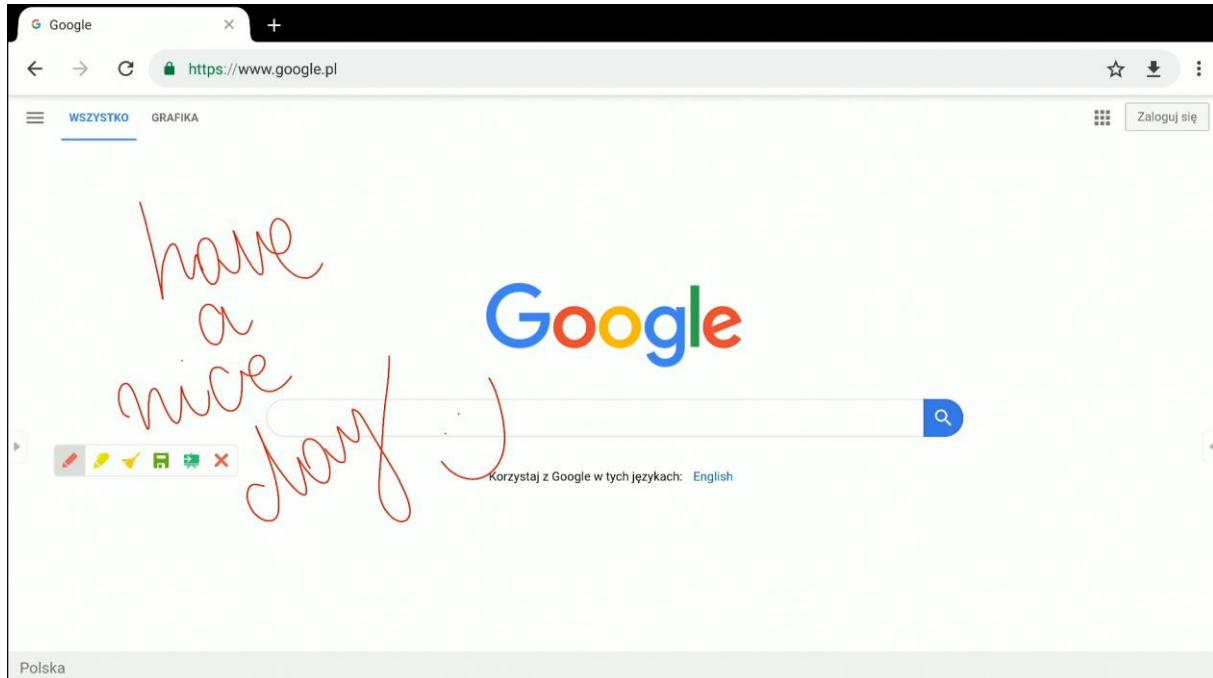
5. Select another running app to display it in the other half of the screen.



## Annotation menu

To open the **Annotation** menu, touch 

Annotation tools enable making notes in the image displayed from any source.



- To make notes on the screen, touch the **Pen** icon. To change the colour of writing, touch the **Pen**  icon repetitively.

- To write with a semi-transparent highlighter, touch the **Highlighter** icon. To change the highlight colour, touch the **Highlighter**  icon repetitively.

**NOTE:** *To erase your notes, you can touch the screen with your entire palm, which will activate the **Eraser** mode.*

- To clear all your annotations at once, touch the **Broom** icon. 

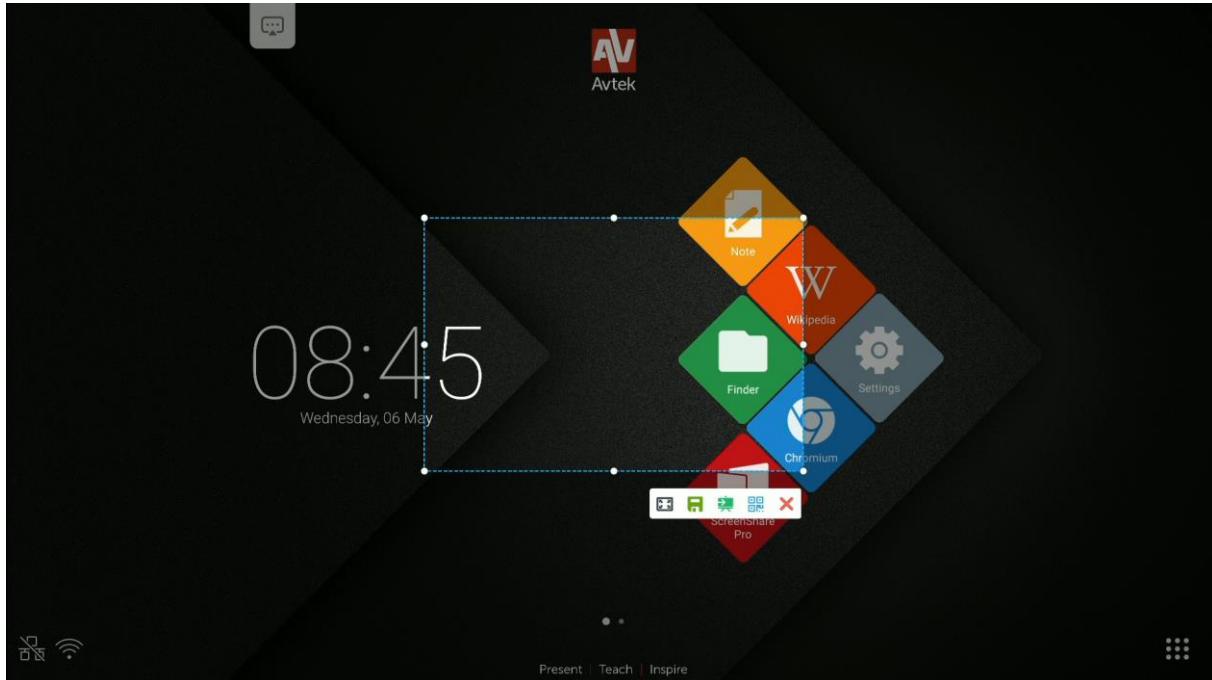
- To save all your annotations in a PNG image file, touch the **Save**  icon.

- To send the entire screen, including the annotations, to Note, touch the **Note App** icon. 

- To disable the Annotation tool and the notes, touch the **X** icon. 

## Screenshot menu

To open the Screenshot menu, touch



- Touch to fill the entire desktop with the screenshot area.

**NOTE:** To customise the area covered by the screenshot to suit your preferences, touch and hold its white handlebar icons and then drag them as required.

- To save the part of the screen included in the screenshot in a PNG image file, touch
- To send the screenshot to the Note app, touch
- To create a QR code, touch

Scanning the QR code with a mobile device's camera will result in downloading the screenshot to the device's memory.

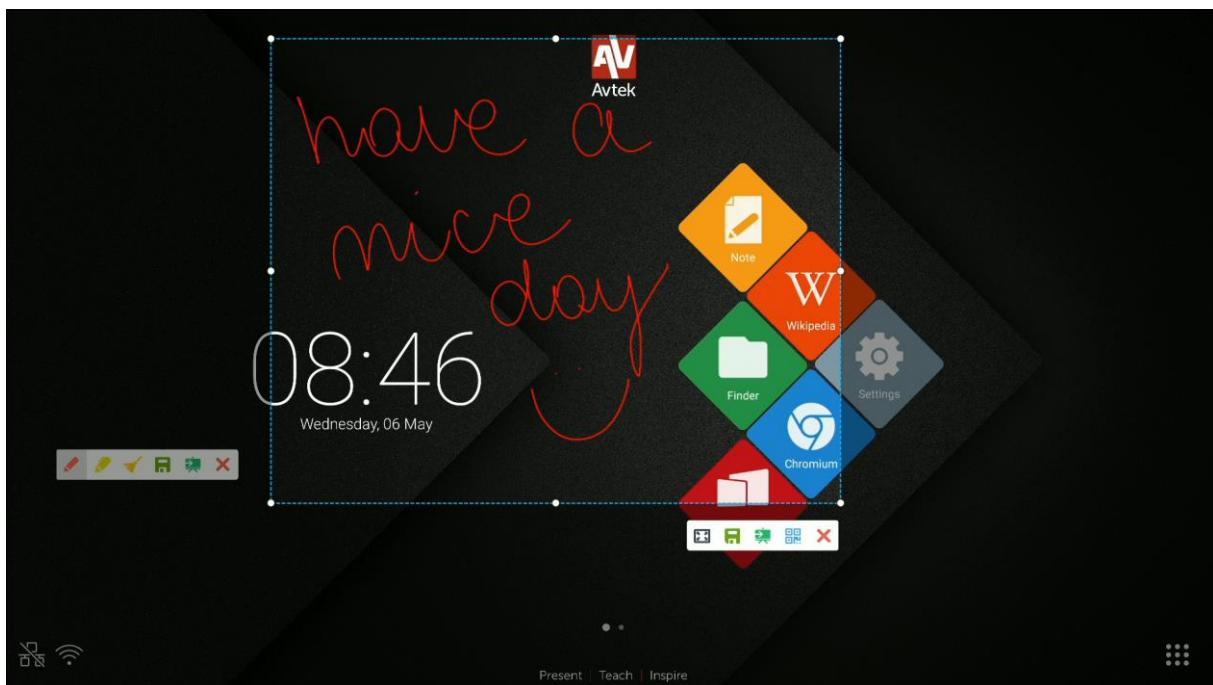
**NOTE:** For the QR code to work, the mobile device used to scan it must be connected to the same WiFi network as the interactive display.

**NOTE:** Click the QR code to zoom it in. That will make it possible to scan the code even from a distance.

- Touch to exit the Screenshot menu.



**NOTE:** You can also make a screenshot of a part of the screen that contains some notes made with the **Annotation** menu. To do this, first enable the **Annotation** menu and use it to make the notes, and then re-open the side toolbar and open the **Screenshot** menu from it.



## Freeze/Zoom

To freeze the screen and zoom in on a selected screen part, touch



- Touch to zoom in.
- Touch to zoom out.
- Touch to revert to the original non-zoomed screen view.
- Touch to disable the **Freeze/Zoom** mode.

## Auxiliary tools

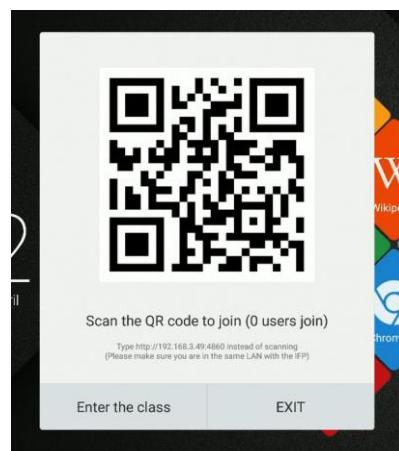
To open the **Auxiliary tools** menu, select 



- Select  to activate the **SpotLight**. You can use this feature to focus the attention of the audience on the part of the screen you want them to look at.
- Touch  to activate the **CountDown**.
- Touch  to activate the **StopWatch**.
- Touch  to activate the **AirClass** mode.

### How to use AirClass

Touch  to activate AirClass, an audience response feature. A dialog box with a QR code will appear.



In order to be able to use the AirClass feature:

1. Connect the interactive display to an available WiFi network.
2. Enable WiFi on the devices which will be used by the audience to respond to questions. Next, connect those devices to the same WiFi network to which the interactive display is connected.

**NOTE:** All mobile devices used by the audience must be connected to the same WiFi network.

3. Scan the QR code or copy the URL address displayed under it into the address bar of your web browser.
4. Input your name and press Enter to join the class.
5. Touch **Enter the class** to start the session.

**NOTE:** AirClass is a feature that can only be used to submit **answers**. The **questions** that AirClass is used to answer may be presented to the audience e.g. as Note slides, annotations made on images or may be spoken out by the presenter.

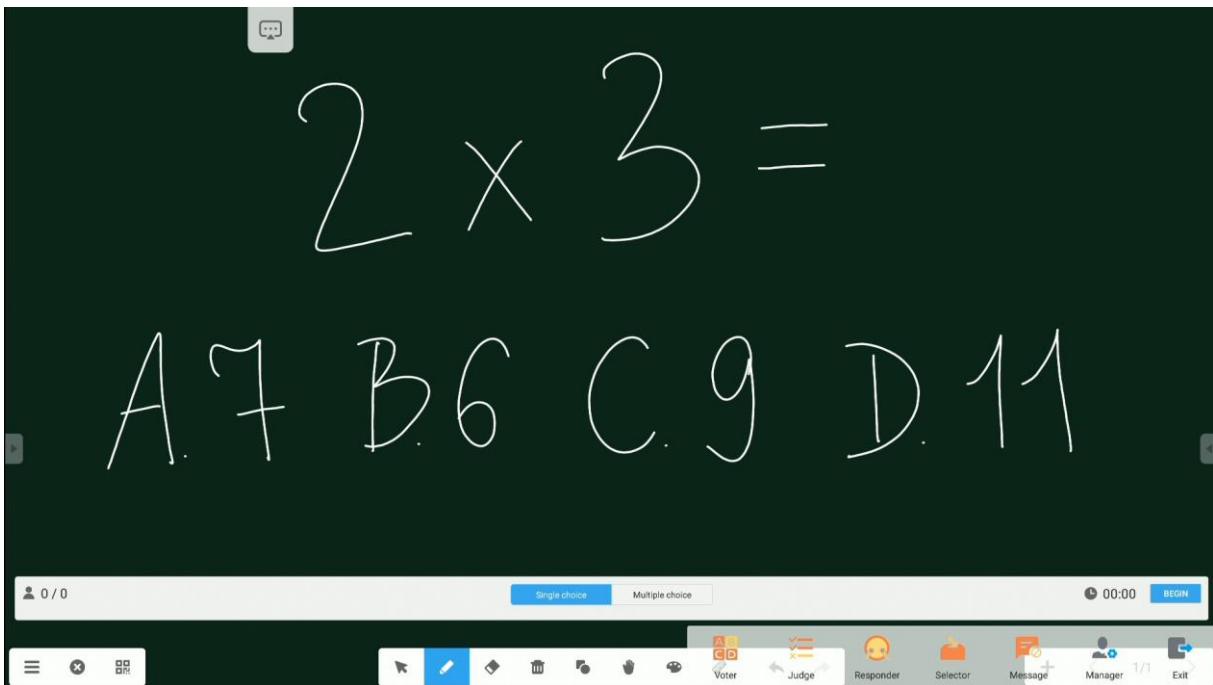


AirClass can be used in the following modes:

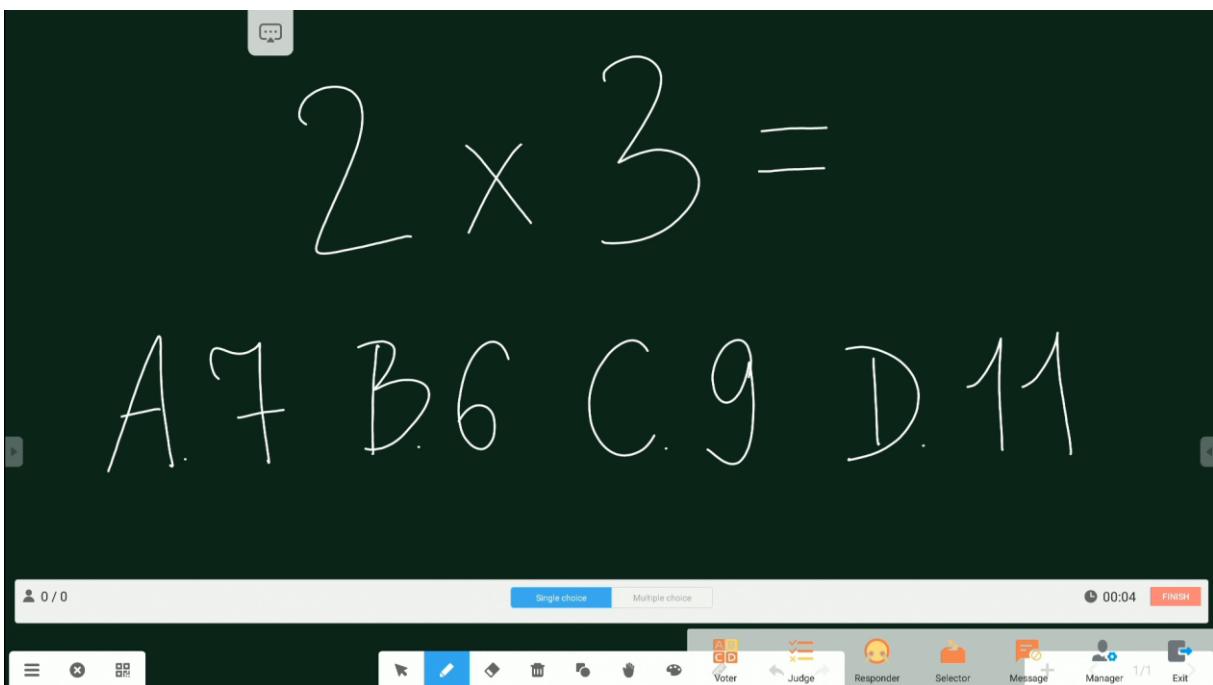
-  **Voter (Poll)**, which can be conducted either in a single choice or a multiple choice mode.
-  **Judge (True/False)**,
-  **Responder (Winner Takes All)**, where the first person who responds using their device is the winner.
-  **Selector (Pick Audience)**, where a random user – or multiple random users – are selected from all the audience logged in.
-  **Message**, which enables/disables sending comments by users.
-  Touch this icon to:
  - display the QR code again,
  - export results in XLS format,
- Touch  to exit AirClass.

### ***Voter (Poll)***

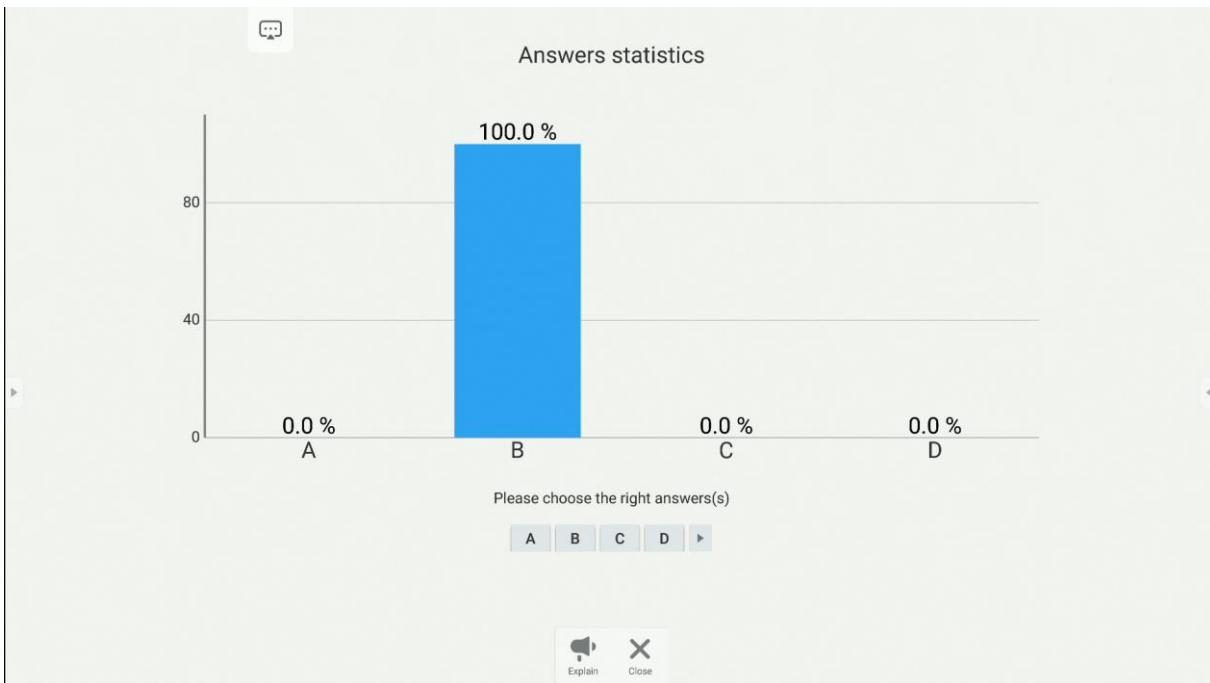
Scenario example: A question is asked using Note, and the answers are collected using the single-choice Voter mode.



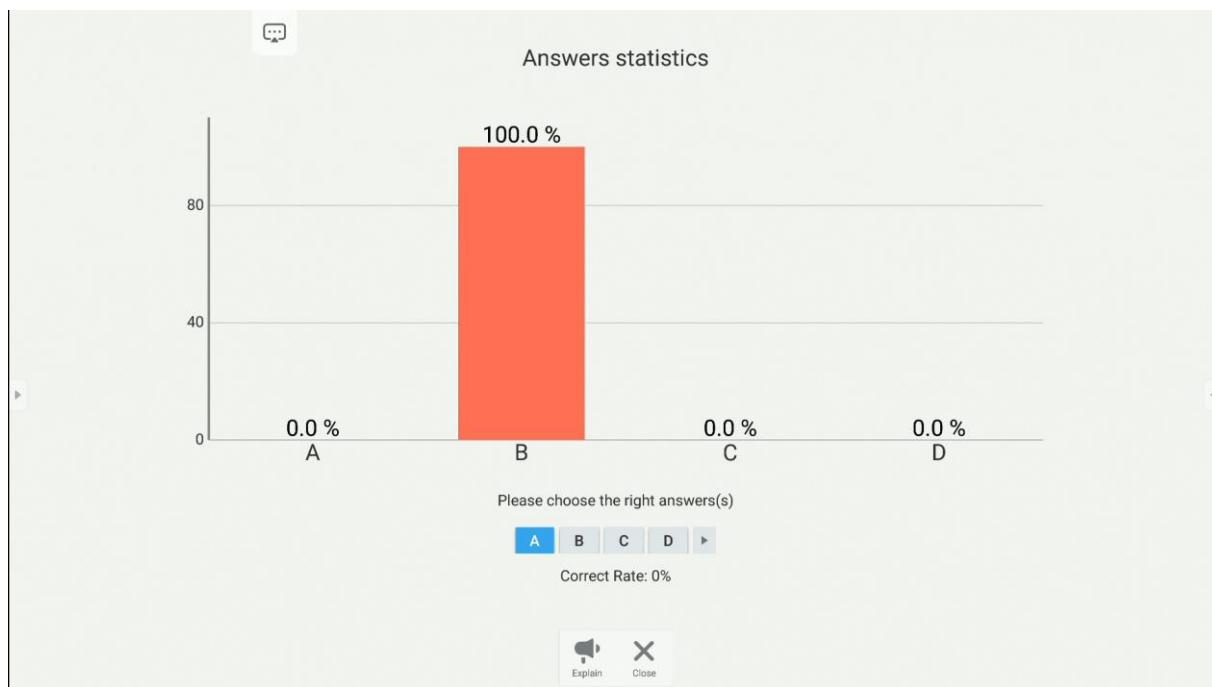
1. To start collecting answers (votes) from the audience, click **Begin**. Names of the users who have submitted their answers (votes) will be marked with blue icons on the list.



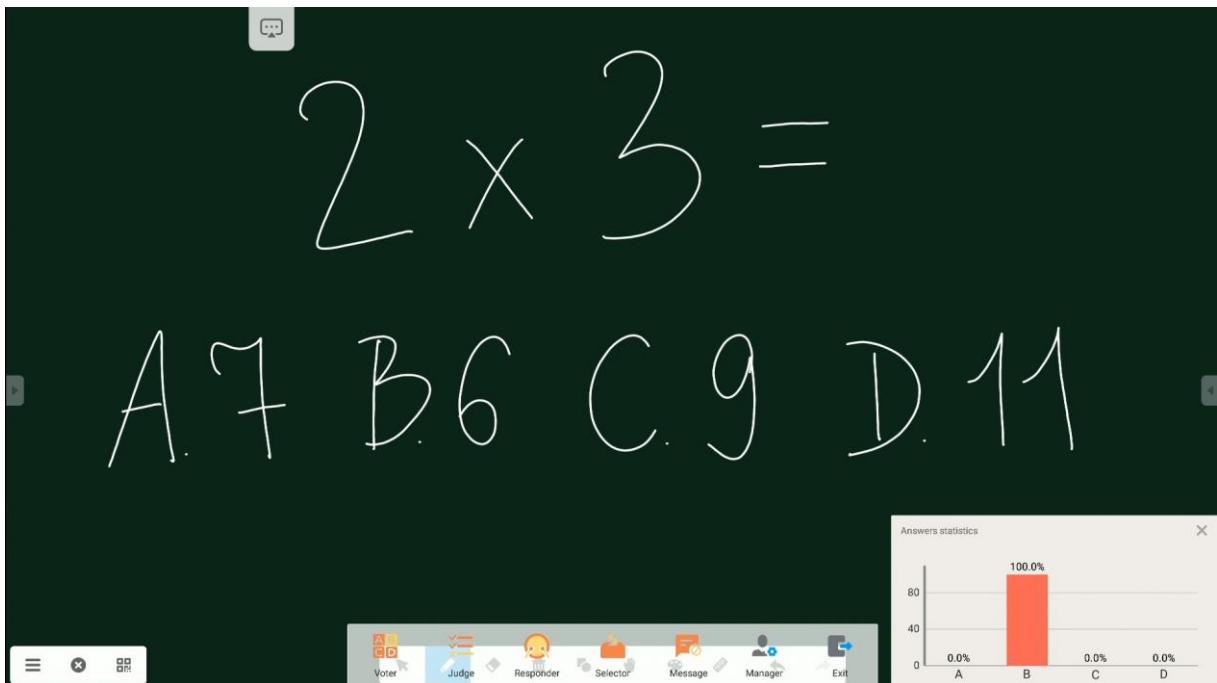
2. To end accepting answers, click **Finish**. The answers (votes) statistics screen will appear.



3. The correct answer can be indicated here as well.



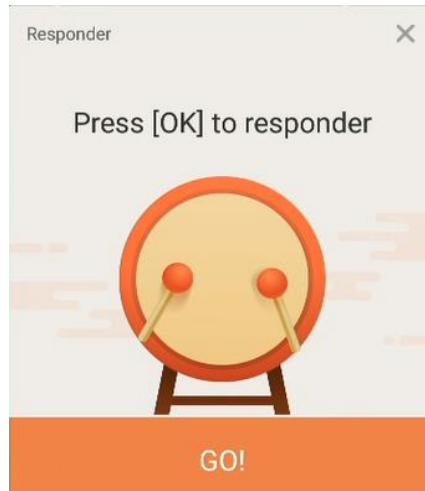
4. Clicking the **Explain** button will result in returning to the chalkboard screen. In this view, users will be able to see the graph of the answers (votes) submitted while listening to the presenter's comments and explanations.



### **Judge (True/False)**

This mode is similar to the Voter mode, except that it is intended for quick “true or false” polls.

### **Responder (Winner Takes All)**



The first user from the audience who responds wins and his or her name is displayed.

The Responder mode can be used e.g. in games where only the first participant to respond is allowed to answer, or where the first one who responds becomes the winner.

## **Selector**

In this mode, the app will list one or more participants from all the connected users in the audience.



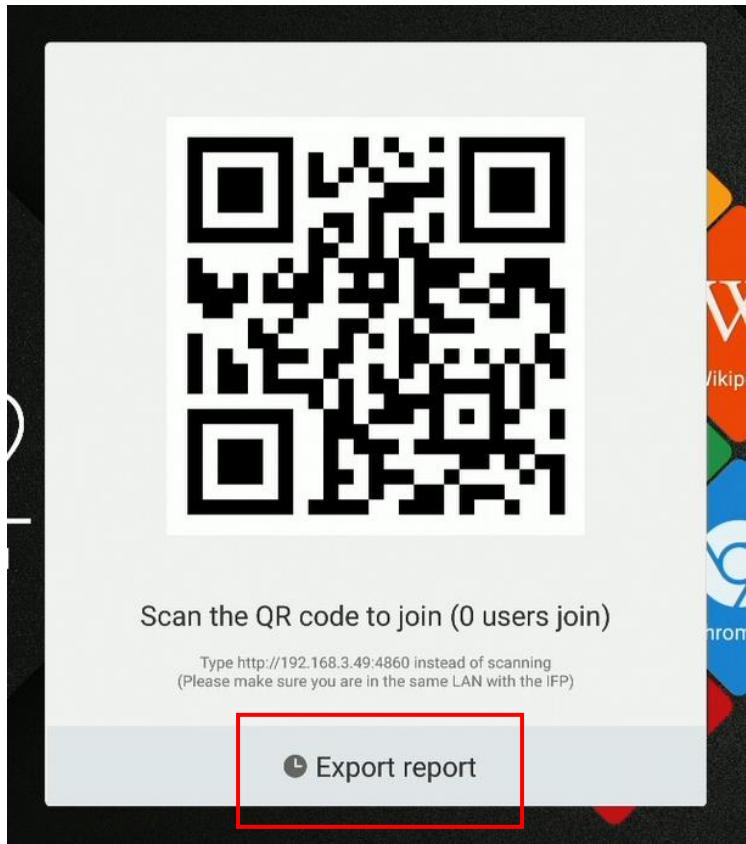
## **Message**

Users can be allowed to send their comments in text format and these comments are then displayed on the screen.

### **Export report**

In order to export vote or quiz results for later processing or evaluation, ask all questions, collect all users' answers and then touch  and then touch **Export report**.

The report will be saved in XLS format in the AirClass folder in the interactive display's storage.



## Note – the annotations app

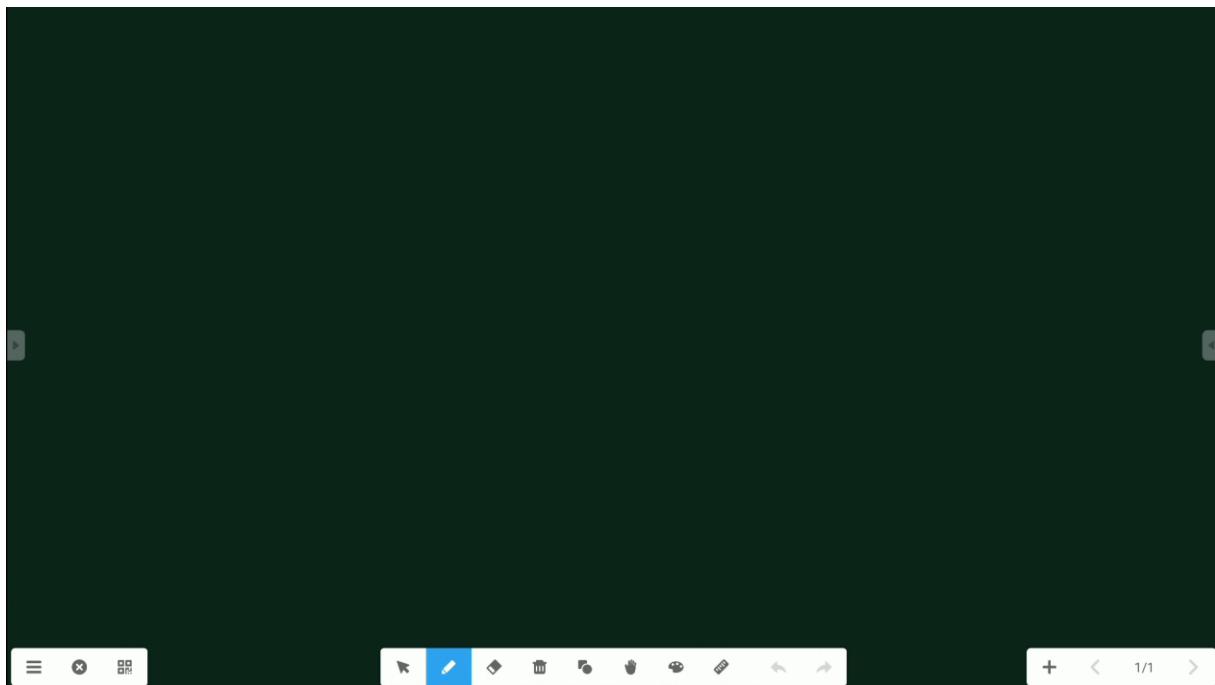
To start Note, touch its icon



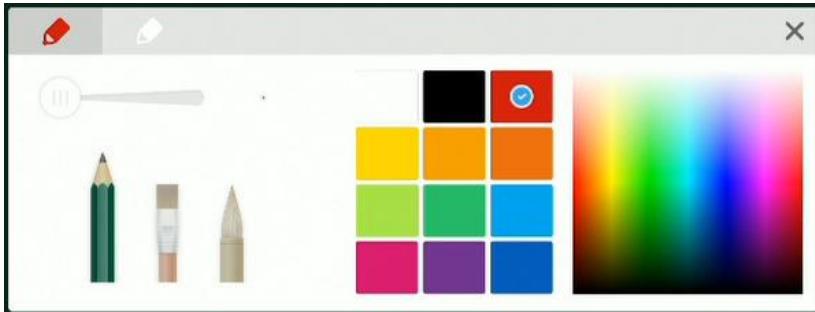
on the desktop.

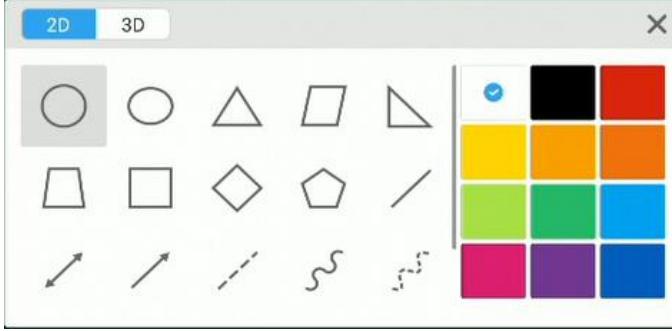
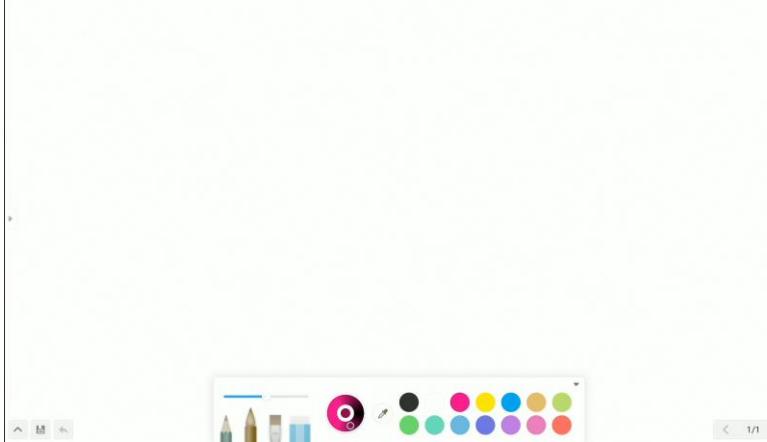
Note is an application that provides a workspace that works as a virtual chalkboard which you can write and draw on, including making handwritten notes on any images pasted into it.

### Basic operation



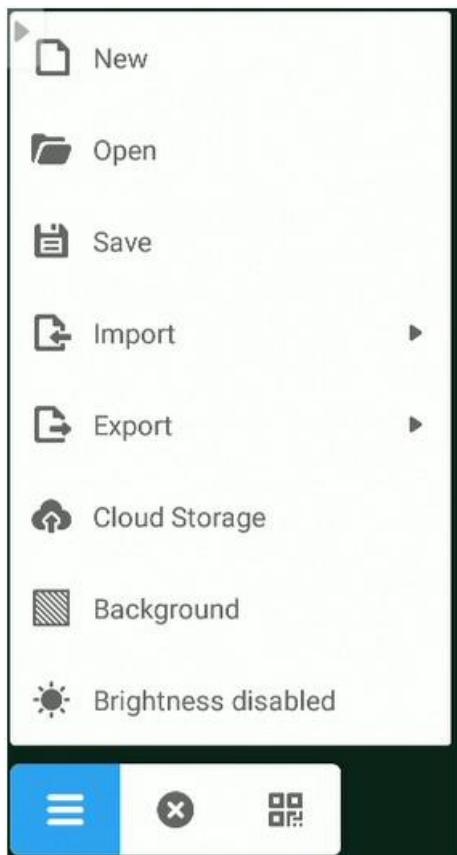
Icon	Name	How it works
☰	Menu	Opens a menu that offers additional tools.
✖	Exit	Exits Note.
QR	QR Code	Shares a QR code which enables users to download all notes to their devices simply by scanning it.

Icon	Name	How it works
		 <p>Sweep to share and read.</p> <p>Click to enlarge QR Code</p> <p>Make sure the device is on the same LAN</p> <p><b>NOTE:</b> All mobile devices used by the audience must be connected to the same WiFi network as the interactive display.</p> <p><b>NOTE:</b> Click the QR code to zoom it in, which will enable the audience to scan it even from a greater distance.</p>
	Cursor	The Cursor can be used to select and move objects around on the workspace.
	Pen	<p>You can use the Pen to write on the workspace.</p> <p>Touch again to select the pen type, thickness and colour.</p>  <p>Depending on the display model, it can also be possible to select pen type, thickness and colour for a variety of thicker or thinner writing tools.</p>
	Eraser	Use it to erase (delete) handwritten annotations and

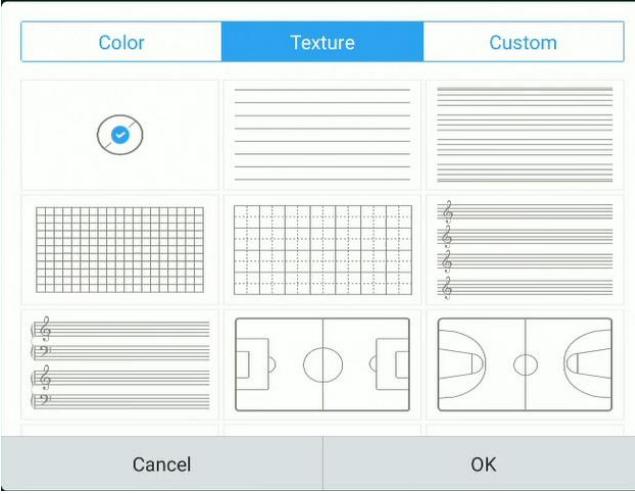
Icon	Name	How it works
		<p>objects.</p> <p><b>NOTE:</b> You can also erase annotations by placing your entire palm on the screen. This technique does not erase objects though.</p>
	Bin	Erases all objects from the current page.
	Objects	<p>Use it to draw objects.</p> <p>Touch again to select the type and colour of the object you want to draw.</p> 
	Hand	This feature can be used to move the entire page and to zoom it in and out.
	Paint	<p>Use the paint mode to simulate paintbrush or crayon styles and to use custom colours.</p> 
	Maths Tools	This feature allows you to insert some basic mathematical tools: a ruler, two types of squares and a protractor.

Icon	Name	How it works
↶	Undo	Undoes the most recent action.
↷	Redo	Undoes the most recent “undo” operation.
+	Add page	Adds a new page.
<	Previous page	Goes to the previous page.
>	Next page	Goes to the next page.
1/1	Page counter	<p>The counter shows how many pages are open and which page is currently shown.</p> <p>When clicked, it shows a navigation menu that contains a thumbnail preview of each page:</p>

## Menu

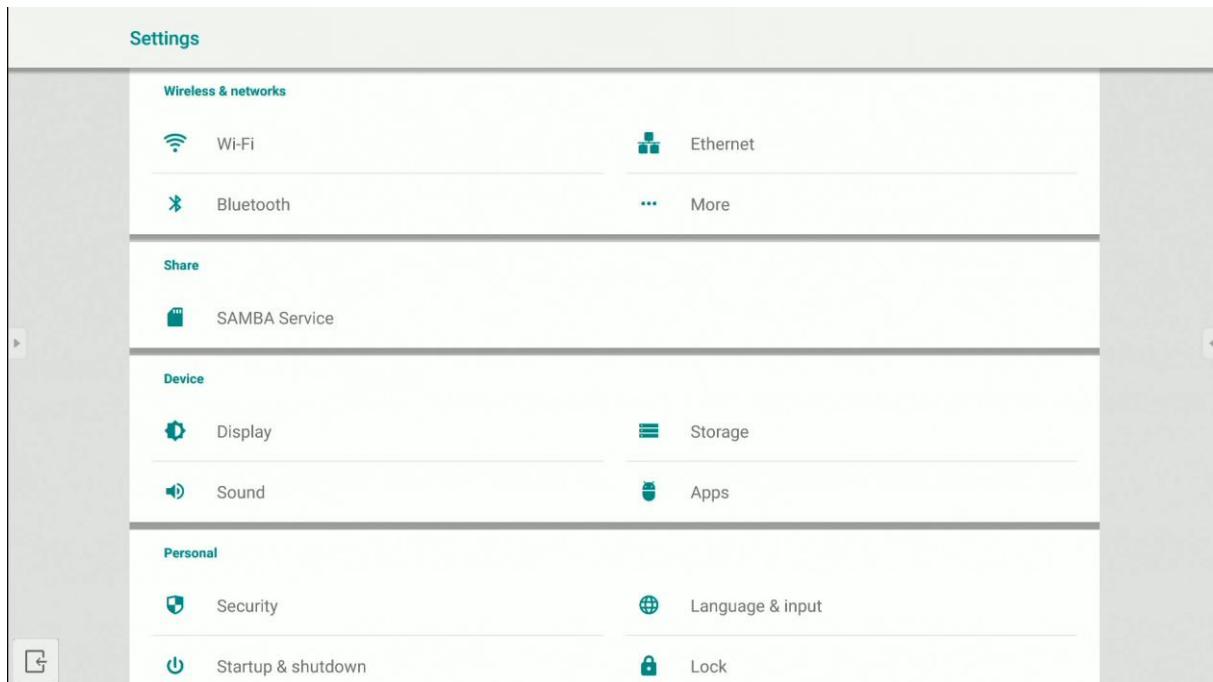


Icon	Name	How it works
	New	Opens a new empty document.
	Open	Opens an existing document.
	Import	Use it to import a file to the current page. You can import and embed images, PDF and SVG files. 
	Export	Use it to export the existing notes by saving them in other file formats.

Icon	Name	How it works
		
 Cloud Storage	Cloud Storage	Sends the existing notes to the cloud. This feature is discussed in more detail in the Cloud Drive section further in this manual.
 Background	Background	Use this feature to change the background colour or to select and set a predefined pattern or a custom image to be displayed as the background.  
 Brightness disabled	Brightness enabled/ disabled	Enables or disables automatic brightness adjustment. When that feature is enabled, the display will reduce its brightness when someone starts writing on it, so as to reduce the user's eye strain.

## System settings

To open the operating system's Settings, click

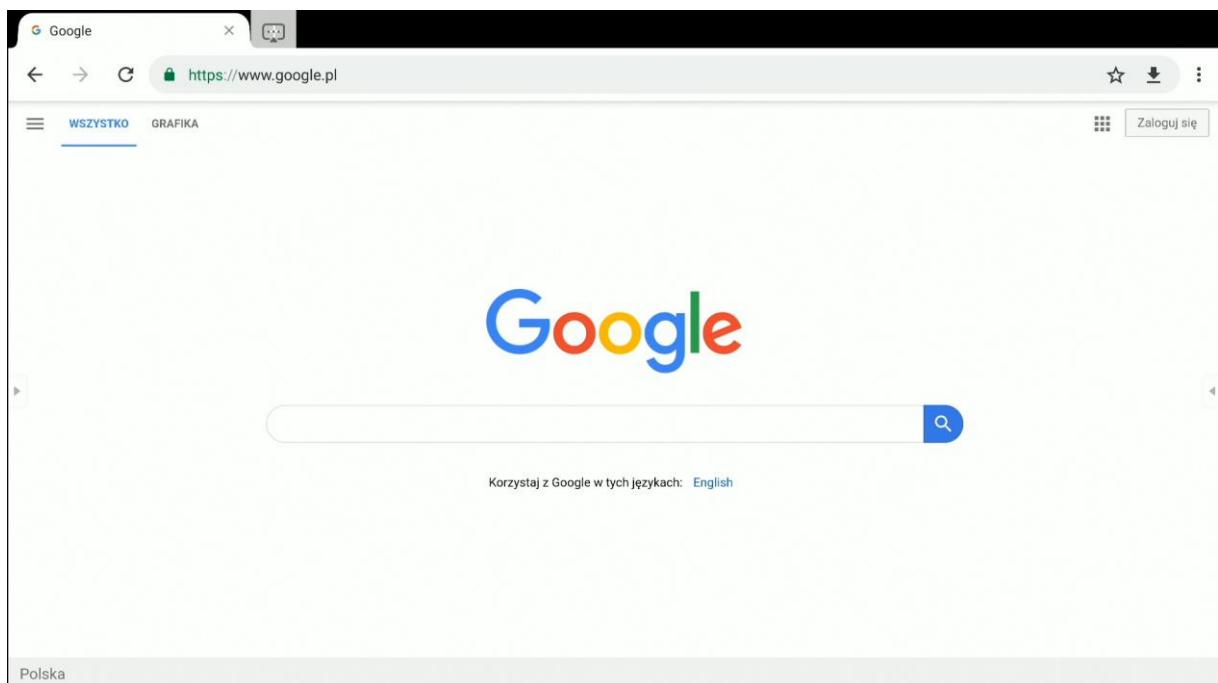


Icon	How it works
Wi-Fi	Set up wireless network connection settings.
Ethernet	Set up wired network connection settings.
Bluetooth	Set up Bluetooth connection settings.
More	Access additional settings.
SAMBA Service	Enable/disable SAMBA.
Display	Display settings.
Sound	Sound settings.
Storage	Storage settings.

Icon	How it works
 Apps	Application settings.
 Security	Advanced security and privileges settings.
 Startup & shutdown	Set up display startup and shutdown, including its timer.
 Language & input	Language and input settings.
 Lock	Here you can set or change display security lock password.
 Input Setting	Set up inputs, including their custom names.
 Other Settings	Miscellaneous settings.
 Date & Time	Date and time settings.
 About device	View device details here.
 System Update	Check for availability of system software updates manually.

## Web browser

To open the web browser, click



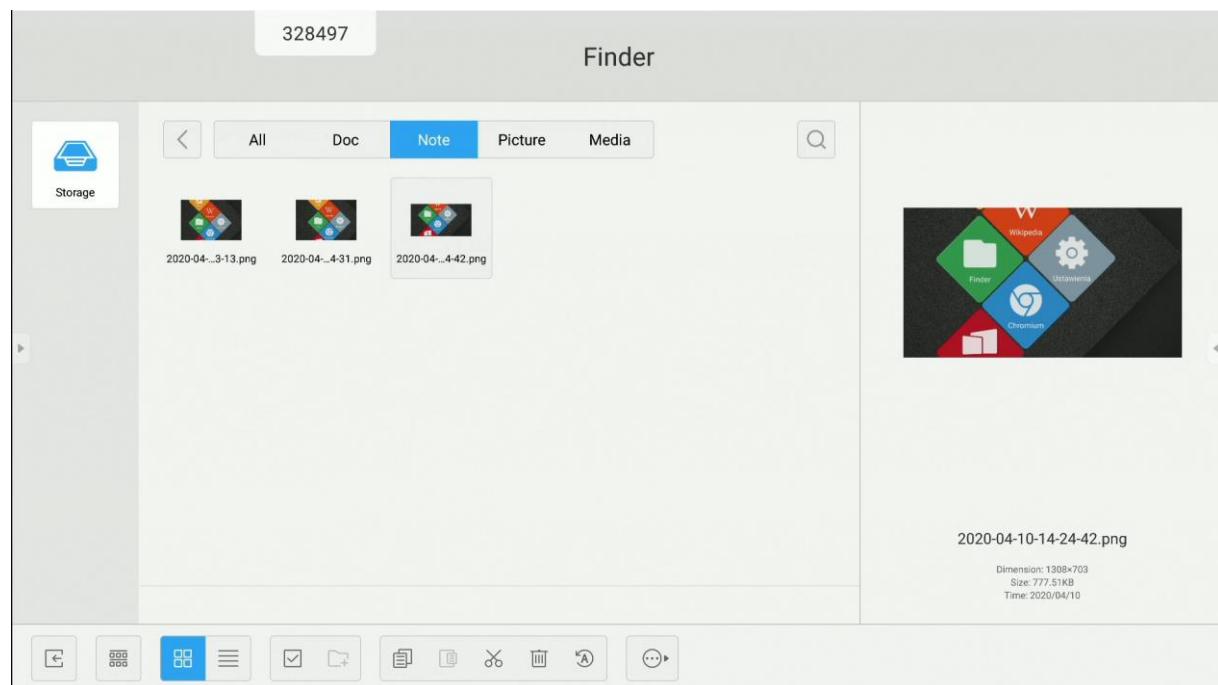
## Finder – a file manager

### Basic operation

To open **Finder**, click



**Finder** is a file management app that provides access to files stored in the display's internal memory and on any storage devices that may be connected to it, e.g. on USB pendrives.



Icon	Name	How it works
	Exit	Exits Finder.
	Sort	Choose the file sorting method here.
	Thumbnails	Show files as thumbnails.

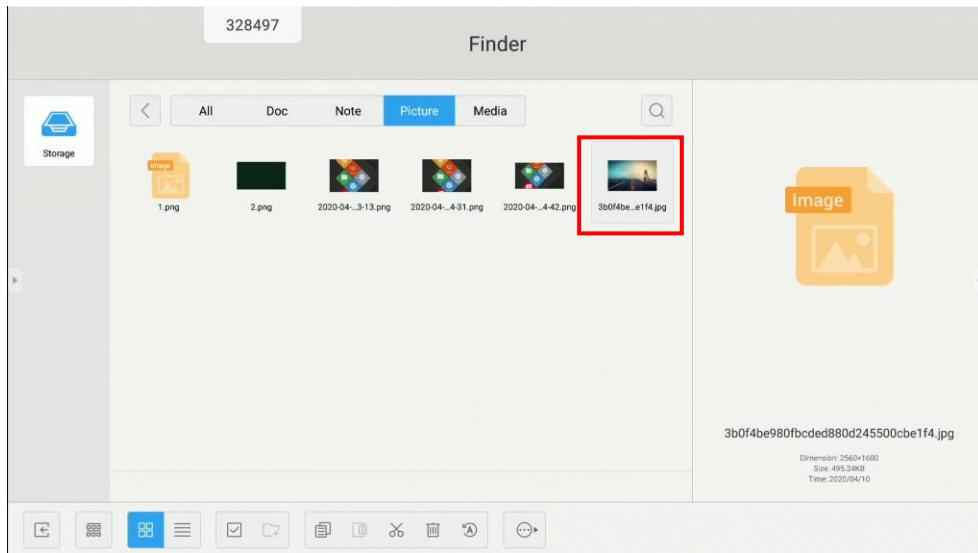
Icon	Name	How it works
	List	Show files as a list.
	Select	Enable selection mode to select multiple items.
	New folder	Create a new folder.
	Copy	Copy the selected item to clipboard.
	Paste	Paste the item from clipboard.
	Cut	Cut the selected item to clipboard.
	Delete	Delete the selected item.
	Rename	Edit and change the name of the selected file or folder.
	Share	<p>Share the selected file:</p> <ul style="list-style-type: none"> <li>- to a connected USB drive</li> <li>- using a QR code</li> </ul>   <p>Sweep to share and read. Click to enlarge QR Code Make sure the device is on the same LAN</p>

**NOTE:** All mobile devices used by the audience must be connected to the same WiFi network as the interactive display.

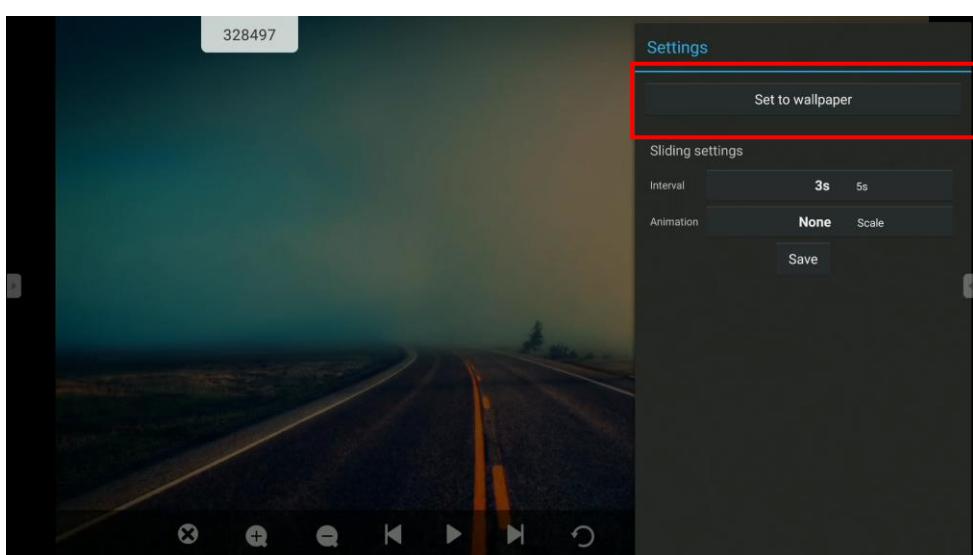
## Set or change the wallpaper

To change the wallpaper of the interactive display's desktop, first prepare the image that will be used as the new wallpaper. You can download the image file from the internet or save it on a USB drive.

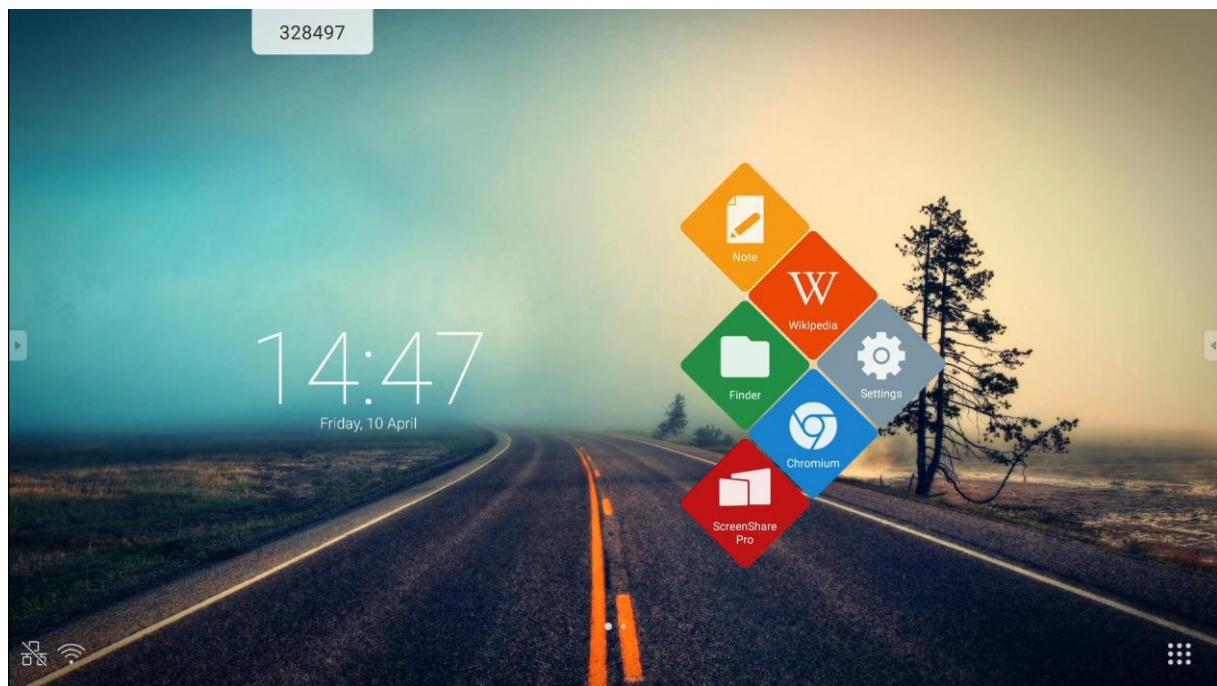
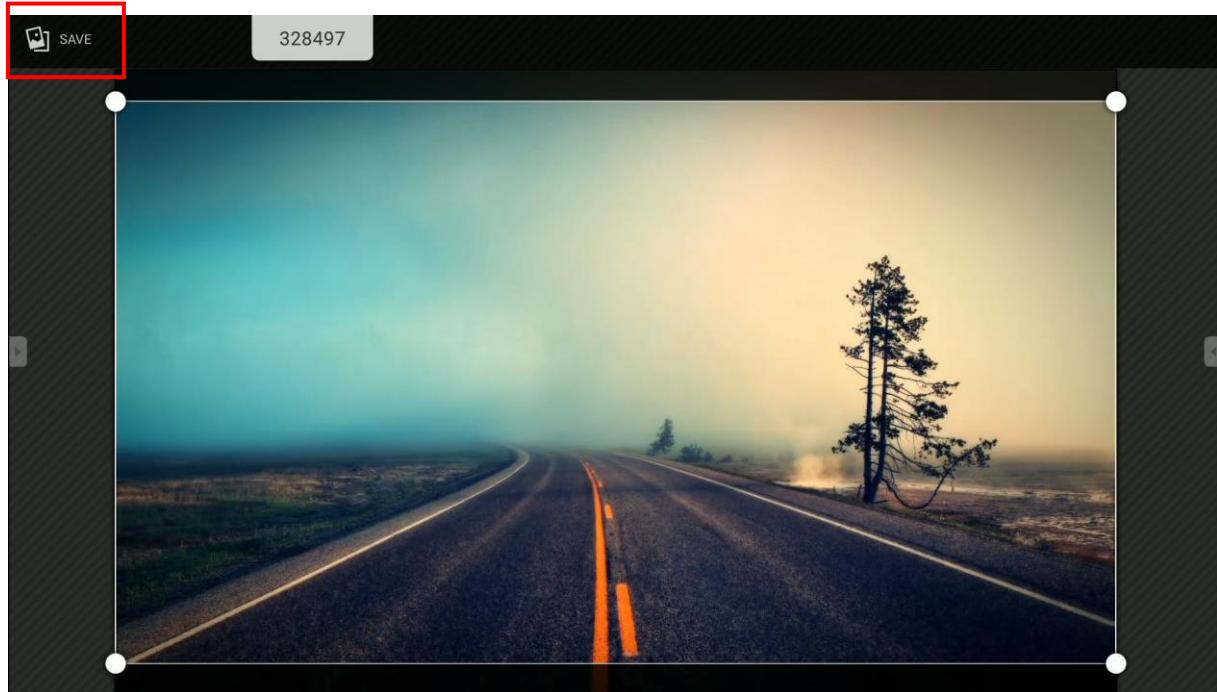
1. Select the file to be set as the new wallpaper and double-click it.



2. Touch 
3. Select Set to wallpaper.



4. Crop the image to fit the screen size and touch **Save** to set it as the wallpaper.

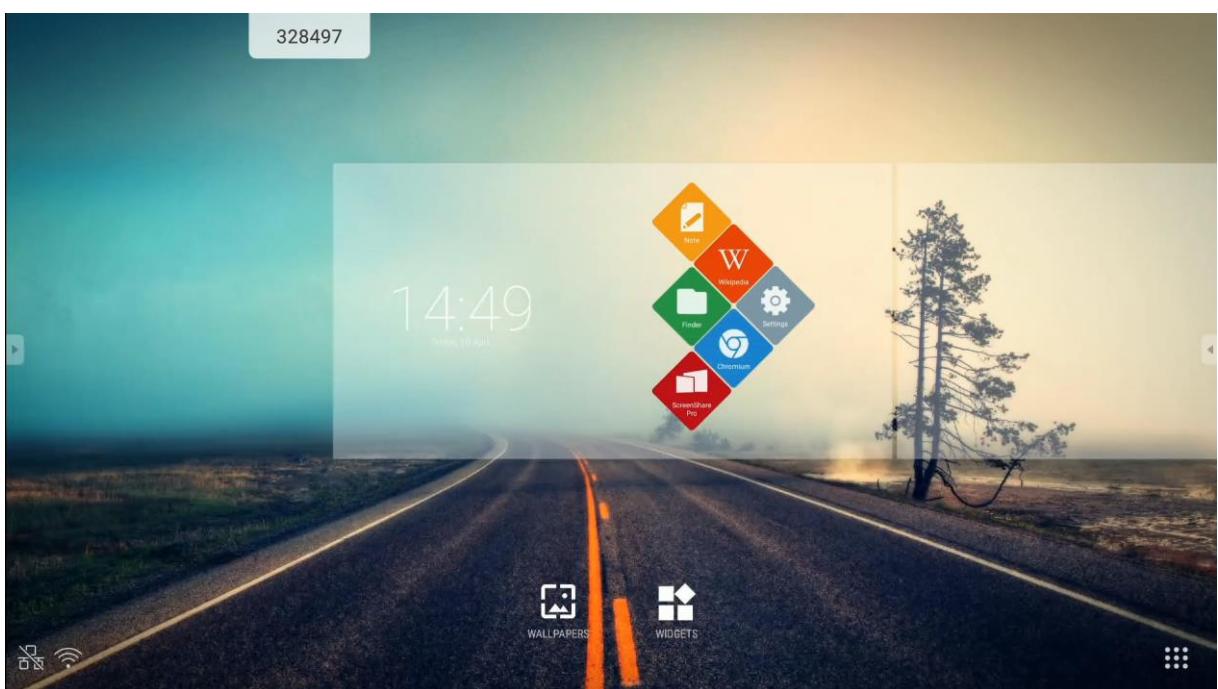


## Desktop settings

### Widgets

You can set multiple desktops and place application shortcuts and widgets on each of them, except for the home desktop. In order to add a widget to a desktop:

1. Touch and hold a place on the desktop.
2. Touch 



**NOTE:** Widgets are optional features of some apps installed in the system. The manufacturer of the interactive display does not guarantee trouble-free operation of any third-party app or widget.

### Adding desktops

To add a new desktop, simply drag an application shortcut to it.

## Screenshare Pro

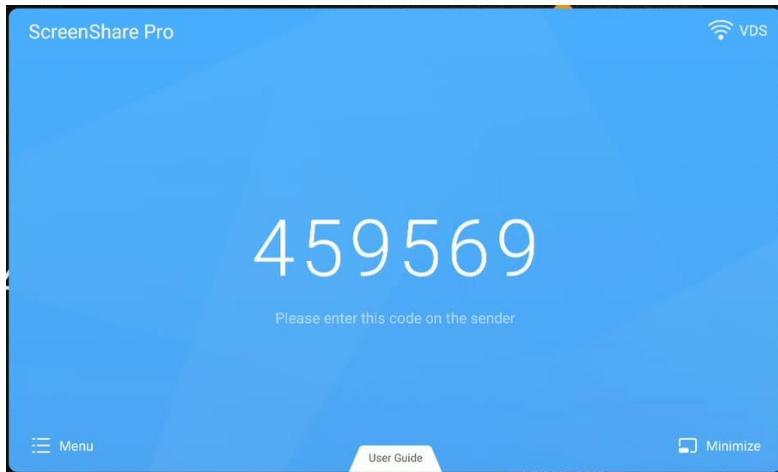
ScreenShare Pro is wireless screen mirroring (screen sharing) app that lets mobile device or PC users display their screens on the interactive display connected to the same WiFi network.

**NOTE:**

*All mobile devices used by the audience must be connected to the same WiFi network as the interactive display.*

*Make sure the interactive display is connected to the internet. A fast internet connection is essential for the screen mirroring feature to work smoothly.*

To start the app, touch its icon:



*Compatible operating systems:*

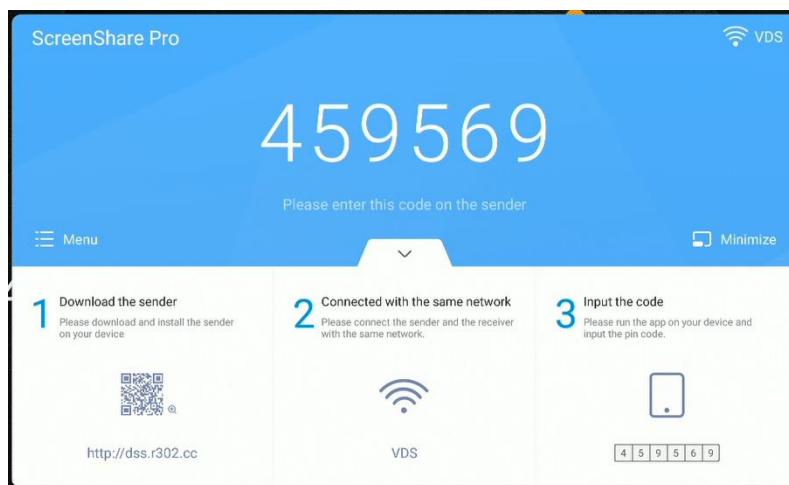
- Windows 7, 8, 10
- MAC OSX 10.8 or newer
- iPhone iOS 9.0 or newer
- Android 5.0 or newer

*Instructions for mobile device users:*

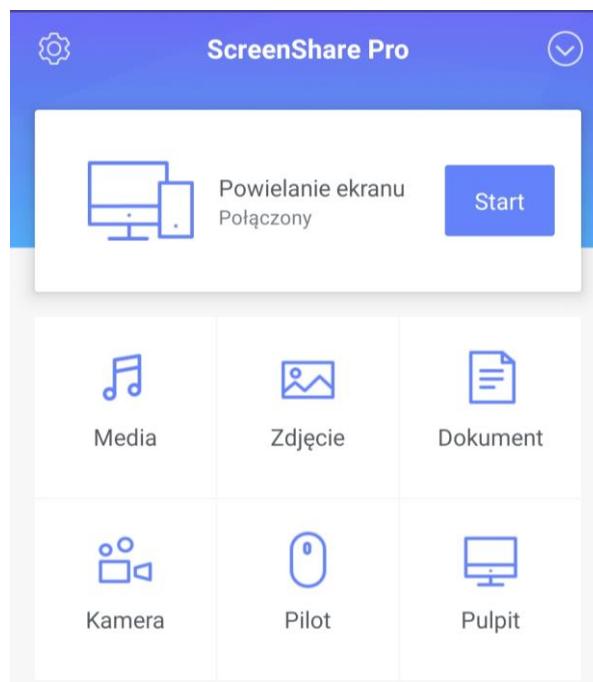
1. Download the ScreenShare Pro app.

If your device runs Android or iOS, you can download ScreenShare Pro from Google Play or App Store, respectively.

Alternatively, ask the interactive display user to touch **User Guide** and scan the QR code which will be displayed then with your mobile device camera.



2. Input the code displayed on the interactive display in your mobile app to pair it with the display.



Click  to start mirroring your mobile device screen on the interactive display.

**NOTE:** Up to four mobile device users can mirror their screens on the interactive display simultaneously.

To stop mirroring your device screen, click 

- The  Media,  Photo,  Document icons allow sending the following types of content to the display, respectively: audio and video files, images and documents. In this mode, before the file is displayed on the interactive monitor, it will need an appropriate amount of time to be transmitted completely.

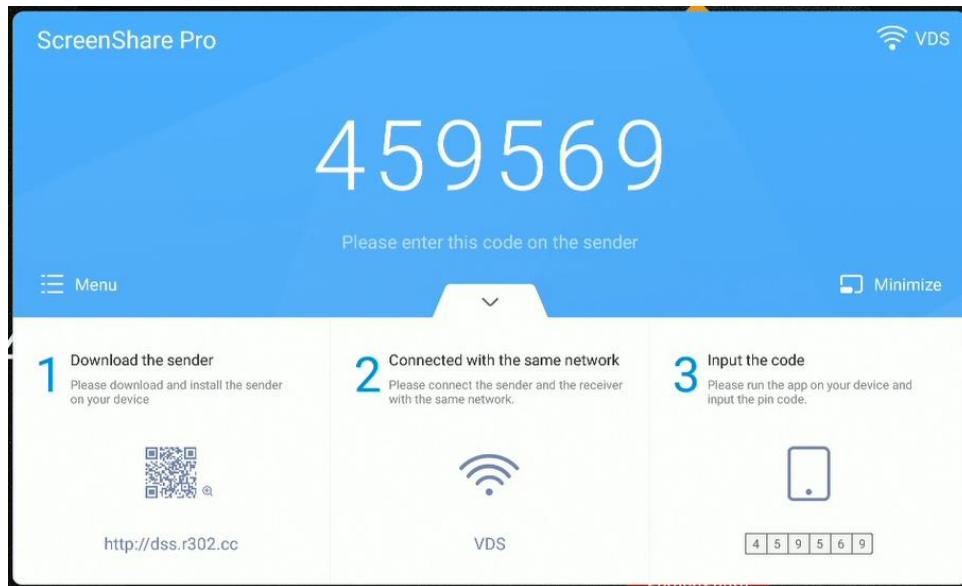
- To enable sharing the video from the camera, click  In this mode you can choose between image quality and frame rate, and you can freeze the video on the screen at any point.

- Click  to use your mobile device screen as a touchpad to remotely control the interactive display.

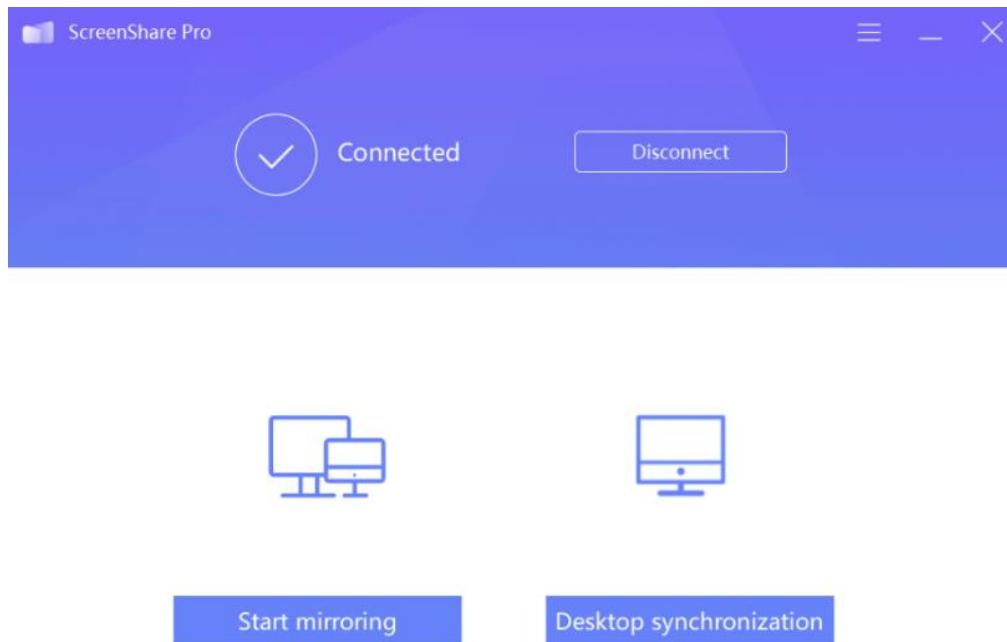
- Click  to mirror the interactive display's screen on the mobile device and control the display.

*Instructions for PC users*

1. Download the PC app by scanning the QR code or by copying the URL address shown under the code.



2. Input the code displayed on the interactive display in the prompt box shown by your mobile app to pair it with the display.



- Click **Start mirroring** to start mirroring the PC screen on the interactive display.
- Click **Desktop synchronization** to start mirroring the interactive display's screen on your PC.

## Using the app

**IMPORTANT!** The Android operating system which the interactive display runs on is not a standard out-of-the box system. It was modified and optimised to support the features and functions of the display. As a result, it does not provide access to some otherwise standard services and apps, such as Google Play.

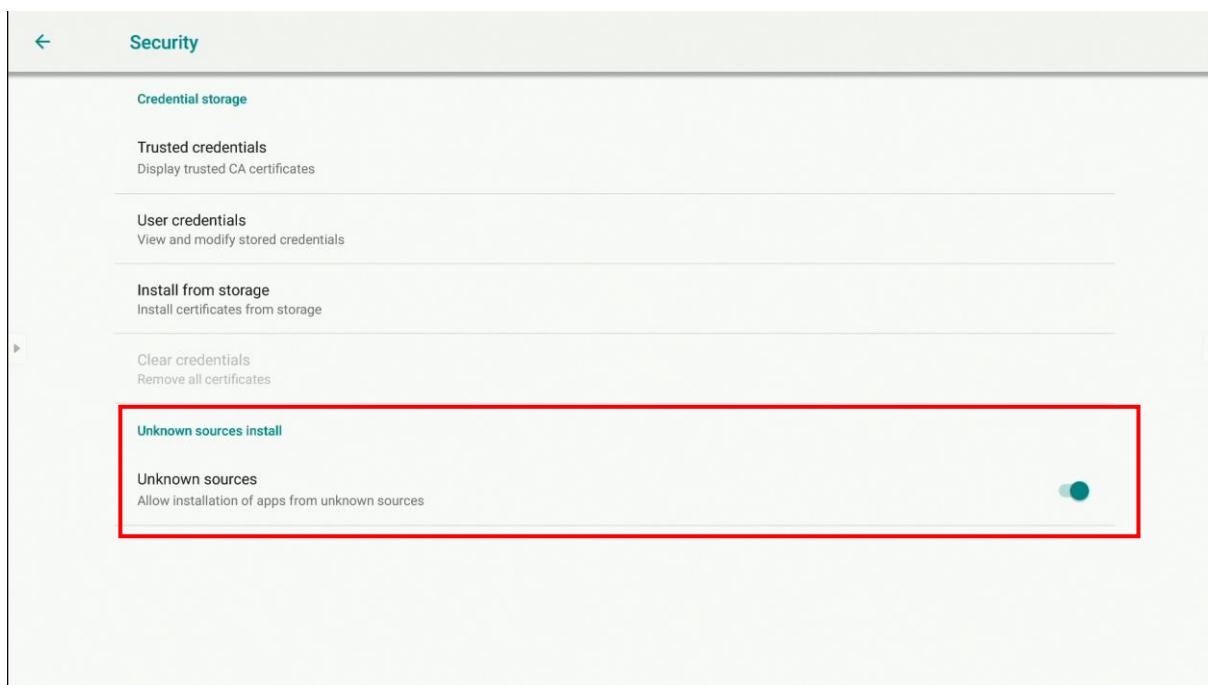
Apps installed by the user may not work as expected. The manufacturer of the interactive display does not guarantee its compatibility with any apps installed by the user.

To access other apps, select the **More apps** icon shown in the lower right corner of the screen:



In order to install any new app manually, download it as an APK installation package, which then needs to be run in the display's system.

This may require unblocking the permission to install software from unknown sources. To do this, open **Settings**, go to **Security** and enable the **Unknown sources** option.



## Calculator

To open the Calculator, select



## Calendar

To open the Calendar, select



## Cloud Drive

To run Cloud Drive, select



Cloud Drive is an app which lets you add and set up your Google Drive or OneDrive account and use it to facilitate file transfers between the interactive display and your mobile devices and PCs.

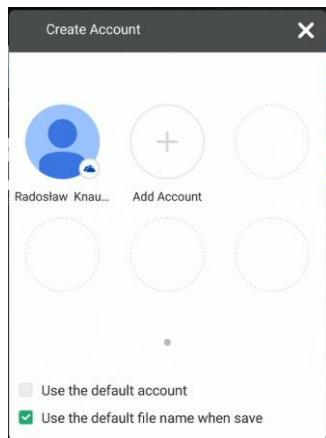


To use the app:

1. Click **Add Account**.
2. Select the cloud storage service: **Google Drive** or **OneDrive**.

**NOTE:** This feature requires internet access.

3. Log in to your account by following the instructions shown on the screen.



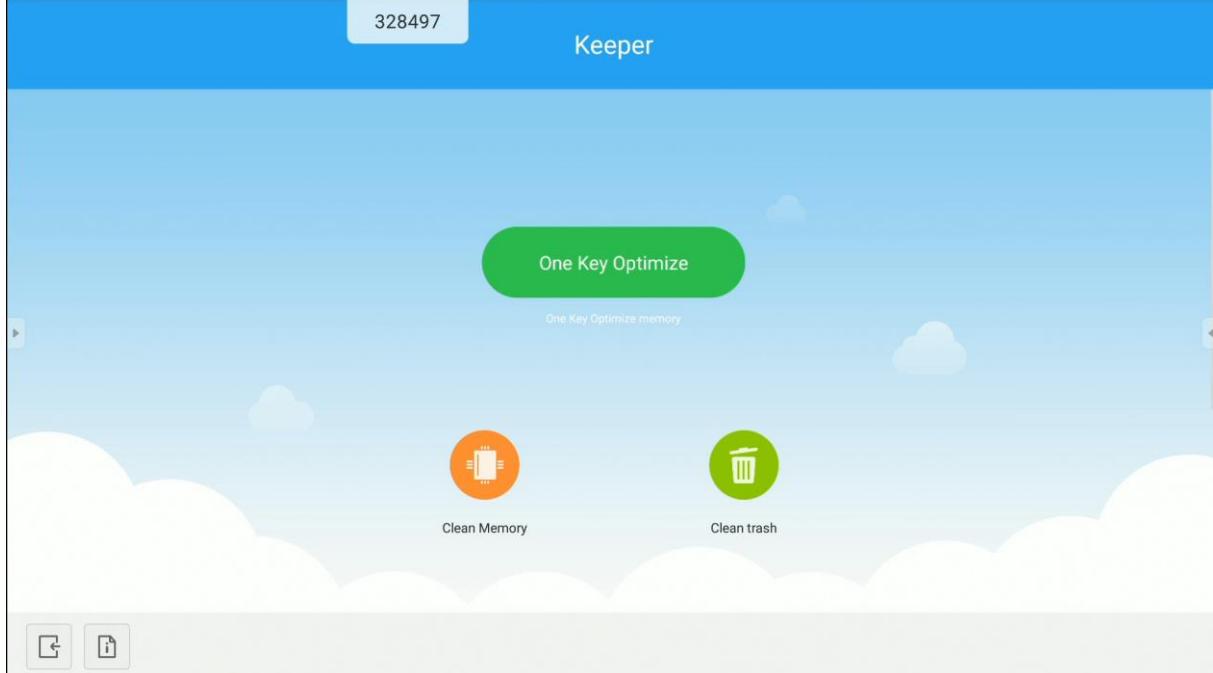
## Keeper



To run Keeper, select

Keeper is an app which optimised the interactive display's internal storage and helps

you clean its operating system from any files you do not need.



## NewPipe – a YouTube video player

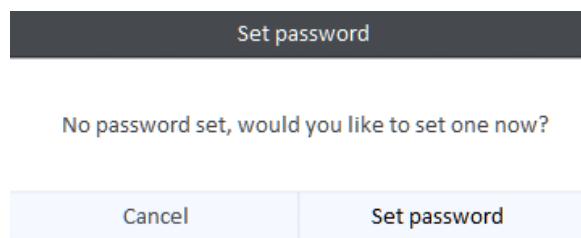
To run NewPipe, an app which lets you watch YouTube videos, select



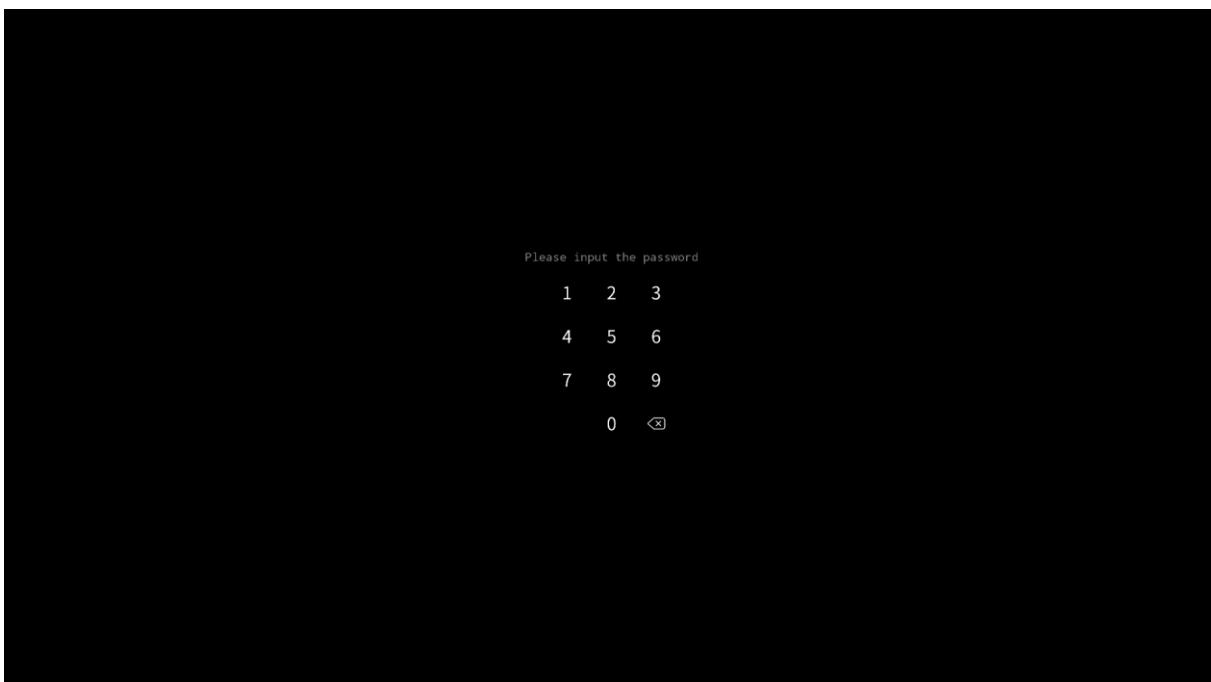
## Screen Lock

### *Screen Lock app*

Click the Screen Lock app icon . A password setting screen will be displayed. Use it to set your password (unless it has already been set).



If a screen lock password exists, the screen will be locked. To unlock it, input the correct password.



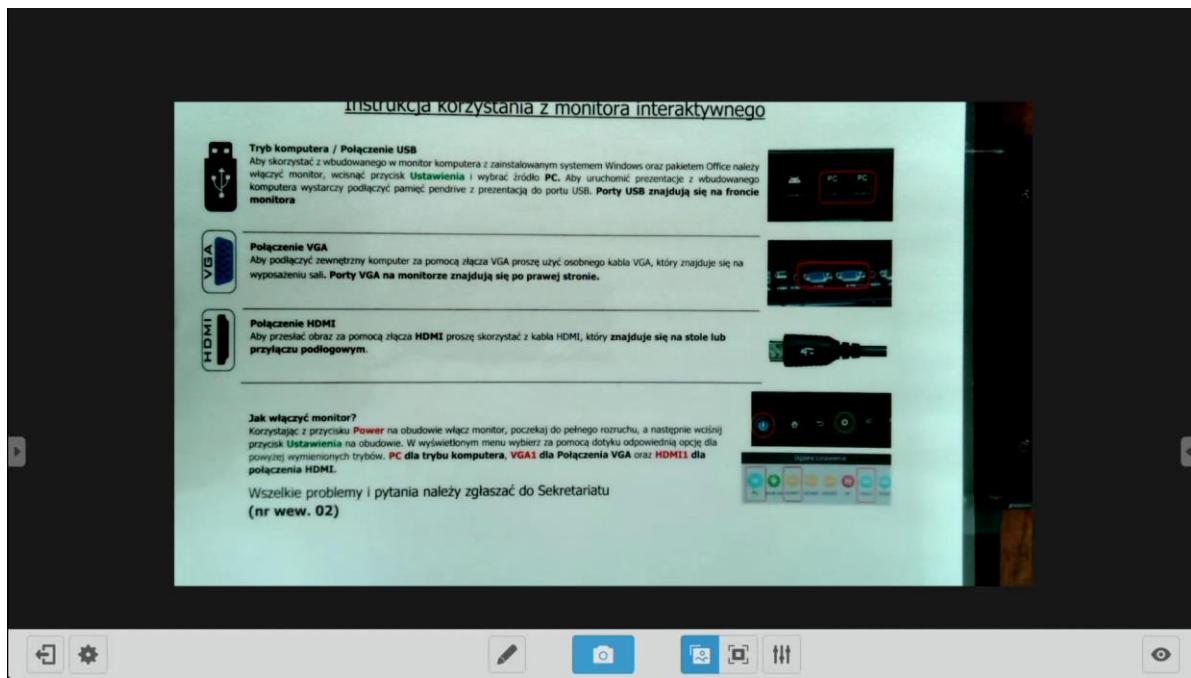
### Other screen lock options

The interactive display can be locked in other ways too. To learn more, please visit download.vidis.pl and read our article on locking the touch function and the display on Avtek TS product family.

## Document Camera

The app enables displaying the video signal from a document camera (or a webcam) and offers a number of features, including video freeze and split screen, which allows displaying multiple camera images and annotating them.

*NOTE: The manufacturer of the interactive display does not guarantee its compatibility with every document camera or webcam. The document camera or the webcam has to be a HID device, i.e. one that works without installing any drivers.*



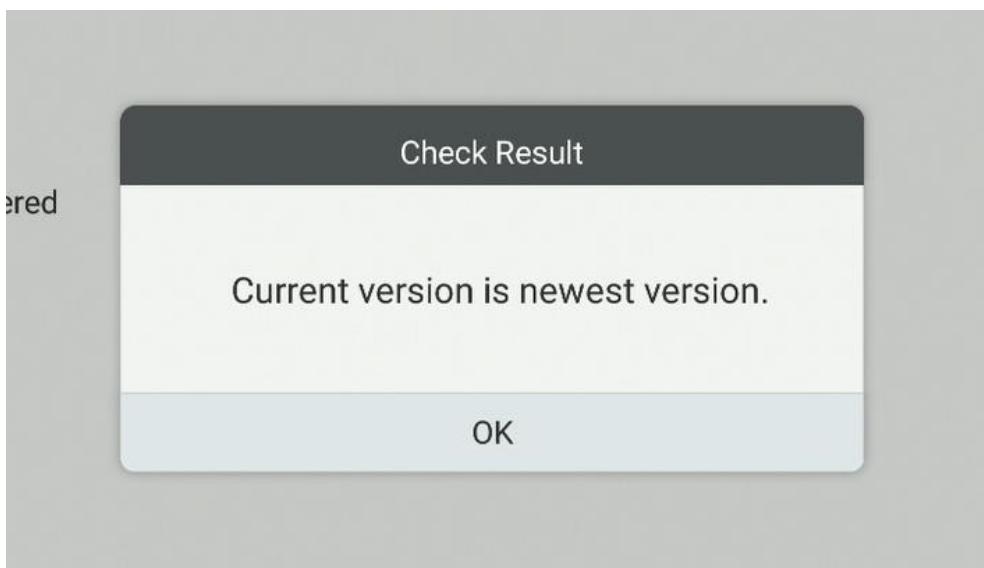
## Firmware updates

Avtek TouchScreen displays can have their software updated online. While the system is connected to the internet, it keeps checking for new available updates automatically.

**NOTE:** *The display uses the automated update feature only to keep its firmware up to date. The updates do not affect the Android operating system, which remains unchanged during the entire life of the display.*

You can also check for firmware updates manually.

To do it, go to Settings and touch **System update** and next, select **Check update**.



If a new update is available, the system will start downloading it. As soon as it has been downloaded, the update will be installed, which will take approx. 5 minutes.

**NOTE:** *NEVER TURN THE DISPLAY OFF while its software is being updated.*

**Thank you for using this user manual for the Android  
operating system of Avtek interactive displays!**



The manufacturer reserves the right to update and amend any part of this manual without notice at any time.