

**User manual**  
for the Android operating system of  
**Avtek TS 7 Lite**



## Contents

Introduction.....	4
Basic operation.....	5
General settings.....	6
Select source (INPUT) .....	6
Eye Care .....	6
Adjust audio volume .....	7
Adjust brightness .....	7
Side toolbar .....	7
Basic operation.....	7
Recent tasks .....	8
Split screen / Multi-app mode.....	9
Annotation menu.....	10
Bytello share .....	11
Timer.....	12
Screenshot menu .....	13
Freeze/Zoom .....	14
Additional auxiliary tools .....	15
How to use AirClass .....	16
<b>Voter</b> (Poll).....	18
<b>Responder</b> (Winner Takes All).....	20
<b>Selector</b> .....	21
<b>Message</b> .....	21
Note – the annotations app.....	22
Basic operation.....	22

Menu .....	26
System settings.....	28
Web browser .....	29
Finder – a file manager .....	30
Basic operation.....	30
Set or change the wallpaper .....	31
Desktop settings .....	32
Shortcuts.....	32
Bytello Share.....	32
Compatible operating systems: .....	33
Instructions for mobile device users: .....	33
Instructions for PC users .....	35
Using the installed apps .....	37
ApkPure .....	37
Calculator .....	37
Calendar .....	37
Palette.....	38
Cloud Drive.....	38
Keeper .....	38
Firmware updates .....	39

## **Introduction**

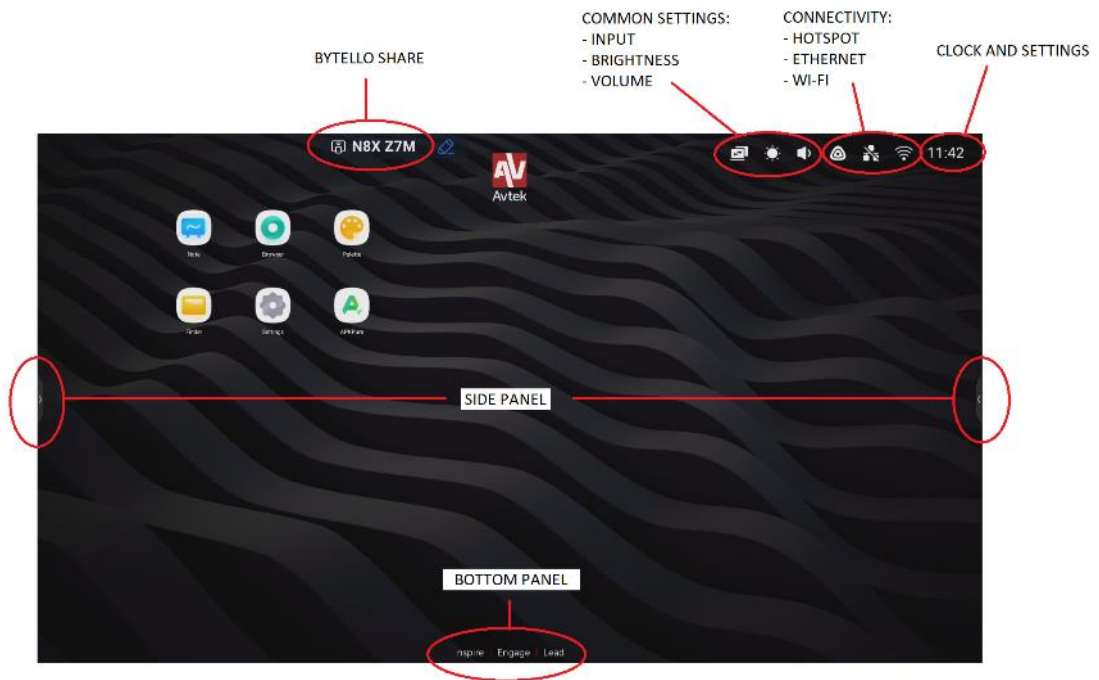
The operating system installed on Avtek interactive displays is a modified version of the popular Android. It both supports the basic operation of the display monitor (e.g. switching between input sources or controlling the sound volume) as well as offers a number of useful features and utilities, which 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 by simply touching the display screen surface.

In order to change language click on the clock in the top right corner. This will open settings. Go to System/Language and choose preferred language from the list.

## 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 a side toolbar.

## 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 (INPUT):** on the **Common Settings** home screen all image sources will be shown as icons. The sources that are currently available will be highlighted with a dot. To change a source, simply touch the icon of the one you want to use.

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

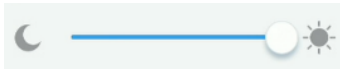
**Eye Care:** blue light waves, which are a component of all colours of light emitted by device displays, can cause eye fatigue and even lead to retina damage and eventually contribute to loss of eyesight. Eye Care is a feature designed to relieve the user's eyes by reducing the intensity of blue light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



## Basic operation

- To hide the toolbar, touch 

- To go back to the previous screen or to undo the recent action in a supported app (provided it can be undone), touch 

To go back to the home screen, touch 

To show all running apps, touch



- To go directly to **Note**, touch



- To open the menu that lists available apps, touch



- To open and customise the **Auxiliary tools** and menu, select



## Recent tasks

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



- 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) click the “X” icon.
- To clear the entire list, scroll it up and touch the “Clean All” icon.



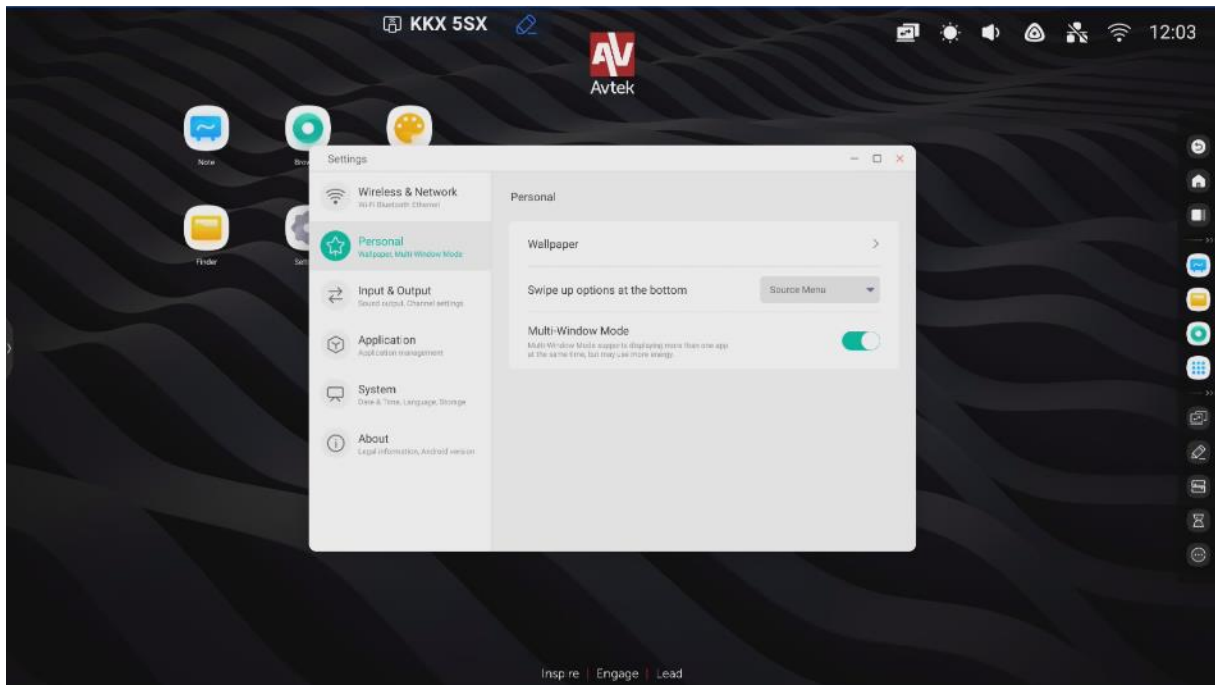
## Split screen / Multi-app mode

Avtek UX 3.0 display firmware enables you to display up to 4 apps simultaneously in the windowed mode. To do that, proceed as follows:

1. Open the settings



Next, go to the **Personalise** tab and select **Multi-window mode**.



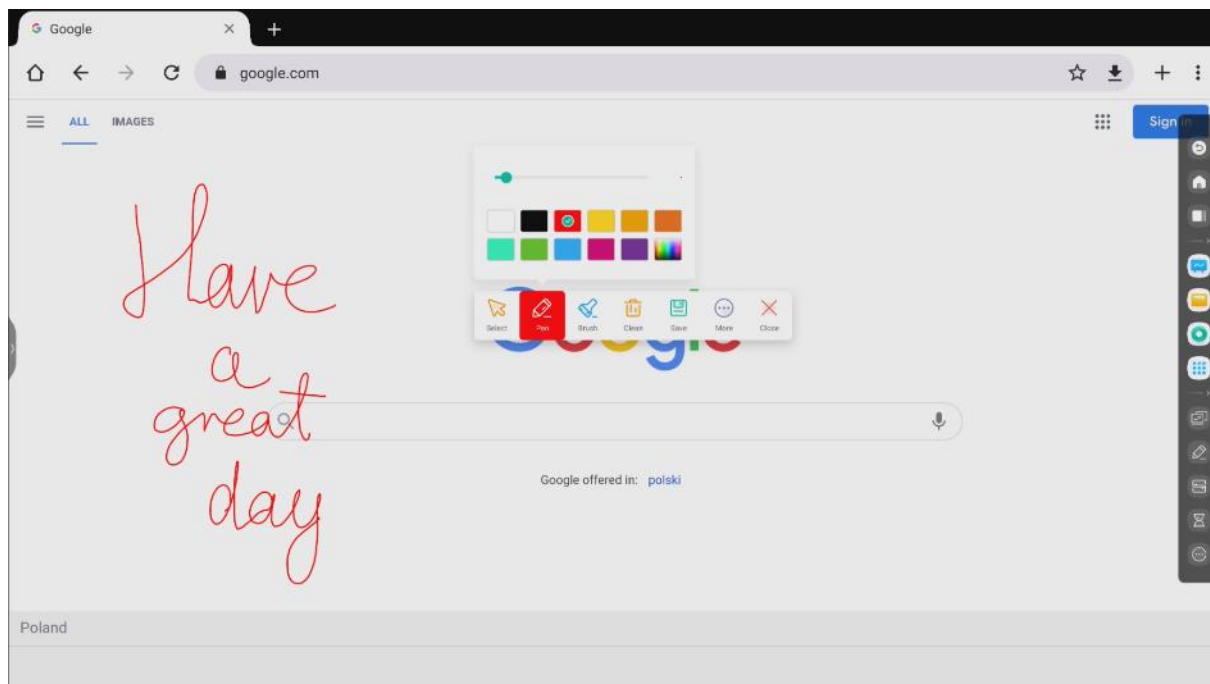
2. Restart the display to save changes.
3. After the display has started again, open any app. Next, touch and hold the title bar (the upper edge) of that app.
4. Drag the app to one of the highlighted panes on the sides of the screen:
  - TOP – fullscreen
  - LEFT or RIGHT – ½ of the screen
  - One of the CORNERS – ¼ of the screen

## Annotation menu

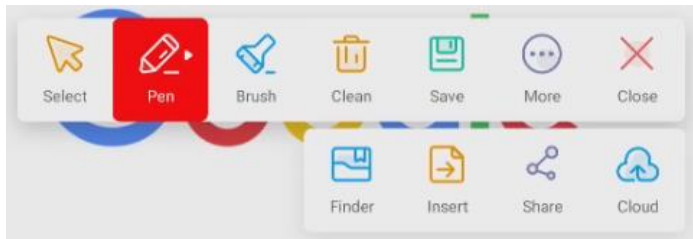
To open the **Annotation** menu, touch



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 and size of the pen, touch the **Pen** icon.
  - To write with a semi-transparent highlighter, touch the **Highlighter** icon. To change the highlight colour, touch the **Highlighter** icon.
- 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 **“Clear”** icon.
  - To save all your annotations in a PNG image file, touch the **“Save”** icon.
  - Previously saved notes can be edited using **“Finder”** icon.
  - To insert the annotation screen to the Note app click the **“Insert”** icon.
  - To share the annotation screen via a QR code use **“Share”** icon.
  - To upload the annotation screen to the cloud use **“Cloud”** icon.



## Bytello share

To open **Bytello Share** touch either



**H8W BXQ**

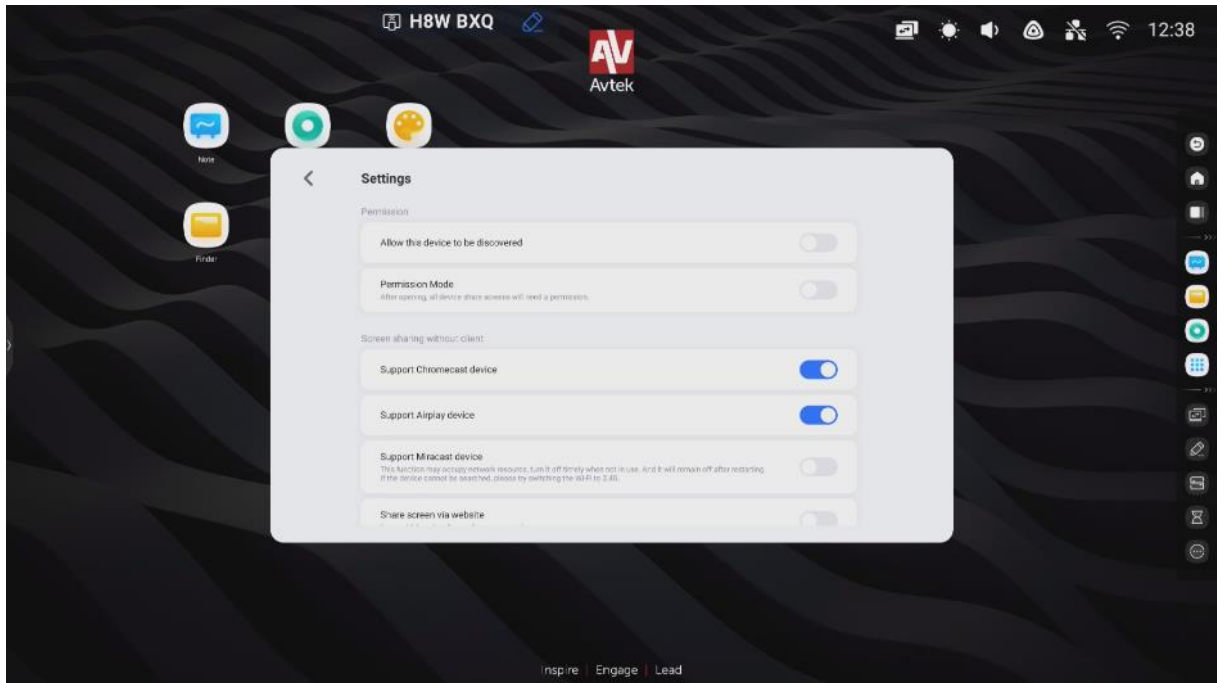
or



icon.




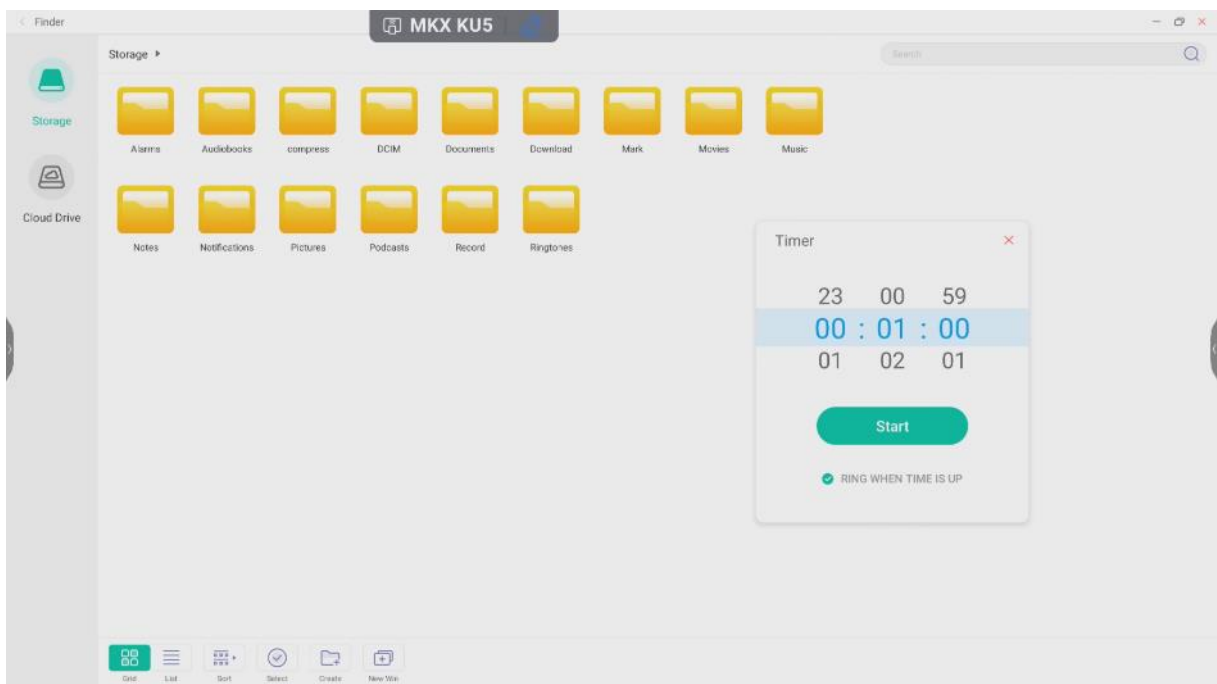
Bytello Share enables wireless connection with the display and compatible devices. The connection can be established either using Bytello App installed on another device or via Chromecast, Airplay or Miracast which can be found in the Bytello settings menu.



The full instruction for Bytello Share can be found below in the “Bytello Share” section.

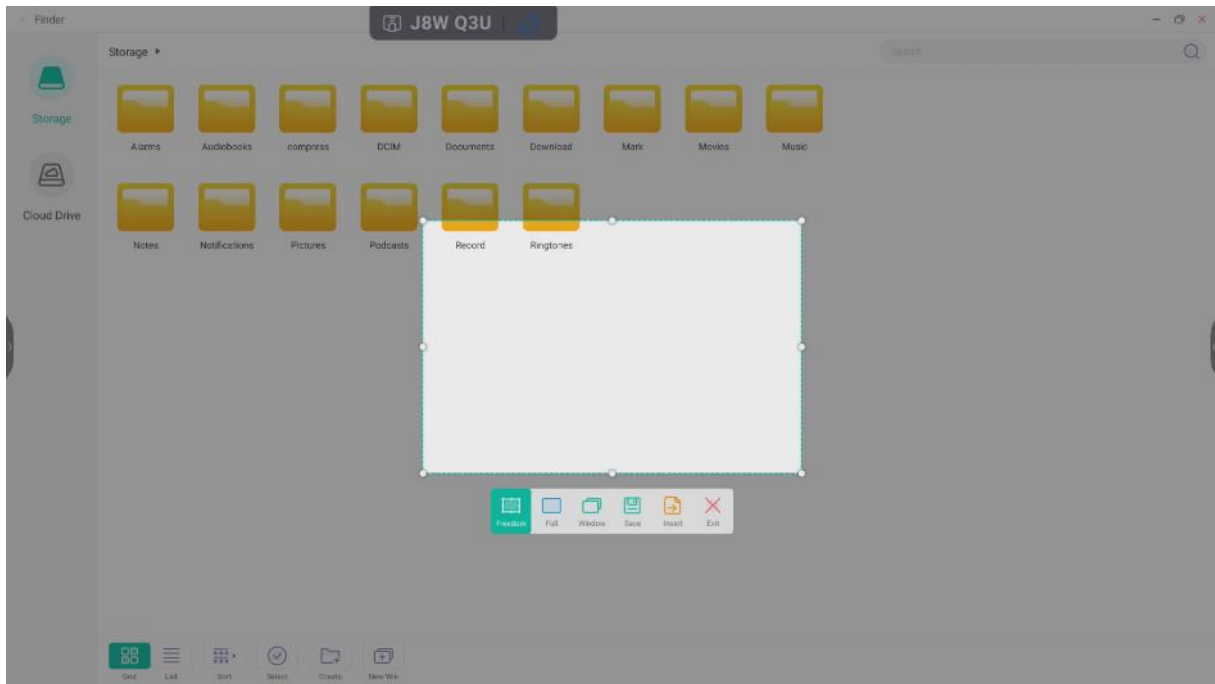
## Timer

To open **Timer** touch  icon.




## Screenshot menu

To open the **Screenshot** menu, touch



The default mode is “Freedom”

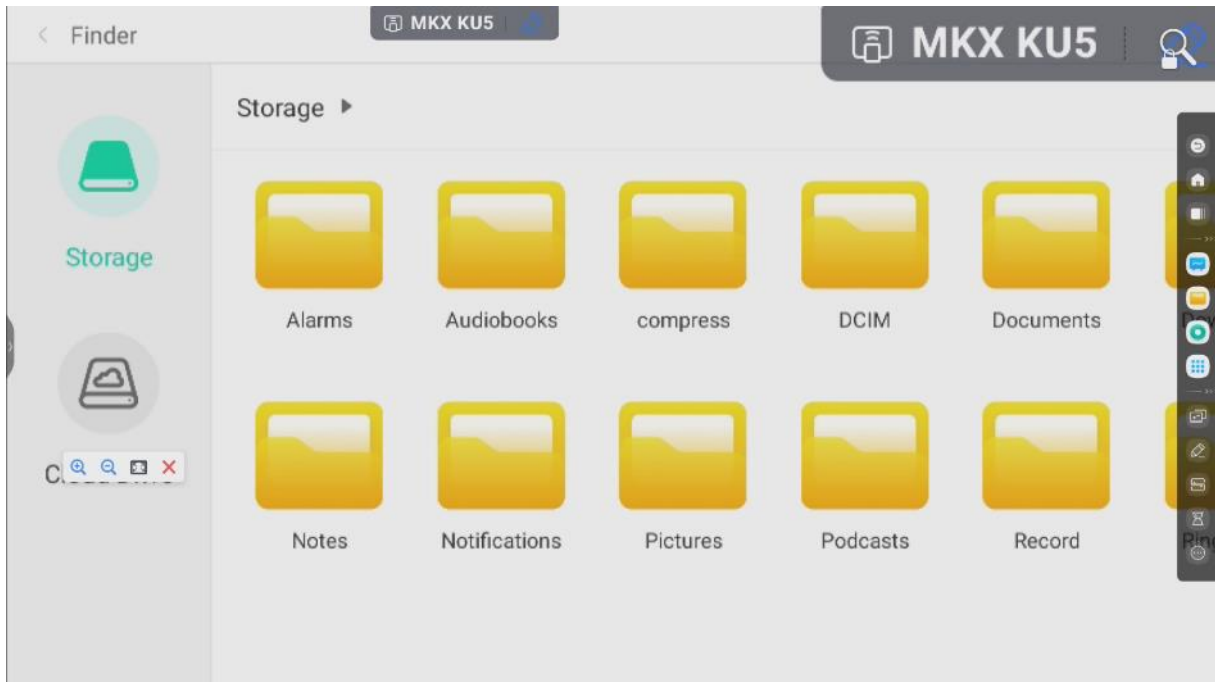
**NOTE:** To customise the area covered by the screenshot to suit your preferences, touch and hold its white handlebar icons  and then drag them as required.

- Touch “**Full**” to make a screenshot of the full screen.
- Touch “**Window**” to limit screenshot to the current widow.
- Touch “**Save**” to save the area of the screen selected as the screenshot area as a PNG image file.
- Touch “**Insert**” to send the screenshot to the Note app.
- Touch “**Exit**” 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

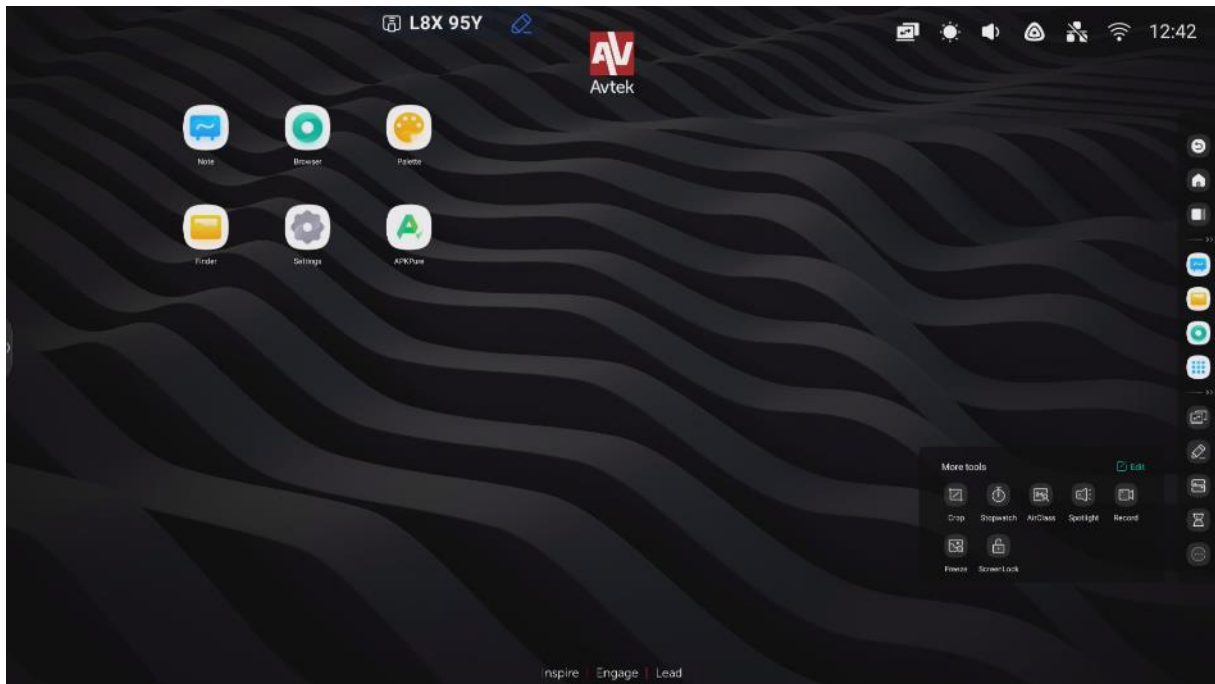
To freeze the screen and zoom in on a selected screen part, touch







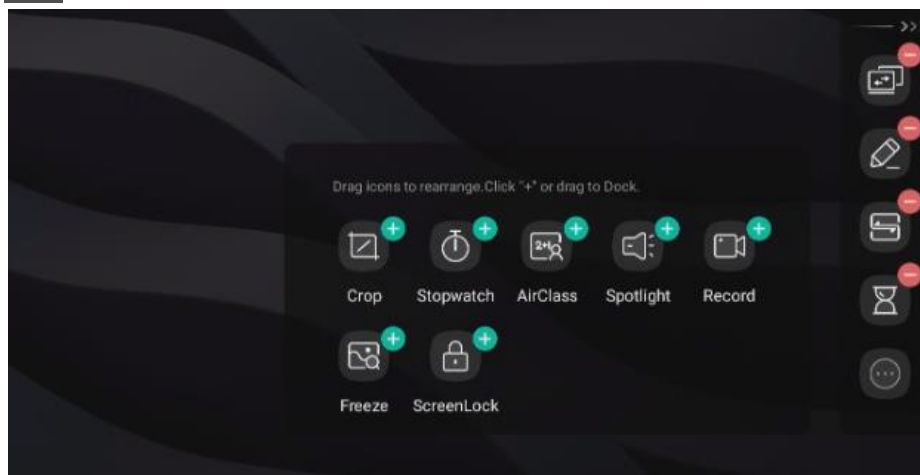
- Touch “+” to zoom in.
- Touch “-” to zoom out.
- Touch “Fullscreen” to revert to the original non-zoomed screen view.
- Touch “X” to disable the **Freeze/Zoom** mode.

## Additional auxiliary tools

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




- Touch  to activate the **Stopwatch**.
- Touch  to activate the **AirClass** mode.
- Touch  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 lock the screen (optionally set a password).

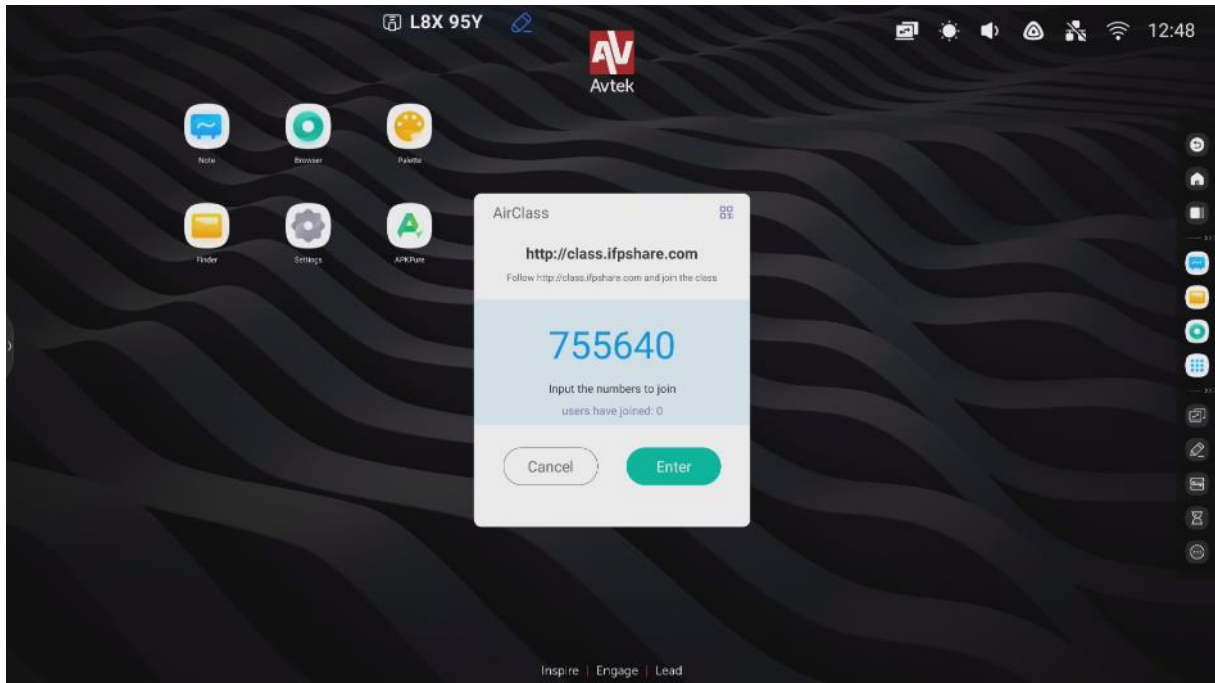


To customise the toolbar, touch and hold the icon of any tool for a moment. The toolbar editing mode will activate. Use “+” to add another tool to the side toolbar. Use “-” to remove a tool from the side toolbar.

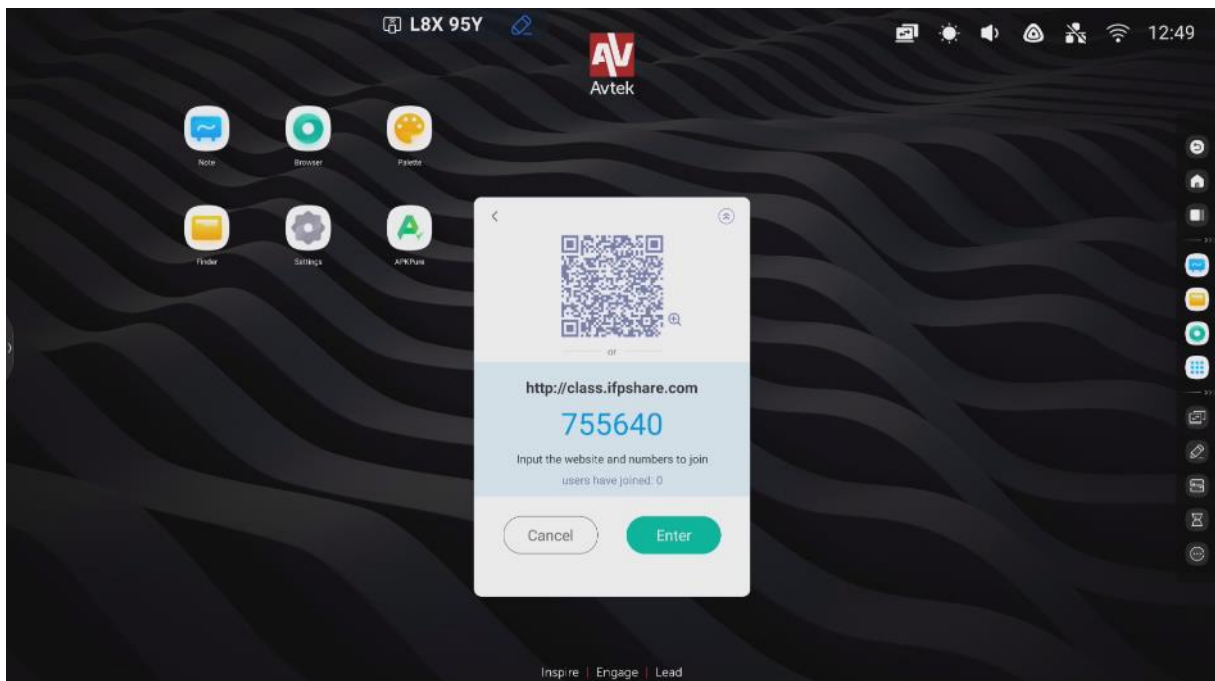


## How to use AirClass

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



By touching QR icon in the top right corner of the window QR code can be displayed.





In order to be able to use the AirClass feature:

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





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




3. Scan the QR code or copy the URL address displayed under it into the address bar of your web browser. If you have the latest version of the firmware installed, you can skip that step and open <http://class.ifpshare.com> in your browser and input the code shown on the screen there.
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.



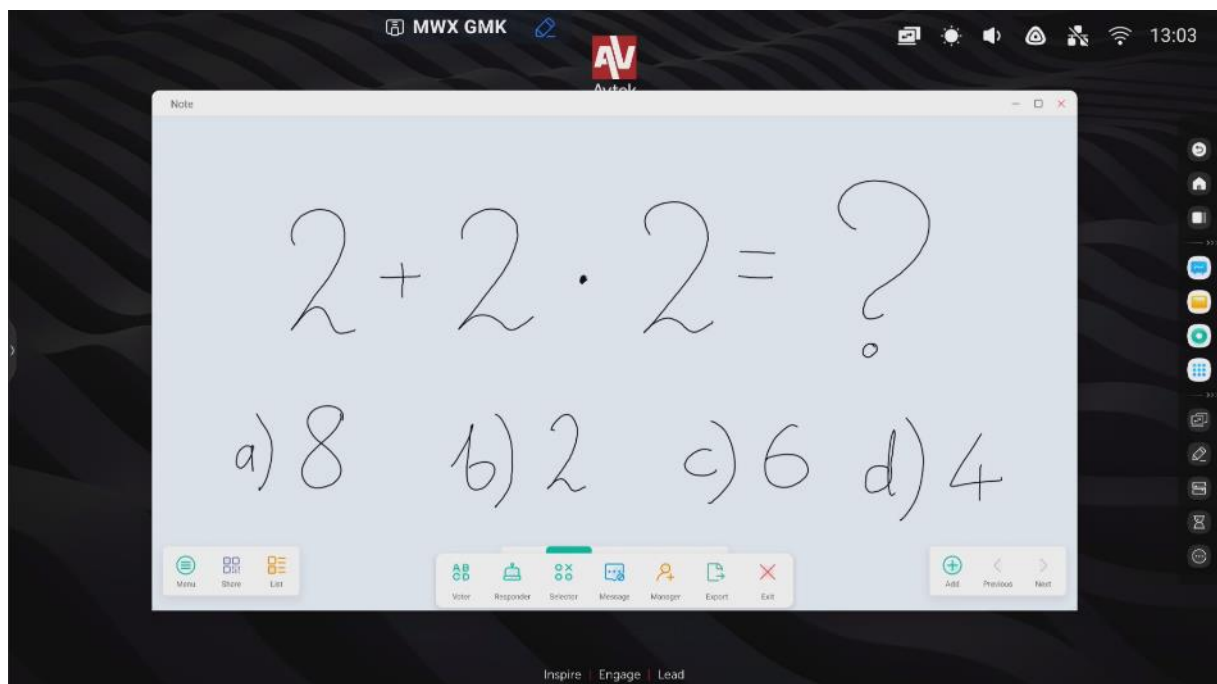
AirClass can be used in the following modes:

- **Voter**  (Poll), which can be conducted either in a single choice or a multiple choice mode.
- **Responder**  (Winner takes all) – the first person who responds using their device is indicated as 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 the following icons to:

-  display the QR code again,
-  export the results,
-  exit AirClass.

### **Voter (Poll)**

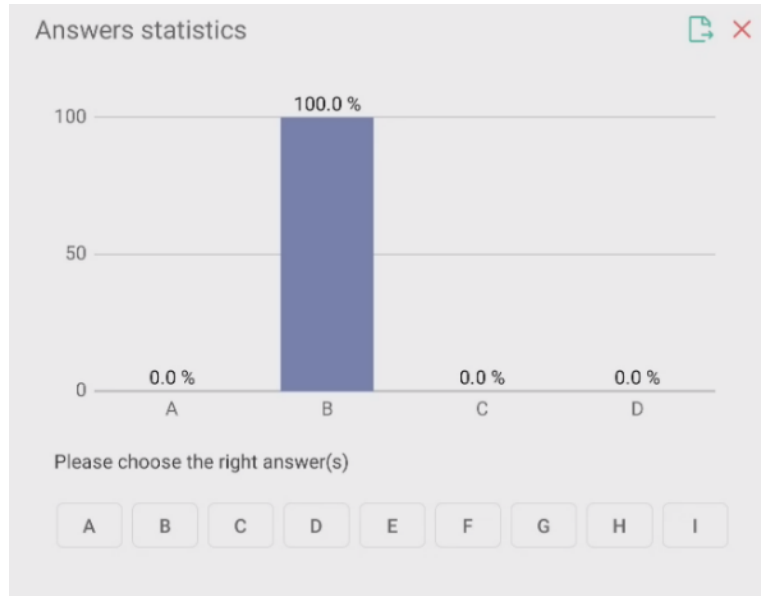
Scenario example: A question is asked using Note and the answers are collected using the single-choice Voter mode.



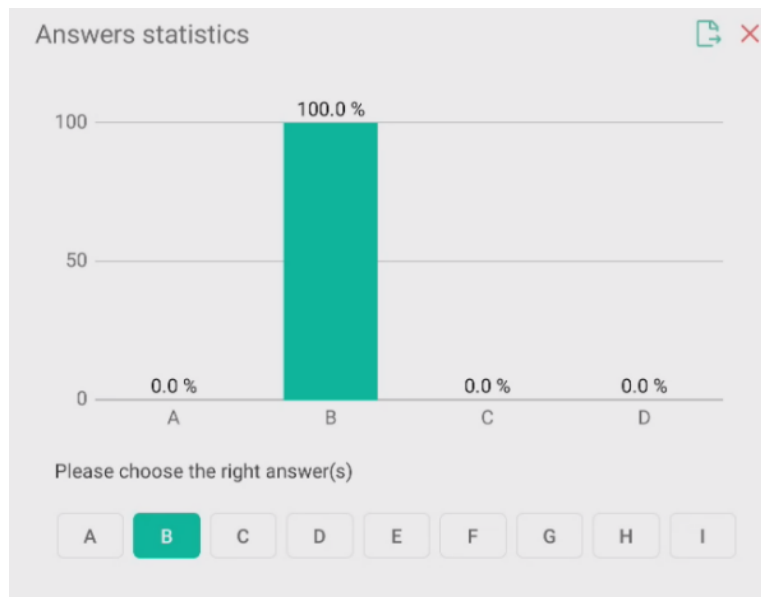
1. To start collecting answers (votes) from the audience, click **Begin**. Names of the

users who have submitted their answers (votes) will be marked with blue icons on the list.

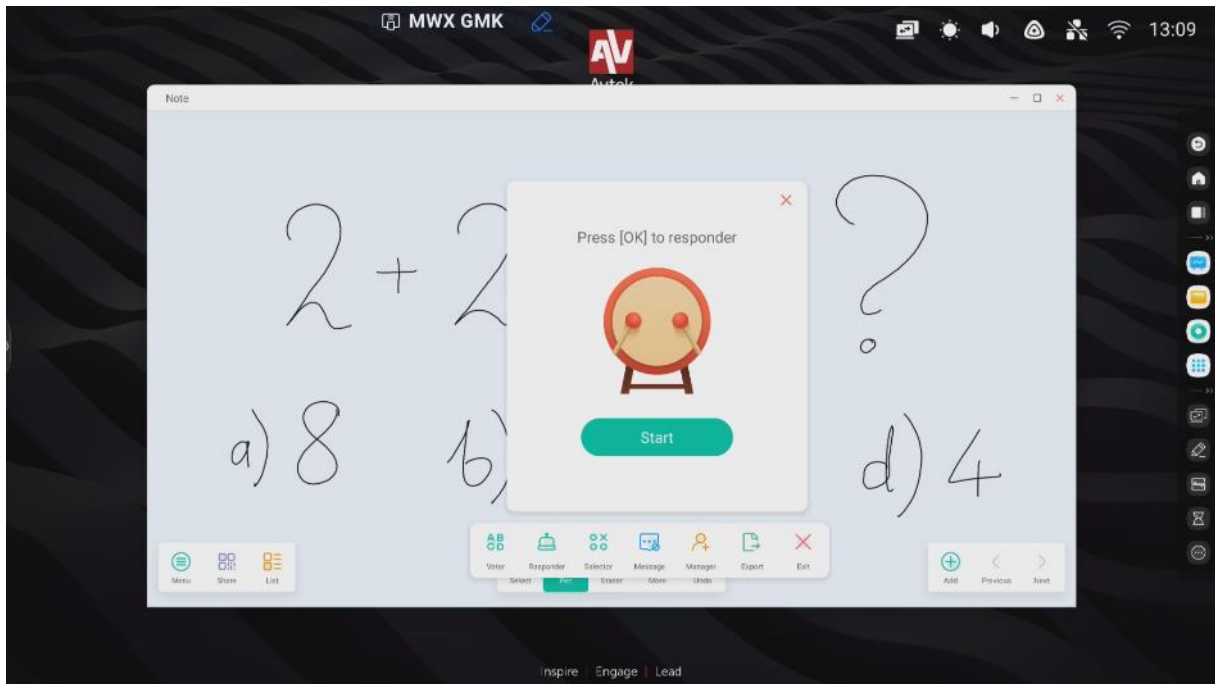
2. To end accepting answers, click **Finish**. The answers (votes) statistics screen will appear.



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



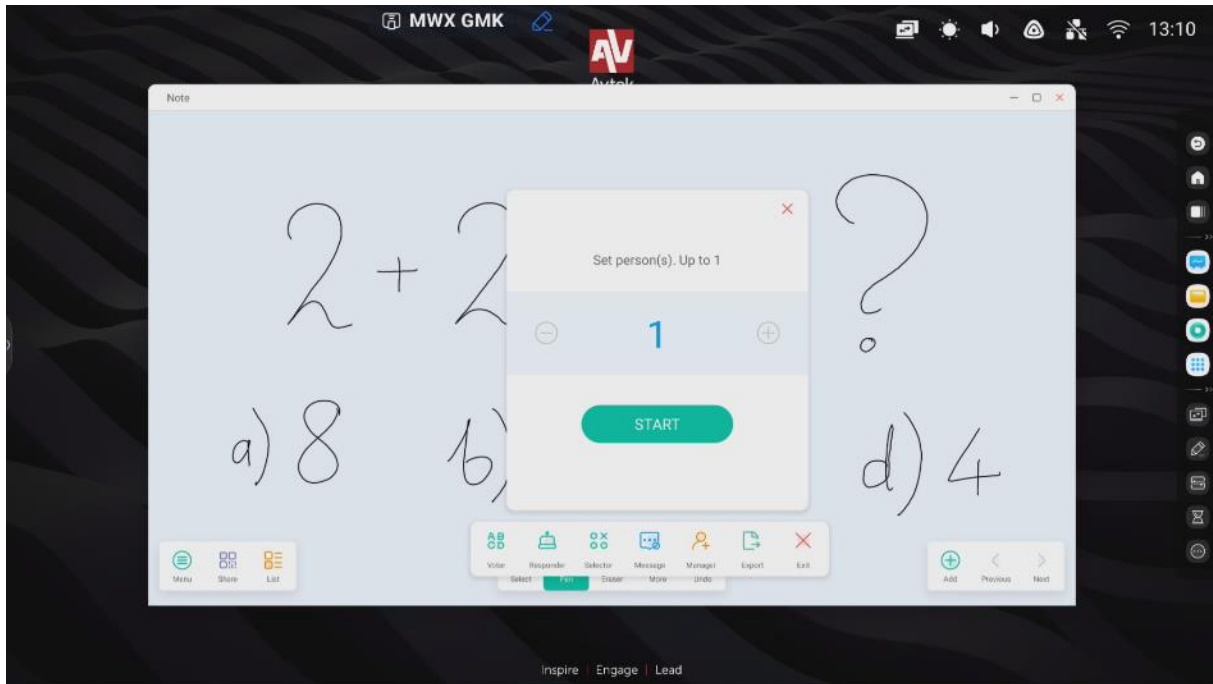
### **Responder (Winner Takes All)**



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.

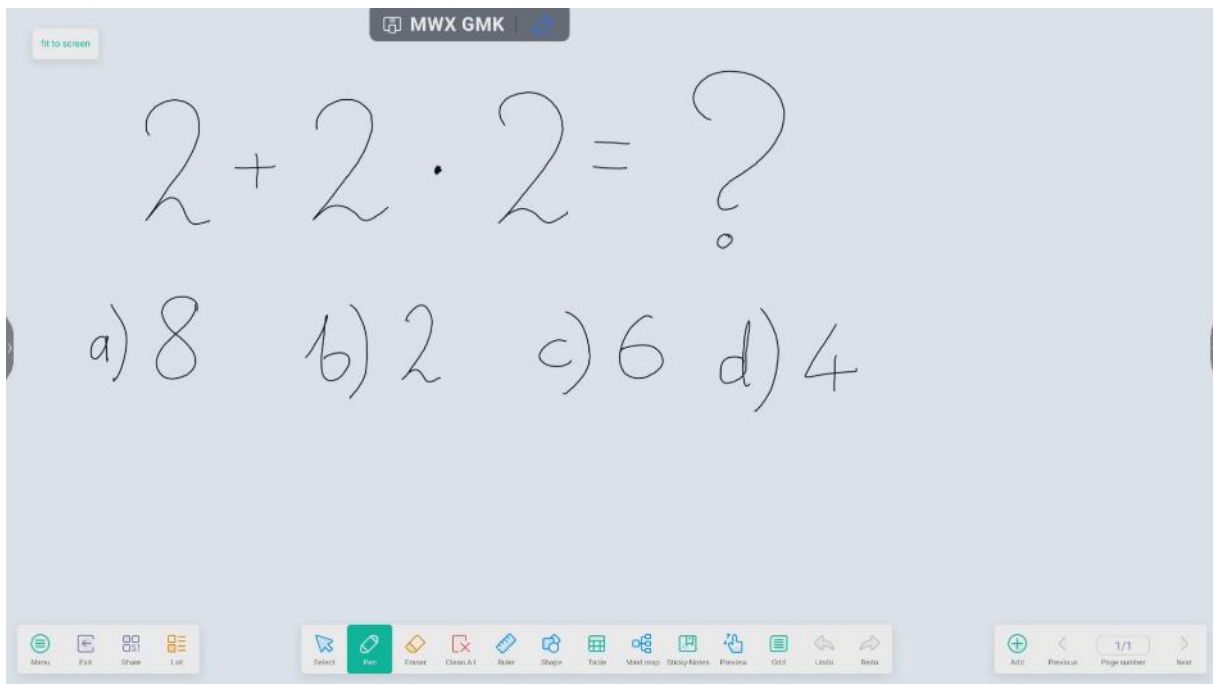
## Note – the annotations app




To start Note, touch its icon on the desktop:


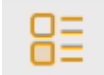


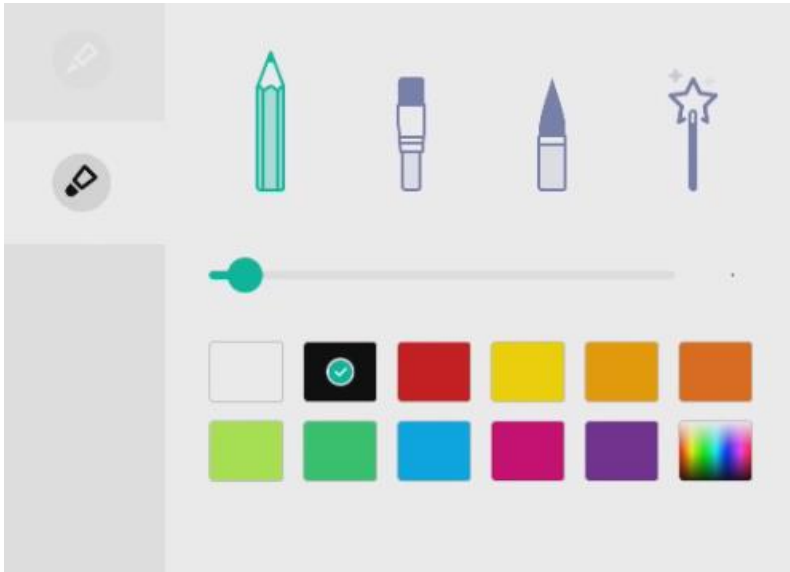



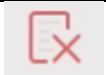

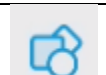
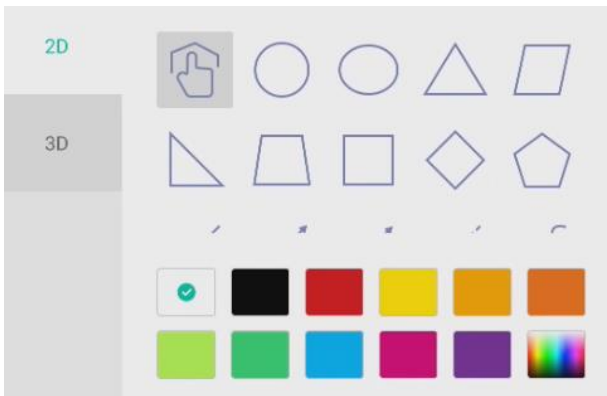
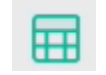




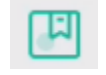
The app provides a workspace that works as a virtual chalkboard which you can write and draw on, including making handwritten notes on any images pasted into it.

### Basic operation





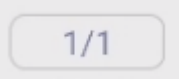
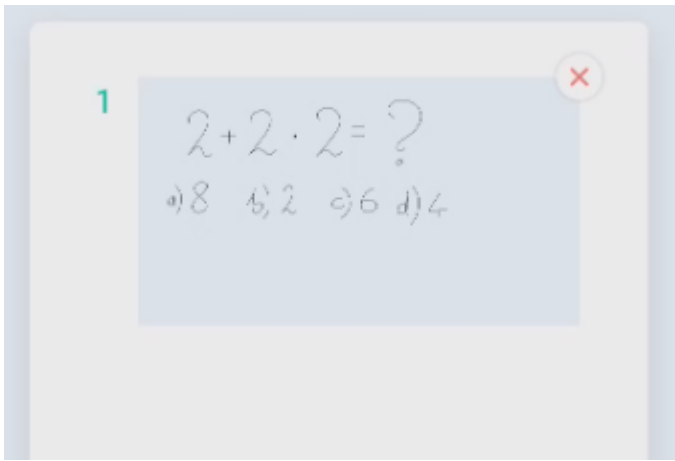


Icon	Name	How it works
	Menu	Opens a menu that offers additional tools.
	Exit	Exits Note.
	QR Code	Shares a QR code which enables users to download all notes to their devices simply by scanning it.

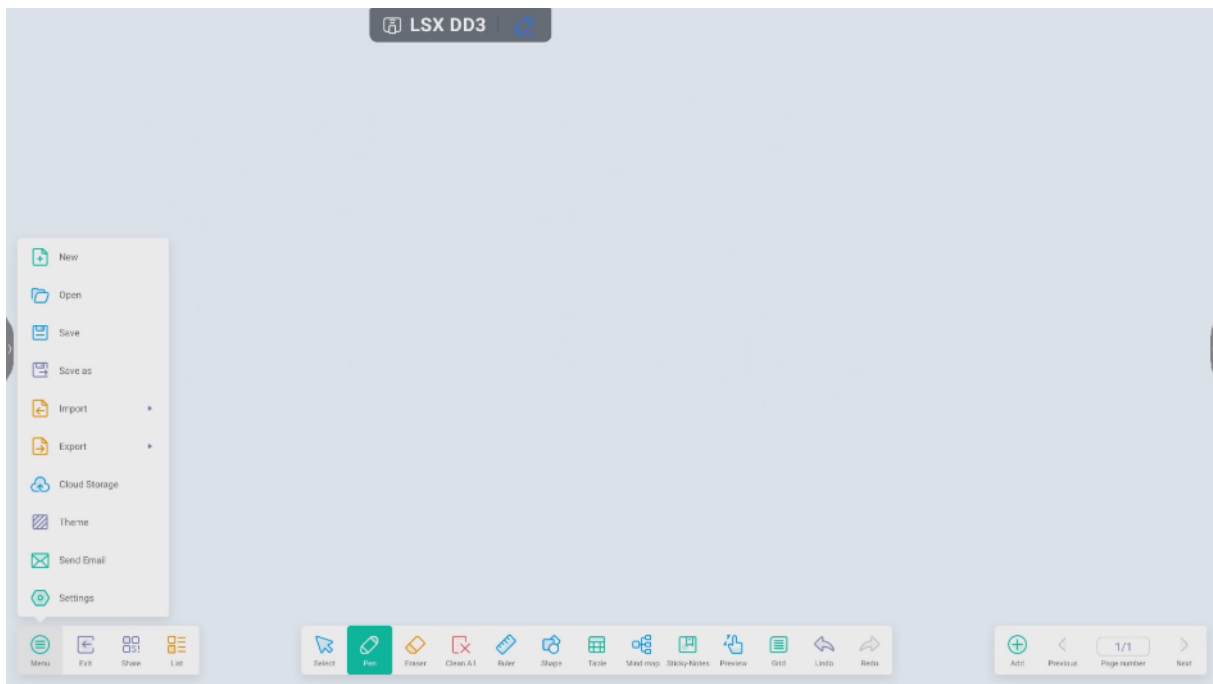
		 <p><b>NOTE:</b> All mobile devices used by the audience must be connected to the same WiFi network as the interactive display.</p> <p><b>NOTE:</b> Click the QR code to zoom it in, which will enable the audience to scan it even from a greater distance.</p>
	List	Makes a list
	Select	The Cursor can be 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</p>

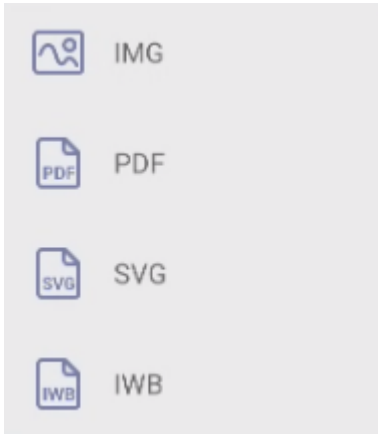
		thicker or thinner writing tools.
	Eraser	<p>Use it to erase (delete) handwritten annotations and objects.</p> <p><b>NOTE:</b> <i>You can also erase annotations by placing your entire palm on the screen. Please note: that technique does not let you erase objects.</i></p>
	Clear	Clears the entire sheet shown on the screen.
	Ruler	This feature allows you to insert some basic mathematical tools: a ruler, two types of squares and a protractor.
	Shape	<p>Use it to draw objects.</p> <p>Touch again to select the type and colour of the object you want to draw.</p> 
	Table	Inserts a table.
	Mind map	Inserts a Mind map.
	Preview	This feature can be used to move the entire page and to zoom it in and out.
	Undo	Undoes the most recent action.
	Redo	Undoes the most recent “undo” operation.
	Sticky	Lets you add an annotation using an on-screen keyboard.




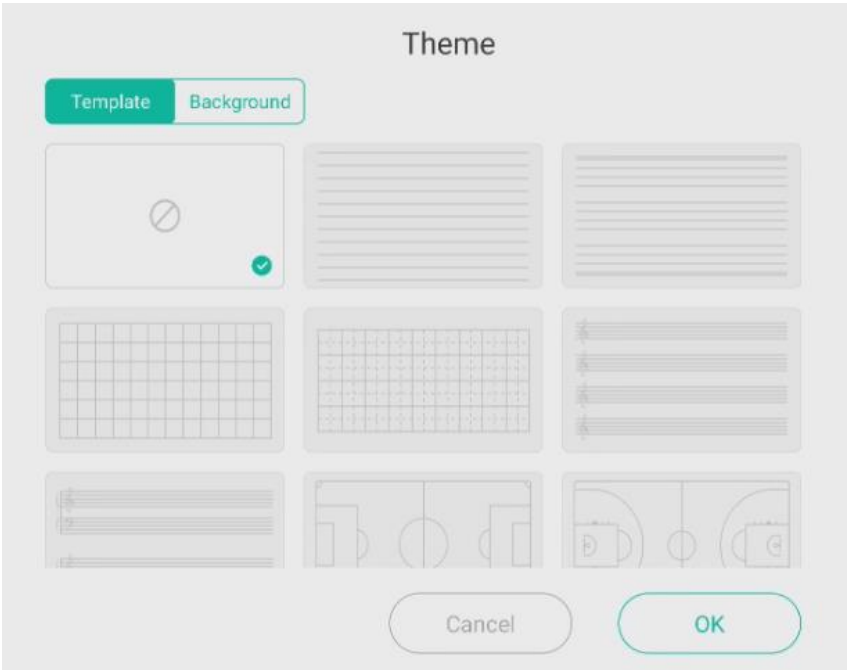




	notes	
	Grid	Lets you add a grid.
	Add page	Adds a new page.
	Previous page	Goes to the previous page.
	Next page	Goes to the next page.
	Page counter	<p>The counter shows how many pages are open and which page is currently shown.</p> <p>When clicked, it shows a navigation menu that contains a thumbnail preview of each page.</p> 

## Menu






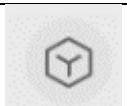
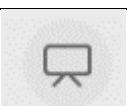
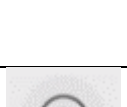
Icon	Name	How it works
	New	Opens a new empty document.
	Open	Opens an existing document.
	Save	Saves the current project.
	Save as	Saves the current project as...
	Import	Use it to import a file to the current page. You can import and embed images, PDF and SVG files.  

	Export	Use it to export the existing notes by saving them in file formats listed in the “Import” section.
	Cloud	Sends the existing notes to the cloud. This feature is discussed in more detail in the Cloud Drive section further in this manual.
	Theme	Use this feature to set a plain colour, a pattern or a custom image as the background. 
	Send by email	Lets you share the project by e-mail.
	Settings	Use the Settings to customise certain additional features, e.g. set your desired brightness level while you use the app, or disable the option to draw with 2 pens simultaneously.

## System settings

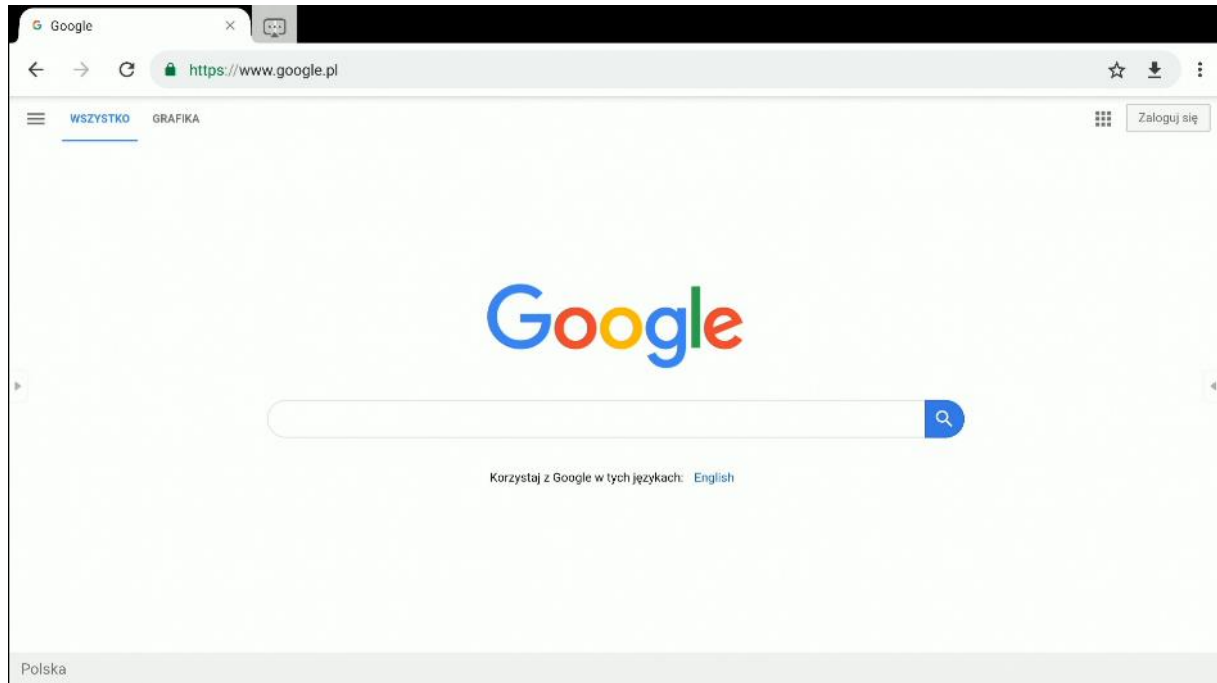
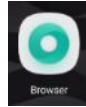
To open the operating system's Settings, click



Icon	Name	How it works
	Wireless and Ethernet	Set up your wireless (WLAN) settings, Ethernet, Hotspot, Bluetooth or VPN.
	Personalise	Set up your background, multi-window mode and some other custom settings.
	Input and Output	Set up the sound, peripheral devices or any other external audio or video sources here.
	App	Manage your apps here.
	System	You will find basic system settings of your device here, such as the language, date and time, system updates or security settings.
	About	Displays some key details of your device.

## Web browser

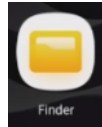
To open the web browser, click



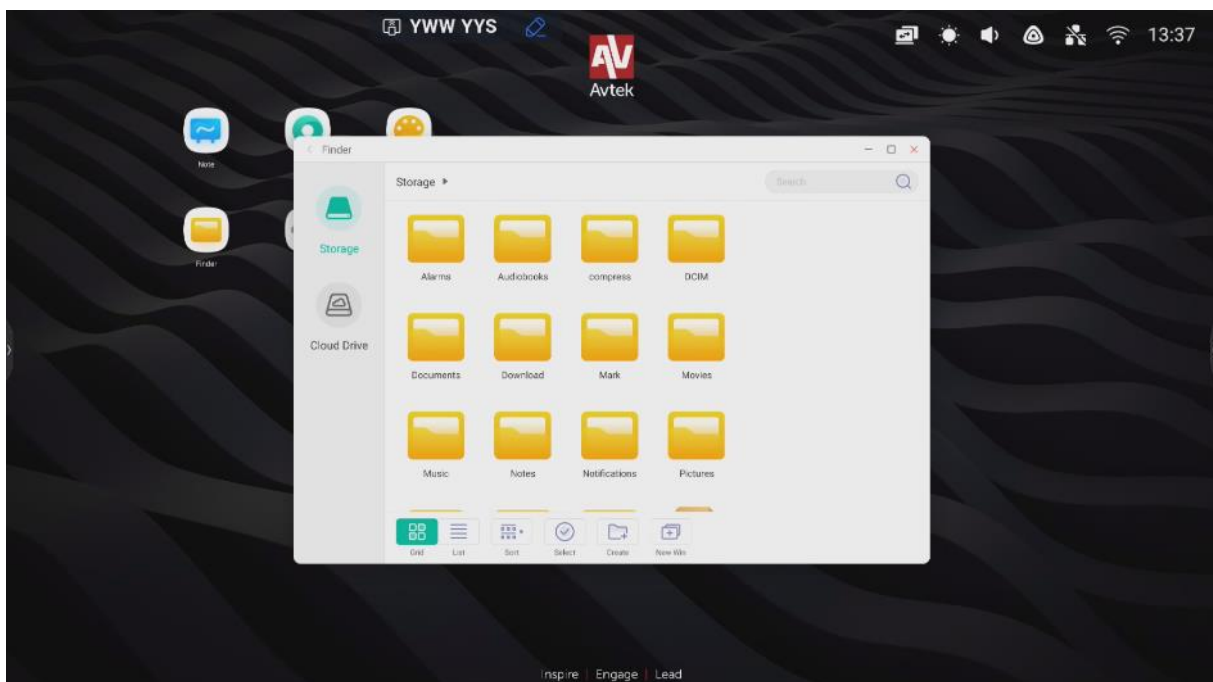
## Finder – a file manager




### 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 pen drives.



Icon	Name	How it works
	Grid/list	Show files on a grid or as a list.
	Sort	Choose the file sorting method here.
	Select	Enable selection mode to select multiple items.

	New folder	Create a new folder.
	New window	Open another instance of Finder in separate window
	Copy	Copy the selected item to clipboard.
	Paste	Past 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.
	Send	Share the selected file: - to a connected USB drive - using a QR code - create desktop shortcut <b>NOTE:</b> <i>All mobile devices used by the audience must be connected to the same WiFi network as the interactive display.</i>

## 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. It will be displayed in a new window.

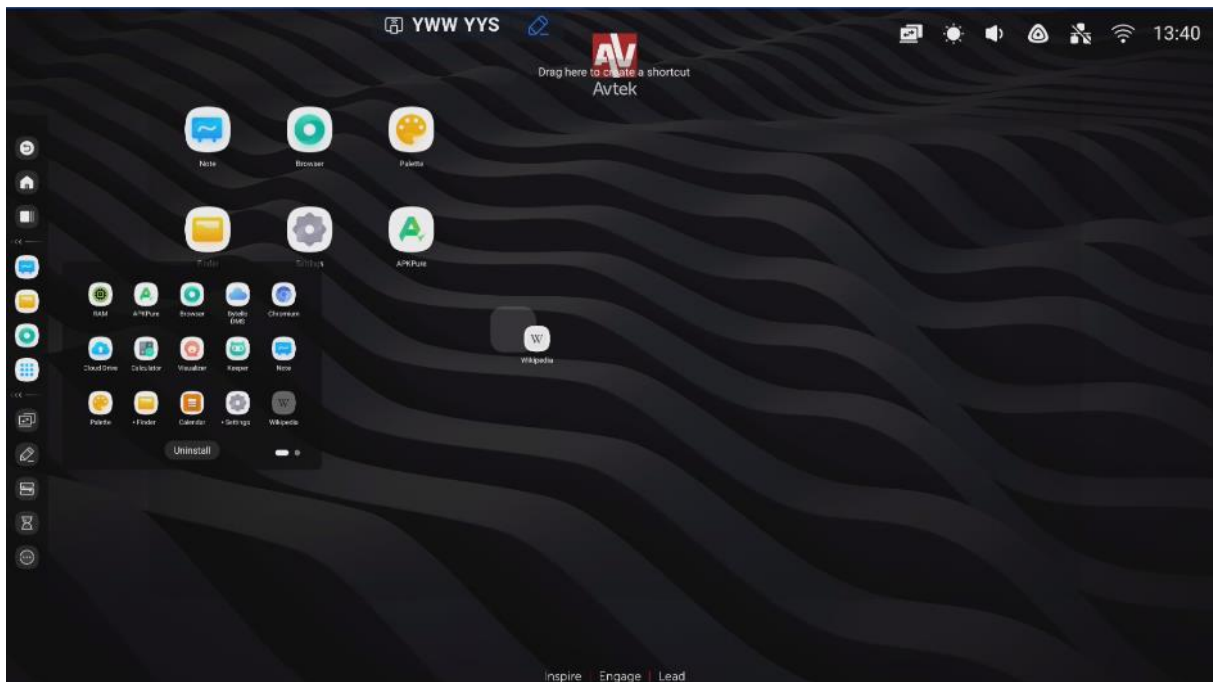
2. Touch the **Wallpaper** button.
3. Select **Set as wallpaper**.

## Desktop settings

### Shortcuts

You can place application shortcuts on the desktop. In order to add an app to a desktop:

1. Touch and hold an app on the side bar.
2. Drag the app icon to the display's desktop.



## Bytello Share

Bytello Share 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.

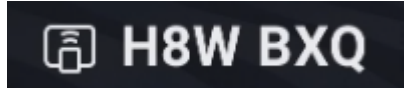
### NOTE:

*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 open **Bytello Share** touch either



or



icon.



*Compatible operating systems:*

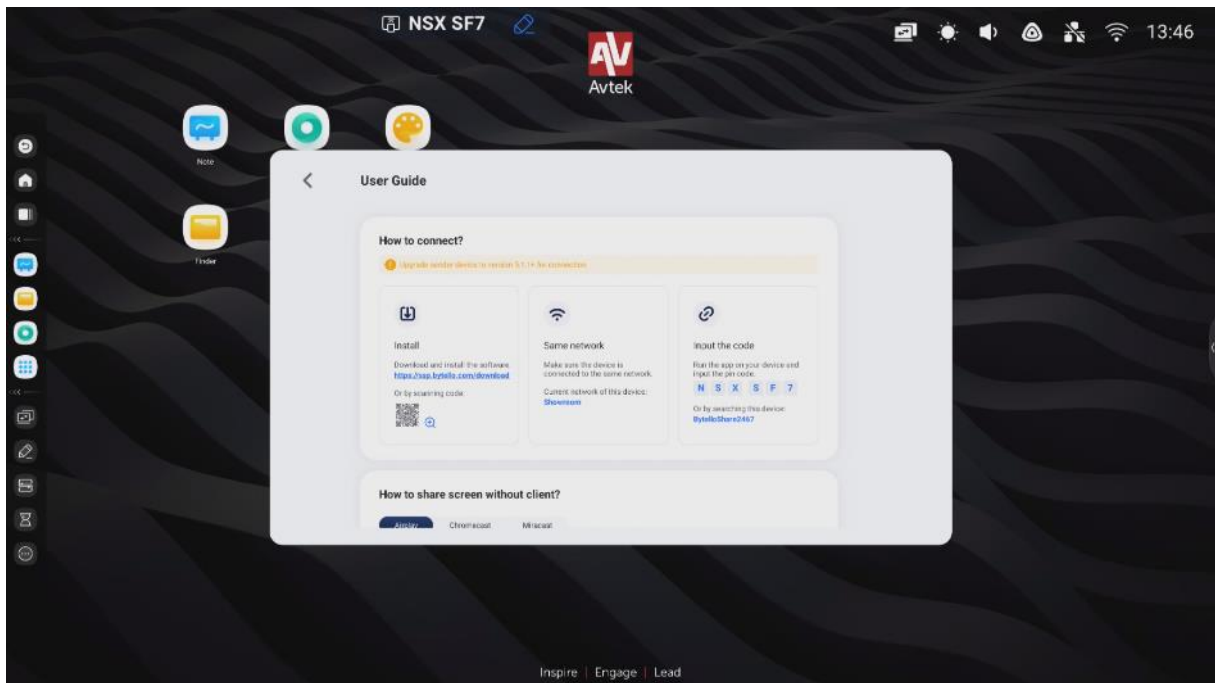
- Windows 7, 8, 10, 11
- MAC OSX 10.8 or newer
- iPhone iOS 9.0 or newer
- Android 5.0 or newer

*Instructions for mobile device users:*

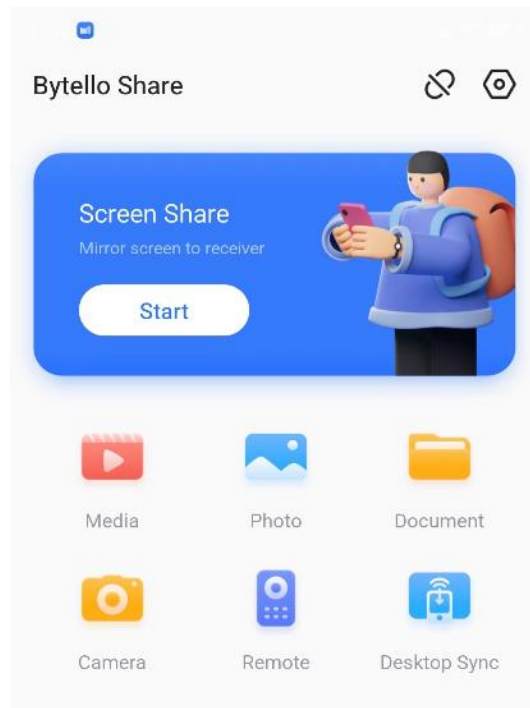
1. Download the Bytello app.


If your device runs Android or iOS, you can download Bytello 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.



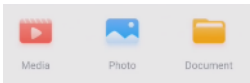
2. Input the code displayed on the interactive display in the prompt box shown by your mobile app to pair it with the display.



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

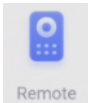
**NOTE:** Up to four mobile device users can mirror their screens on the interactive display simultaneously.

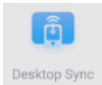
To stop mirroring your device screen, click 

- The  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 

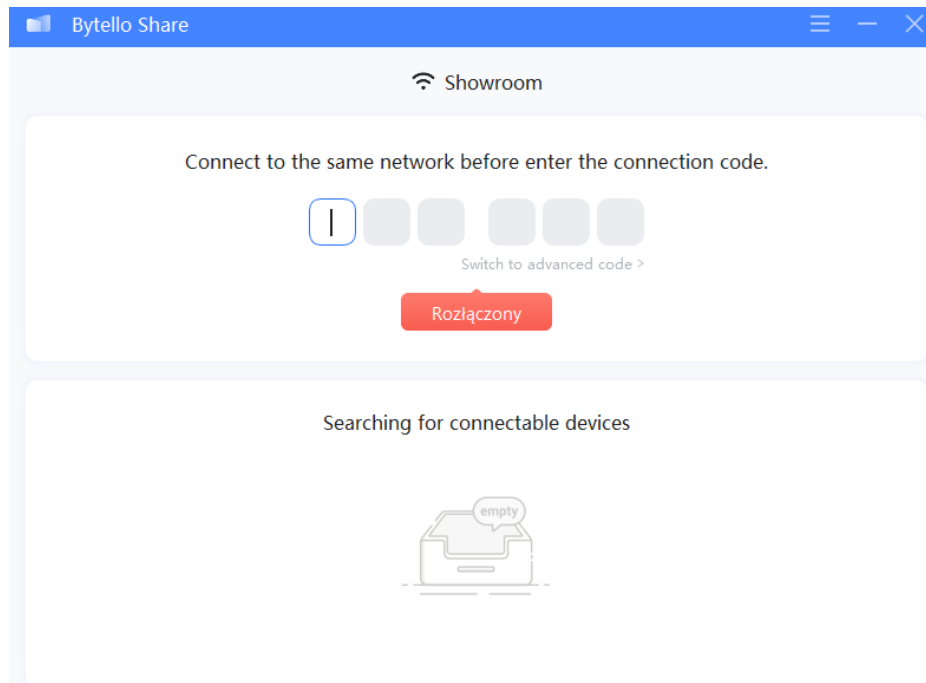
In this mode you can choose between image quality and frame rate, and you can freeze the video on the screen at any point.

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

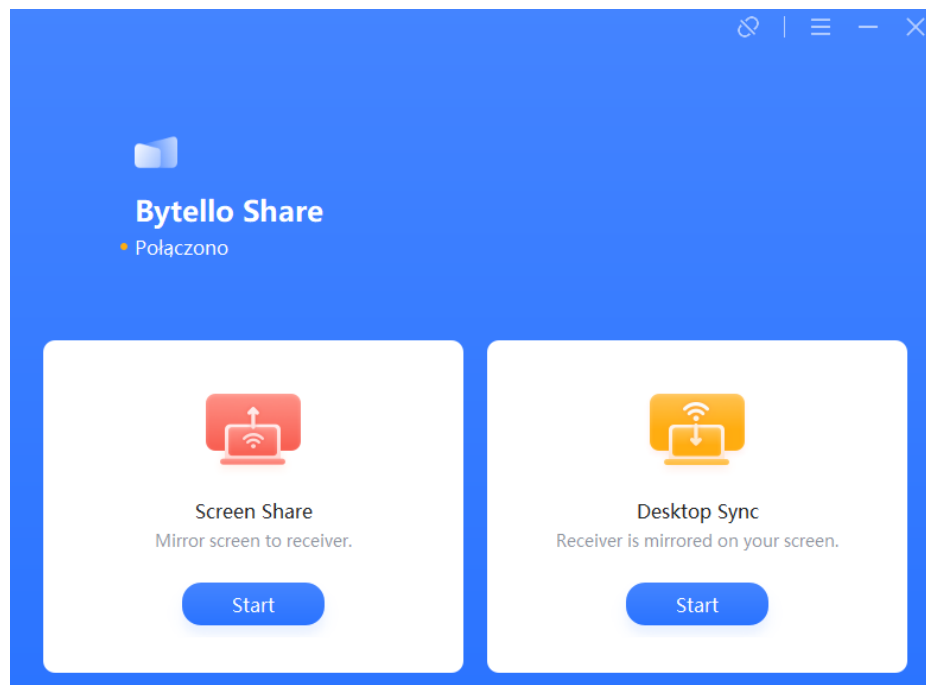
- Click  to mirror the interactive display's screen on the mobile device and control the display.

### *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 "Screen Share" to start mirroring the PC screen on the interactive display.
  - Click "Desktop Sync" to start mirroring the interactive display's screen on your PC.
- The Bytello share app also comes with Chromecast, AirPlay and Miracast capability, which allows compatible devices to share their screen without proprietary software.

## Using the installed apps

**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  icon from the side bar.

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 that, select the key sequence INPUT-1-3-7-9 on the remote control unit to open an additional menu. Once it has been displayed, use it to access the relevant page of Android operating system settings and set the **“Install from unknown sources”** option to **“On”**.

### ApkPure

To open the Apkpure app store, select



### Calculator

To open the Calculator, select




### Calendar

To open the Calendar, select



## Palette

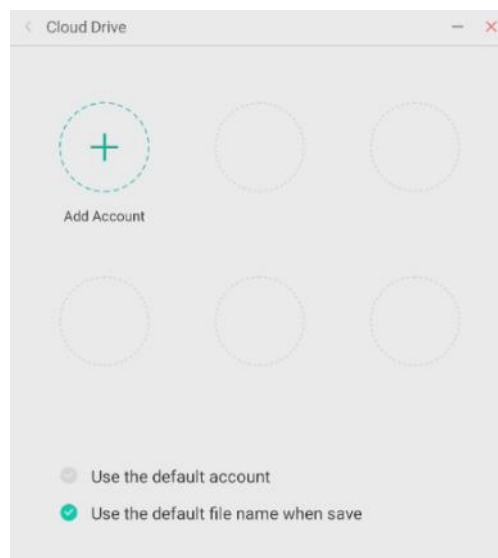
Use  to emulate brush or crayon and to select custom colours manually.

## 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.*

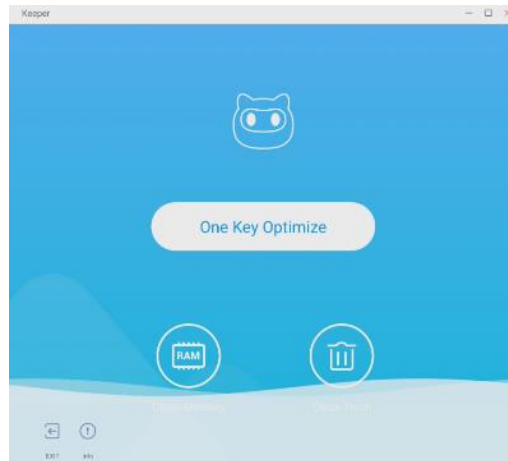
3. Log in to your account by following the instructions shown on the screen.

## 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.

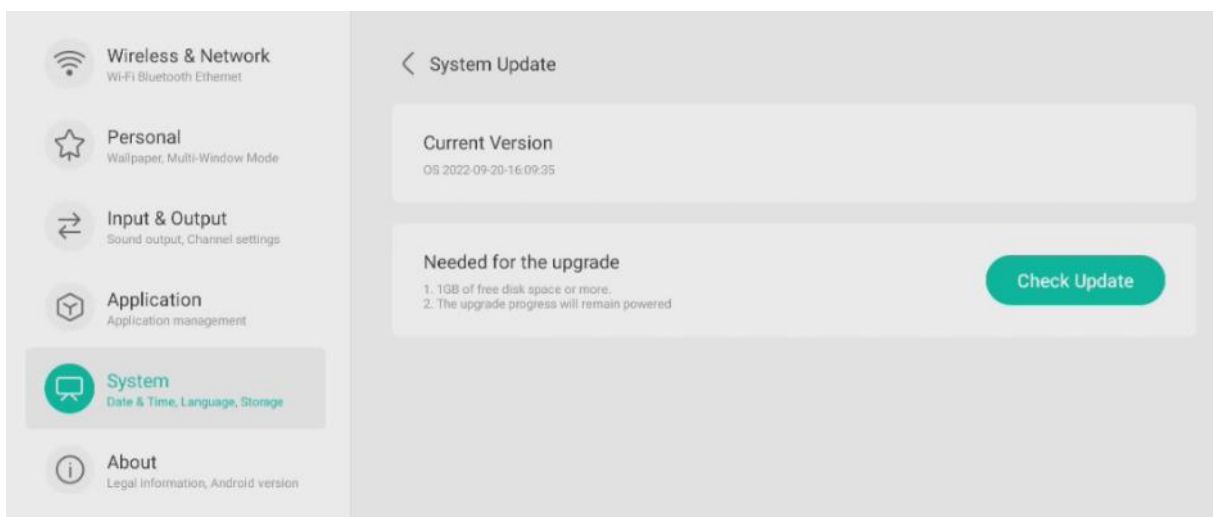


## Firmware updates

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 update feature can only keep the firmware of the display and its features up to date. It does not update the Android operating system, which remains unchanged during the entire life of the display.*

To check for firmware updates manually, go to **Settings** and touch the **System** tab. Next, select **System update**. Finally, select **Check for updates**.



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.