SYNETECH

User Manual Piscis

P6579, P7579, P8679

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1. Digital panel features

1.1 Specifications

Model	
P6579	Piscis 65”
P7579	Piscis 75”
P8679	Piscis 86”
Panel	
Dimensions (inches)	65” | 75” | 86”
Panel type	LCD VA
Aspect ratio	16:9
Display area	65”: 1.428,48 x 803,52 mm
	75”: 1.650,24 x 928,26 mm
	86”: 1.895,04 x 1.065,96 mm
Pixel Pitch	0.372 x 0.372 mm
Resolution	3.840 x 2.160 4K
Refresh rate	60Hz
Display colours	1.07B (10 bit)
NTSC	72%
Contrast ratio	5000 : 1
Viewing angle	178º (H/V)
Backlight	DLED
Standard brightness	350 cd/ m2
Operating time	7 days x 16 hours
Lifespan	≥ 30.000 hours
Response time	6.5 ms
Firmware	

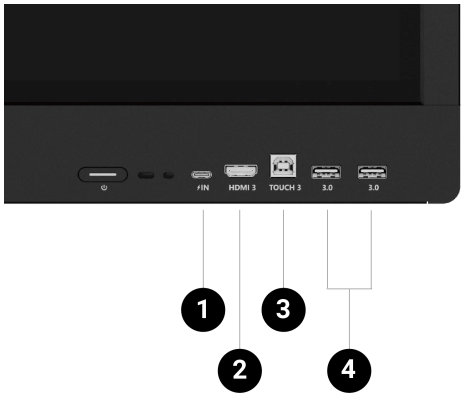
OS	Android 14 | Google EDLA
RAM	8G
ROM	128G
CPU	Core Cortex - A73
GPU	Mali G52 MC1
Touch System	
Sensor type	Infrared recognition
Touch tool	Passive pen / Finger / Palm
Accuracy	± 1.5mm
Touch points	40 with Windows and Android
Minimum object size	3mm
Writing height	≤ 2mm
Response time	≤ 10mm
System	Windows 10, Windows 8, Windows 7 Windows XP, Android, Linux, MacOS, Chrome
Audio	
Channel	2.0
Speaker	2 x 16W
Sound pressure	84dB
Connectivity	
HDMI IN	3 (4K@60Hz)
HDMI OUT	1 (4K@60Hz) - *Optional*
USB -A 2.0	2
USB -A 3.0	3
USB -C IN	2 (1 on the front with up to 65W charging, 1 on the back with 5W charging)
USB Touch 2.0	3
VGA IN	1 (up to 1080P@60Hz)
Display Port IN	1 (4K60Hz)

Audio IN	1 (3.5 mm Jack)
Audio OUT	1 (3.5 mm Jack)
SPDIF	1
RS232	1
RJ45 IN	1 (10M/ 100M/ 1000Mbps)
RJ45 OUT	1 (10M/ 100M/ 1000Mbps)
TF Card slot	1
OPS slot	1
Wi-Fi module	Wi-Fi 6
Bluetooth	5.0
Power	
Power requirement	100-240V~ 50/60Hz 4.0A
Standard consumption	65”: 180W
	75”: 230W
	86”: 245W
Maximum consumption (with OPS)	65”: 335W
	75”: 385W
	86”: 400W
Environmental parameters	
Operating temperature	0ºC a 40ºC
Storage temperature	-20ºC a 60ºC
Operating humidity	10% a 90% (Non-condensing humidity)
Storage temperature	10% a 90% (Non-condensing humidity)
Physical parameters	
Dimensions	65”: 1.491 x 898 x 87 mm
	75”: 1.712 x 1.022 x 87 mm
	86”: 1.957 x 1.159,9 x 97,4 mm
Packaging dimensions	65”: 1.628 x 1.005 x 185 mm

	75”: 1.863 x 1.148 x 225 mm
	86”: 2.110 x 1.291 x 225 mm
Net Weight	65”: 36,15 Kg
	75”: 49,15 Kg
	86”: 53,33 Kg
Gross Weight	65”: 41,7 Kg
	75”: 56,6 Kg
	86”: 63,75 Kg
VESA mount	65” / 75”: 600 x 400 mm
	86”: 800 x 600 mm

1.2 Front ports

On the front of the interactive screen there is:



1	USB Type C	Input and output port, allowing data, video, and power transfer
2	HDMI	Allows connecting an external source, such as a computer
3	USB Touch	Enables panel interactivity with the device connected via HDMI
4	USB-A 3.0	Allows connecting peripherals to the interactive panel via USB, such as USB drives, mice, keyboards, external hard drives, or cameras

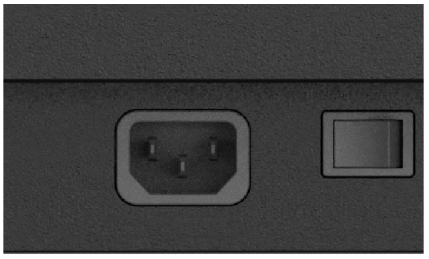
1.3 Front buttons

On the front of the interactive screen, there is the interactive panel's power button.

Function	Action	Colour
Power On	Short press	White light
Standby mode	Short press	Flashing White and Red Light
Power off	Long press	Red light

1.4 Rear ports

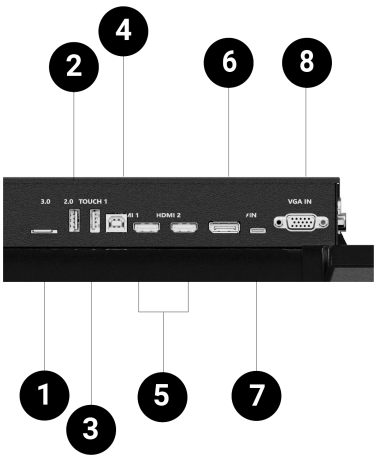
On the rear of the interactive panel, left side, there are:



- Power On/Off Switch
- Power connection

1.4.1 Rear side ports

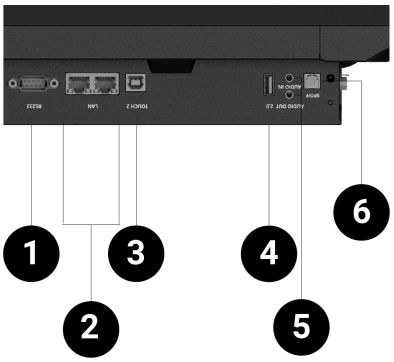
On the rear side there are:



1	TF Card Slot	MicroSD Card Reader
2	USB -A 3.0	Allows connecting peripherals to the interactive panel via USB, such as USB drives, mice, keyboards, external hard drives, or cameras
3	USB -A 2.0	Allows connecting peripherals to the interactive panel via USB, such as USB drives, mice, keyboards, external hard drives, or cameras
4	USB Touch	Enables panel interactivity with the device connected via HDMI
5	HDMI IN	Allows connecting an external source, such as a computer
6	DP IN	Allows transmitting high-definition video and audio between devices
7	USB - C	Input and output port, allowing data, video, and power transfer
8	VGA IN	Digital audio output (Note: VGA is typically video input, context suggests possible mislabeling)

1.4.2 Bottom rear ports

On the bottom rear there are:

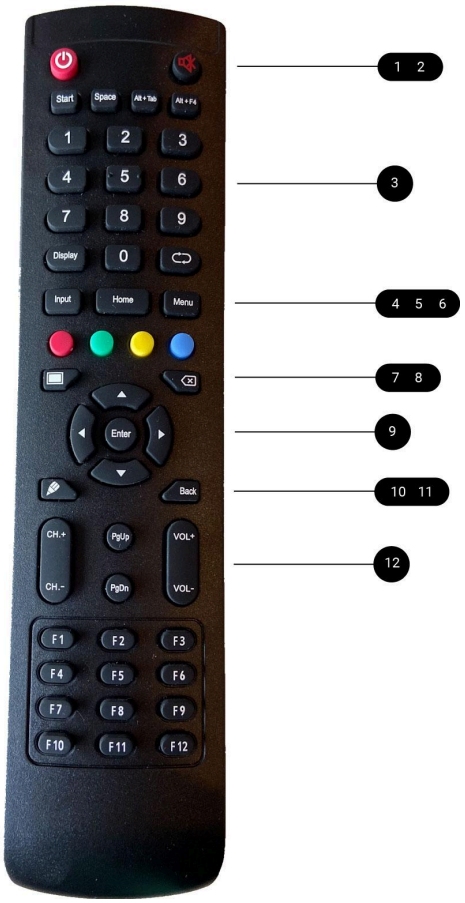


1	SPDIF	Allows transmitting digital audio between devices
2	Audio IN	Audio input
3	Audio OUT	Audio output
4	USB Touch	Enables panel interactivity with the device connected via HDMI
5	LAN	Allows connecting the panel to the local classroom/center network
6	RS232	Data connector

1.5 Remote control

The panel includes a remote control to access the different menus and functionalities.

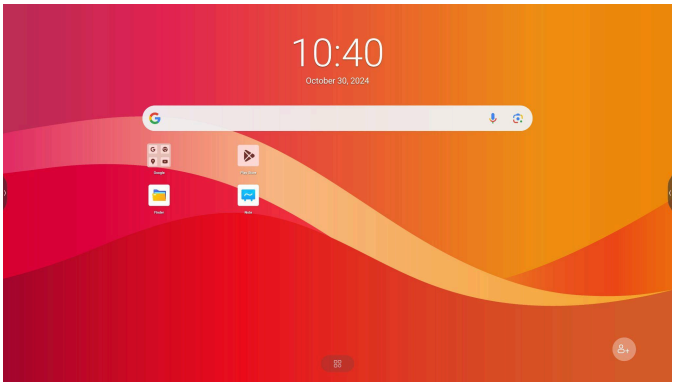
1.5. 1 Main Functionalities



1	Power On/Off
2	Mute
3	Number Commands
4	Access Inputs
5	Go to home screen
6	Go to Quick Settings Menu
7	Activate Screen Rest/Sleep
8	Delete
9	Navigate through different options and Accept
10	Access Whiteboard
11	Back
12	Volume Up/Down

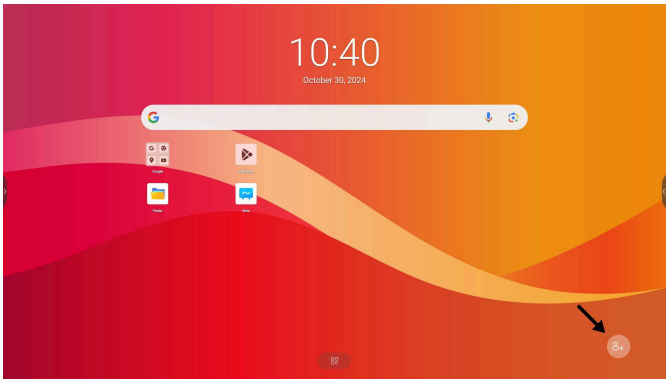
2. Digital Panel Management

2.1 Login



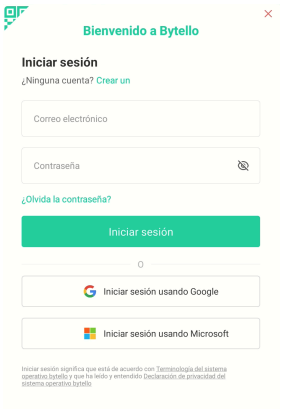
When pressing the power button, the following screen will appear.

To log in to our user account, we must tap on the icon located in the lower right corner.



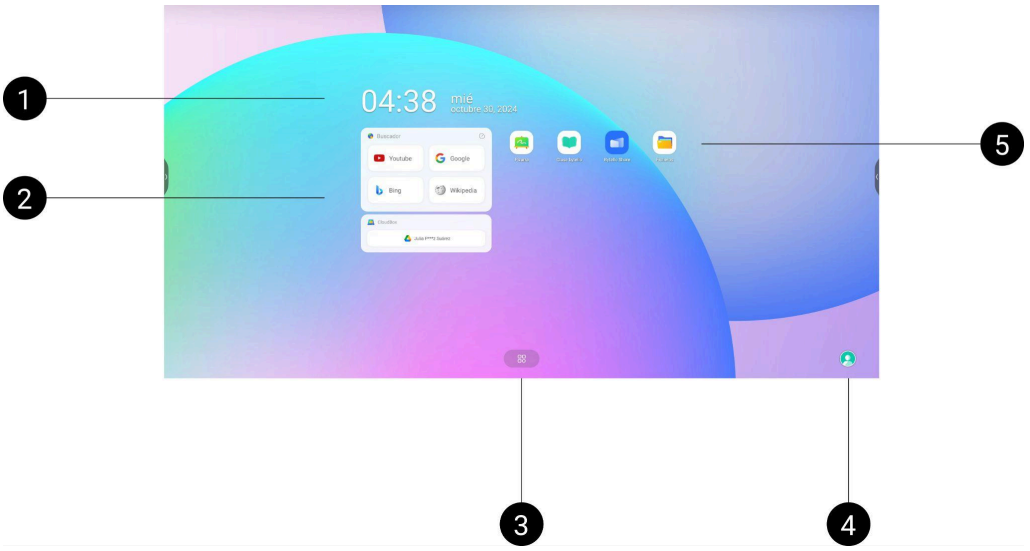
We can also access it from the app bar (2.4), by selecting the Bytello Account application.

The following dropdown will appear, where we can choose to log in by scanning the QR code or by entering our username manually:



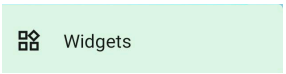
2.2 Home Screen

Once logged in, a home screen customized per user will appear on the interactive panel. By default, it has the following menu and toolbar:



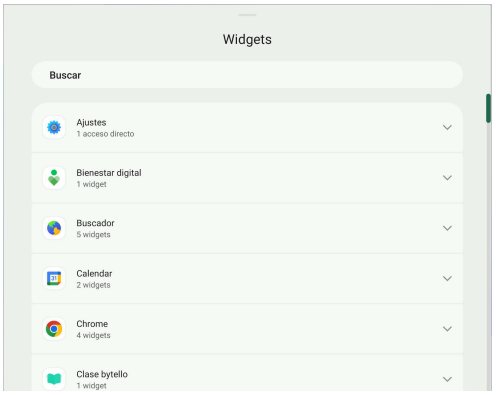
1	Date and Time	Direct access to date and time settings
2	Widgets	Edit and add widgets
3	Applications	Access to all installed applications
4	User	Synetech OS User
5	Shortcuts	Application shortcuts

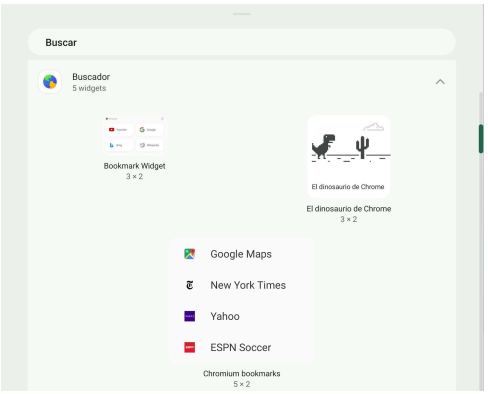
2.2.1 Edit Widgets



We can edit the widgets. When tapping on the screen, the following window will appear. We press 'Edit widgets'.

After pressing 'Edit widgets', the following window will appear, from where we can choose the widget and its format.



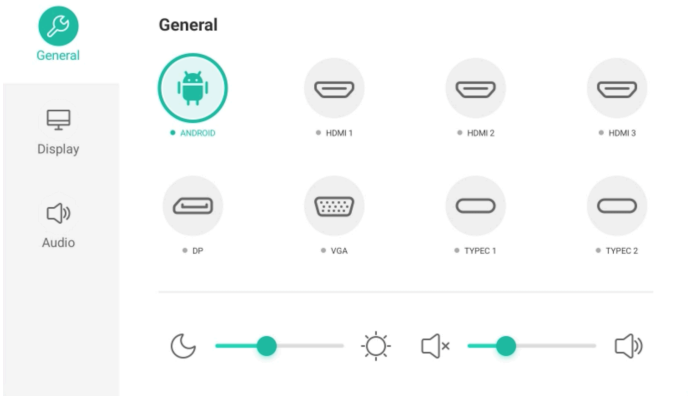


2.2.2 Add Shortcuts

To add applications as shortcuts, we press and hold the icon and drag it to the home screen.

2.3 Quick Settings Menu

We can access the quick settings of the interactive digital panel by pressing the inputs icon. From here, we can modify the inputs, volume, and brightness of the digital panel.

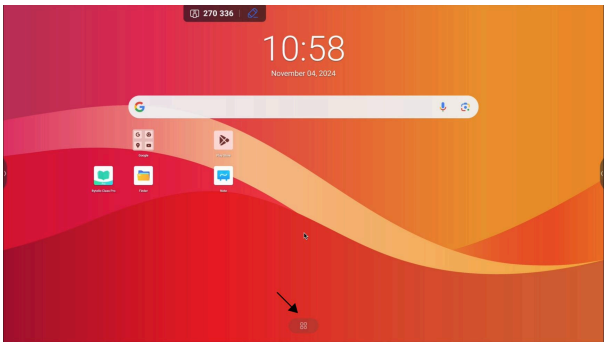


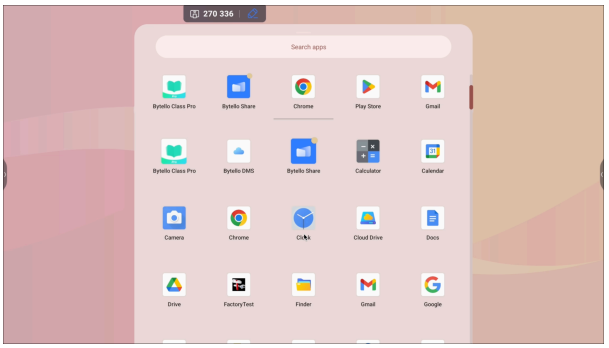
2.4 App Bar

The installed applications and tools are displayed on the sides of the screen. The side bars can be hidden and shown.

1	Back
2	Home Screen
3	Open Windows
4	Whiteboard
5	Files
6	All Applications
7	Inputs
8	Annotate/Mark
9	Screenshot
10	More Tools

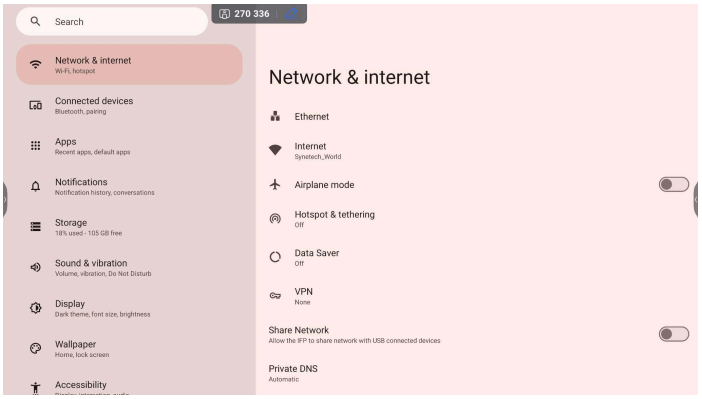
We can also access all installed applications via the icon located at the bottom of the screen.





2.5 Settings

To modify the panel parameters, we press All Applications in the app bar and then Settings.



2.5.1 Wireless Network

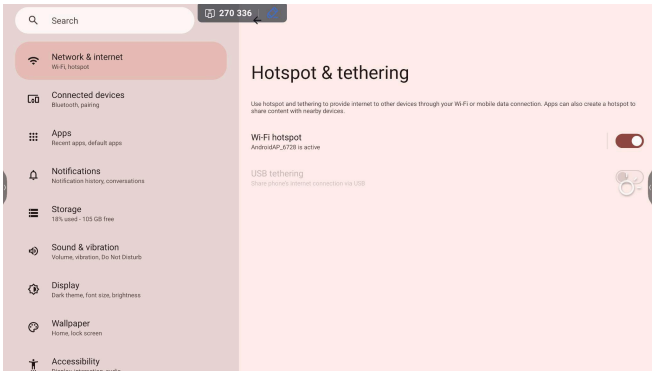
In this section, the wireless connections of the panel can be configured. Some common tasks are:

Connect the panel to the Internet

There are two options to connect to the Internet:

- Connect the RJ-45 connector by cable to the network port on the rear and activate Ethernet.
- Connect via Wi-Fi, by pressing on Wireless Local Area Network. Find the network you want to connect to and enter the password..

Create an Access Point



The panel can be configured as a Wi-Fi access point to provide Internet connection to several devices in the classroom.

To create an access point, press on Hotspot and activate it by pressing the button next to Hotspot.

2.5.2 Connect to the Panel via Bluetooth

To activate it, go to Connected Devices and press on the device you want to connect to.

2.5.3 Applications

From this section, we can access the history of recently opened applications and the time spent on each one.

2.5.4 Notifications

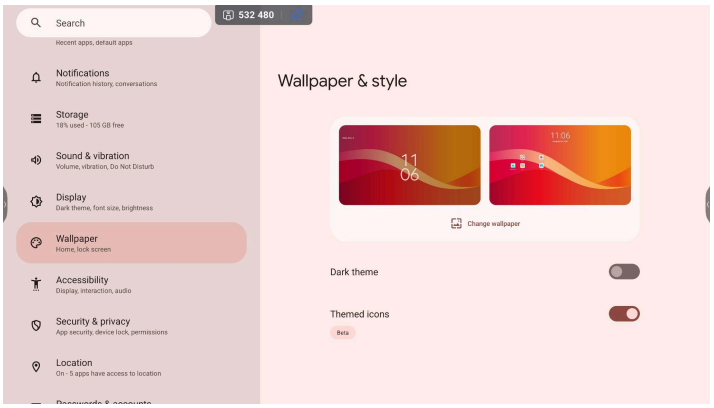
From this section, we can activate notifications.

2.5.5 Storage

In the storage tab, we can view the storage space occupied by document format and by application.

2.5.6 Wallpaper

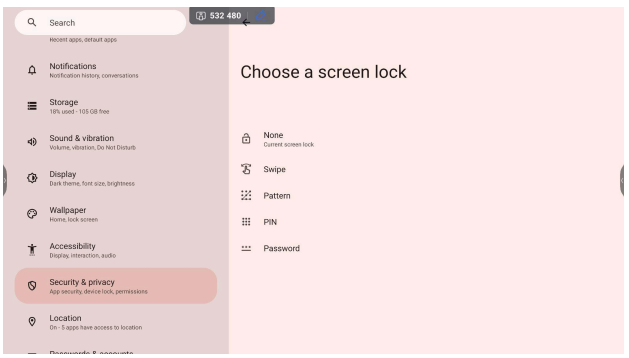
Change Wallpaper



To change the wallpaper, press on Wallpaper and set a predefined background or add a custom one.

2.5.7 Security and Privacy

To set a password on the lock screen, press on Security and Privacy and set the lock pattern.

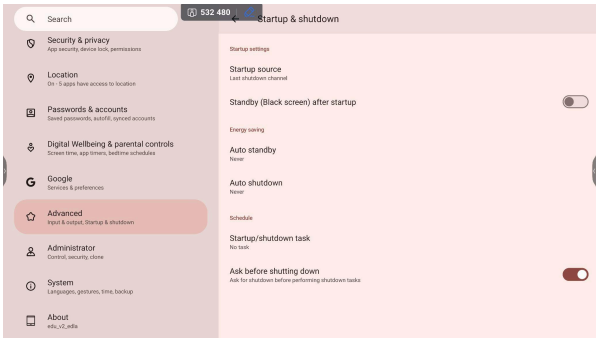


2.5.8 Passwords and Accounts

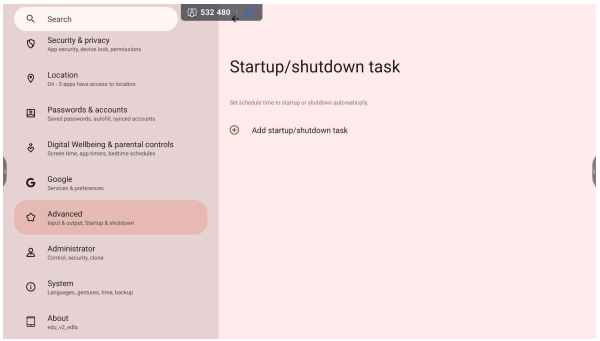
From the passwords and accounts tab, we can link our Google account to have direct access to all documents stored in the cloud of the Google Suite.

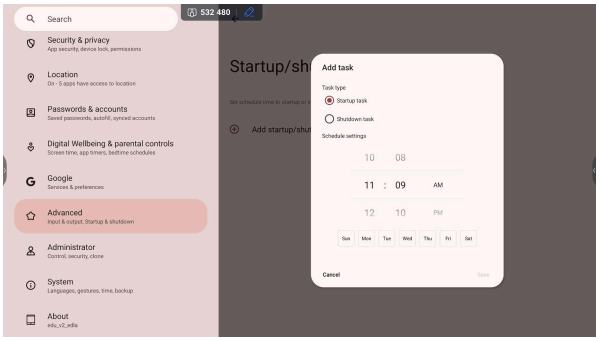
2.5.9 Advanced

From Advanced, we can modify the time and country. Additionally, we can set an automatic power on and off for the digital panel.



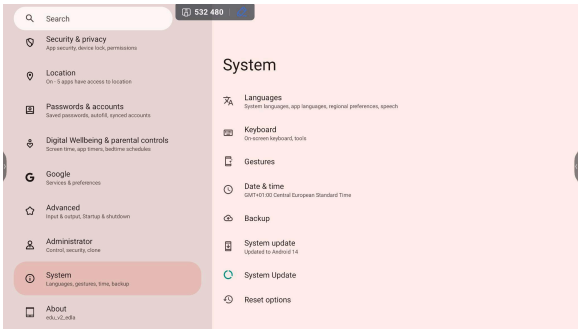
To set the auto power on and off for the interactive digital panel, press on Power On and Off > Power On and Off Task > Add and set the desired schedule.

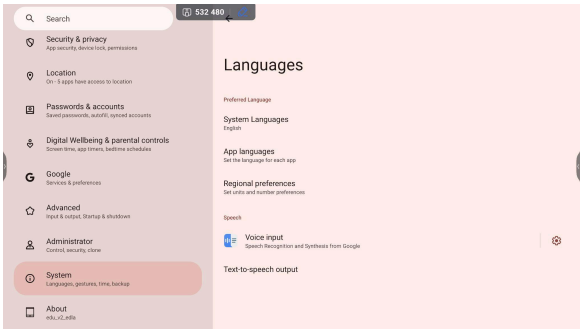




2.6 Change Language

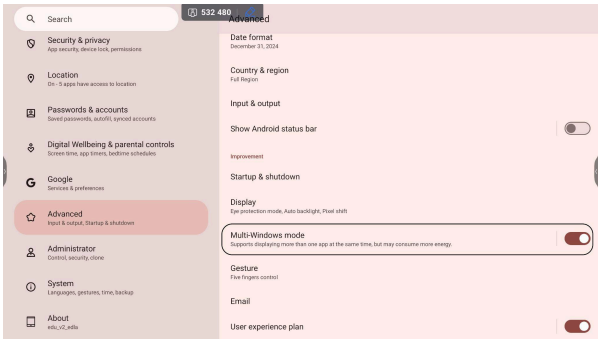
To change the language of our panel, access Settings > System > Language and select the language. We can set a language per application.

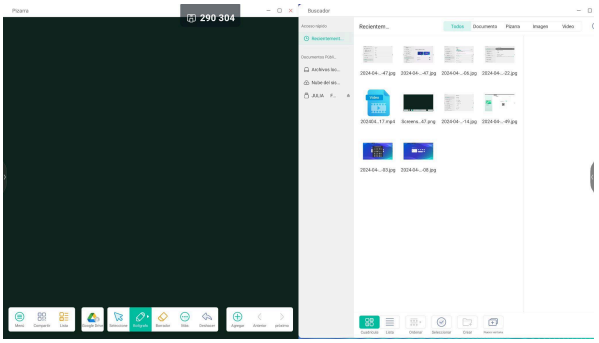




2.7 Multi-Window

From Advanced, we access Multi-window and activate it by pressing the button on the right. It will request a panel restart. Once restarted, we can place the different open windows across the panel screen and adjust their dimensions by pressing on the top/bottom or right/left sides of the windows.

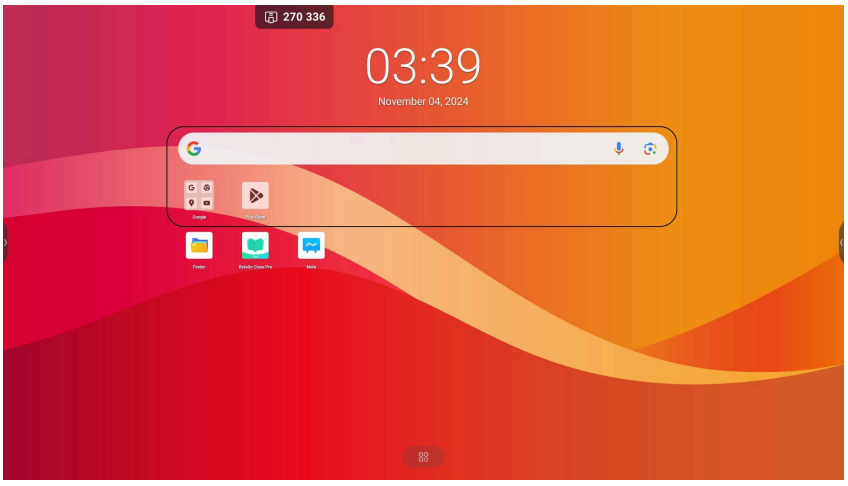




2.8 Google EDLA

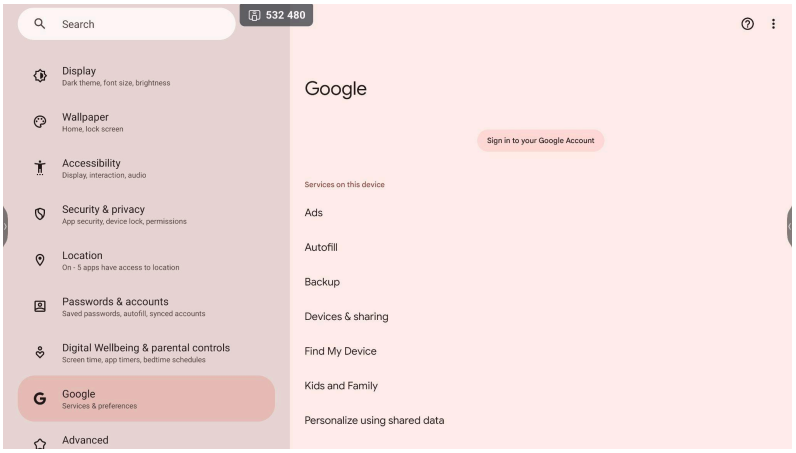
The interactive digital panel has the Google EDLA certificate. Thanks to this certification, the Piscis digital screen integrates all Google applications and services.

In addition to integrating the Google Play Store from where we can download all the applications we need to teach classes, it guarantees secure downloads and all of Google's privacy protection services.



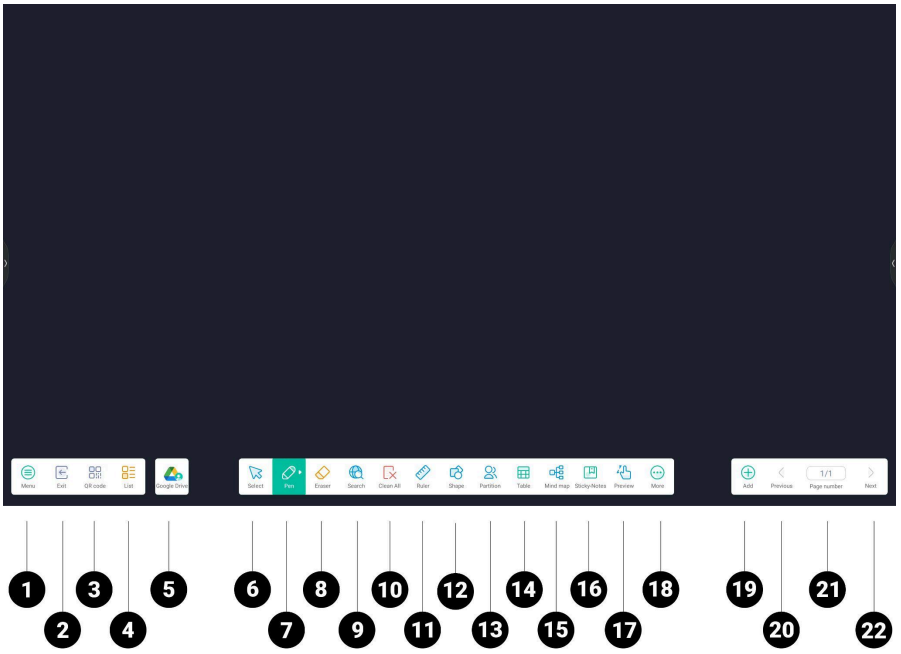
2.8.1 Link my Google Account to the Panel

To link our Google account to the interactive digital panel, we must access Settings > Google and enter our username and password.



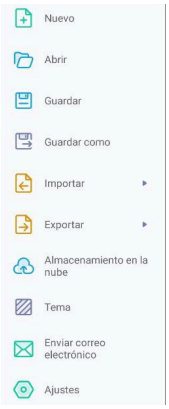
3. Whiteboard

In the side bar, we press on the Whiteboard application.



1	Menu	**12**	2D and 3D Geometric Shapes
2	Exit Whiteboard	**13**	Split Whiteboard up to 4 parts
3	Export QR	**14**	Table Tool
4	List	**15**	Mind Map Tool
5	Drive Account	**16**	Notes Tool
6	Select	**17**	Infinite Whiteboard Zoom
7	Pen	**18**	More Tools
8	Eraser	**19**	Add Page
9	Youtube Image and Video Bank	**20**	Go to Previous Page
10	Erase All	**21**	Created Pages History
11	Geometric Tools	**22**	Go to Next Page

3.1 Menu



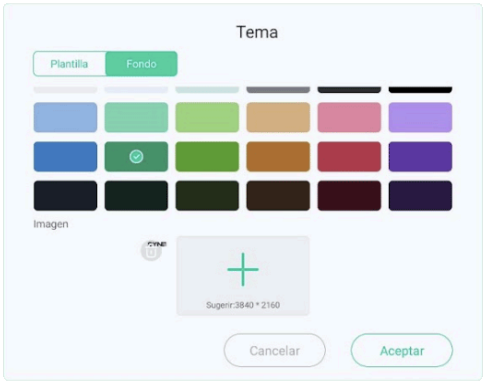
Within the Menu section, we can:

- Create a new page
- Open a document stored on our panel
- Save content on the panel
- Import and export documents in .IMG, .PDF, .SVG, .IWB
- Modify the whiteboard background
- Store content in our Google Drive or OneDrive account
- Send content by email
- Access general whiteboard settings

3.1.1 Change Whiteboard Background

From "Theme", we can modify the whiteboard background by selecting a new template (lines, musical notes, sports motifs,...) and changing the background color to a predefined one or adding a custom one.

Change template

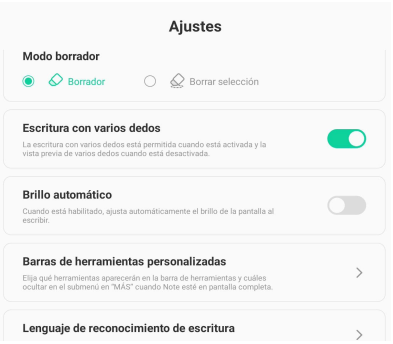


Change background color

3.1.2 Settings

From "Settings", we can configure:

- Eraser Mode: allows selecting to erase an element or use the standard eraser option.
- Multi-finger Writing: activate or deactivate the multi-touch option
- Auto Brightness: activate or deactivate auto brightness
- Custom Toolbars: allows customizing the worktable toolbar
- Handwriting Recognition Language: modify the keyboard language.



3.2 Save with QR Code

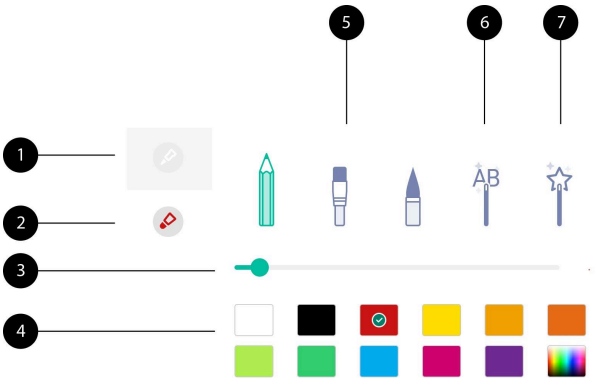
When tapping the QR icon, a QR code will appear. Scanning it from any device, regardless of whether they are connected to the same network or not, will allow downloading the whiteboard content.

3.3 Draw

To start writing on the whiteboard, we can:

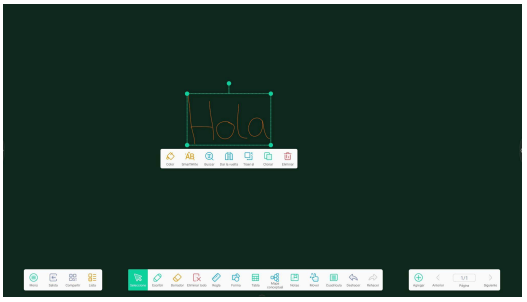
- Use the fine tip of the digital pen
- Use the thick tip of the digital pen
- Use fingers to write
- Erase with the palm of the hand

3.3.1 Writing Tools



1	Fine Pen Selection	5	Strokes
2	Thick Pen Selection	6	Character Recognition (OCR)
3	Thickness Dimension	7	Object Recognition
4	Color Palette		

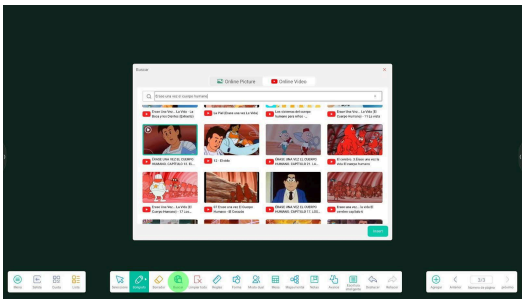
3.4 Selection



With the selection icon activated, we can modify the object color, activate handwriting recognition, duplicate, or delete.

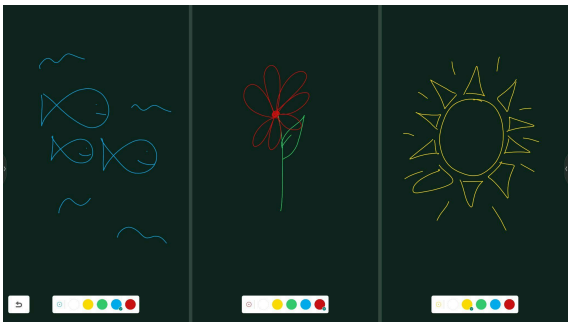
To activate selection, press on the icon. Subsequently, select the element to edit.

3.5 Image and video bank



From the Search icon, we can access an unlimited, royalty-free image bank and Youtube videos to insert directly into the whiteboard, without ads.

3.6 Split Whiteboard

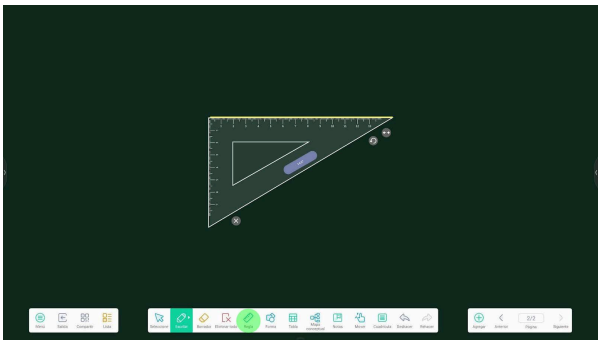


From the split whiteboard icon, we can split the whiteboard into 2, 3, or 4 equal parts. Each divided part has its own color palette. The line between each area physically delimits access to the adjacent area.

To return to the standard whiteboard state, select the arrow on the left.

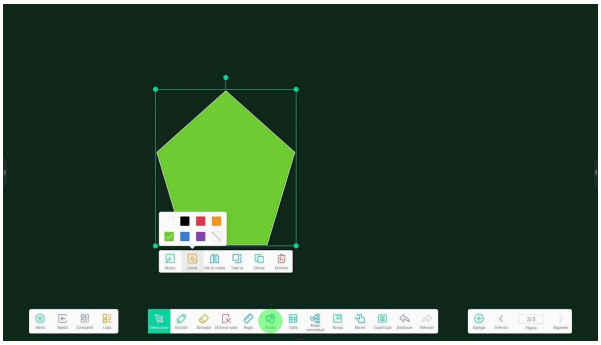
3.7 Other Tools

3.7.1 Ruler



When tapping the "Ruler" icon, a ruler, set square, and triangle are deployed. Once the tool is selected, we can draw lines or shapes.

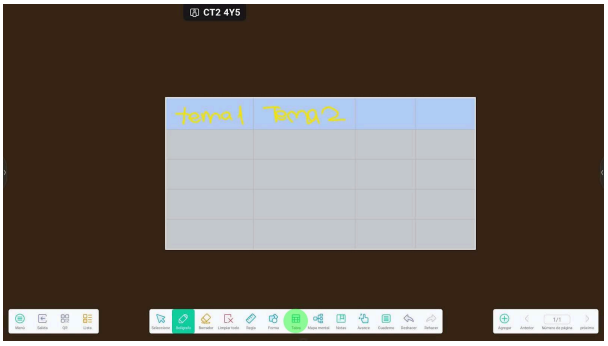
3.7.2 Shape



When tapping the "Shapes" icon, we can select from different geometric shapes.

With selection, you can modify the stroke or fill color, duplicate, or delete.

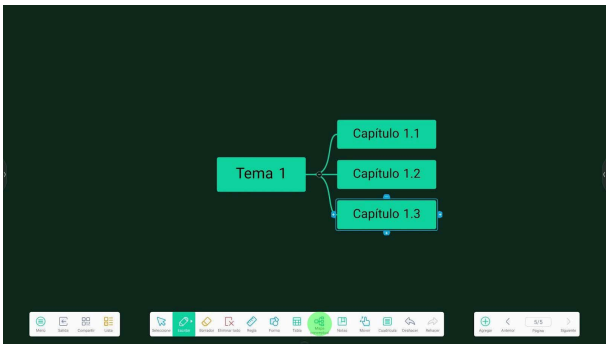
3.7.3 Table



When selecting the "Table" icon, the option to choose the number of rows and columns will be displayed. Press Insert and we can start writing in each cell.

The cell automatically adapts to the text dimensions.

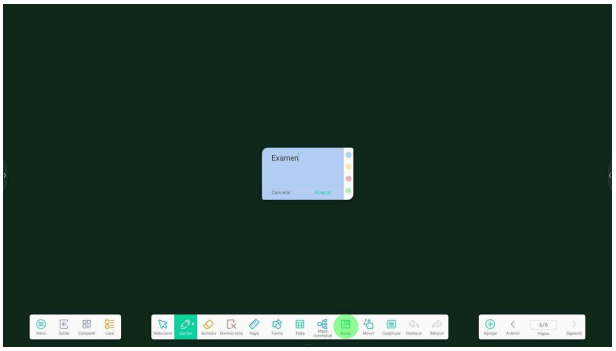
3.7.4 Mind Map



In the "Mind Map" icon, we can insert a mental scheme and add infinite branches.

Furthermore, when writing in the cell, it automatically recognizes the text.

3.7.5 Annotations



When tapping the "Annotations" icon, a label will be generated, where we can write, change its color, and move it.

3.8 Page Management

On the right side, we can add a new page, advance or go back between the different worktables of the whiteboard.

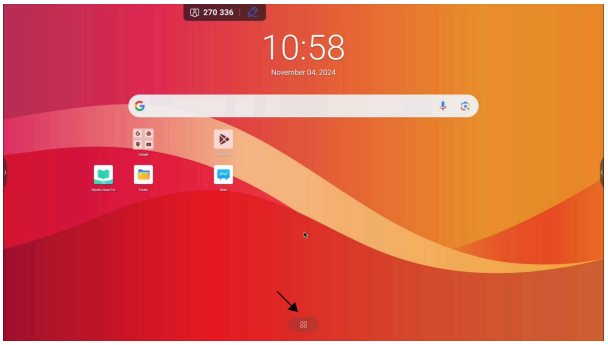
Additionally, when tapping on the page number, a menu with all the worktables created will be displayed, where we can have an overview or delete them.

4. Applications and Tools

4.1 Installed Applications

To access all installed applications, press on the icon located in the app bar.

We can also access all installed applications via the icon located at the bottom of the screen.



The main applications installed by default for optimal use of the interactive panel are as follows:

Google Applications

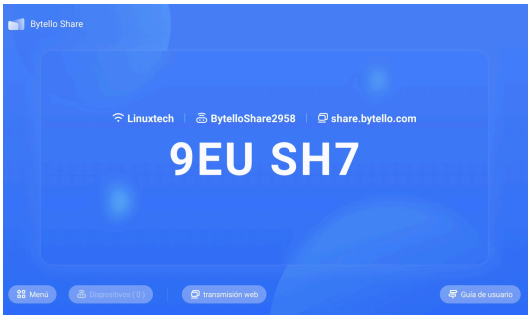
The Piscis interactive panel has the Google EDLA certificate, so all applications in the Google environment are installed by default. From the Play Store to Drive and Meet.

Synetech Share

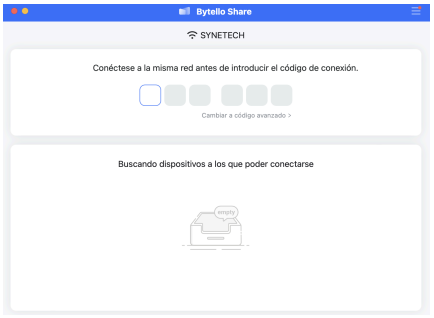
This application allows us to share the screen from one or multiple devices to the interactive screen and vice versa.

To share screen via Synetech Share, we have to download the application on our device at the following link: https://ssp.bytello.com/download or we can access via the browser: https://share.bytello.com/

Once the application is downloaded and connected to the same network, the access point created by the panel [Hotspot], or web transmission is activated, we enter the code that appears on the screen.

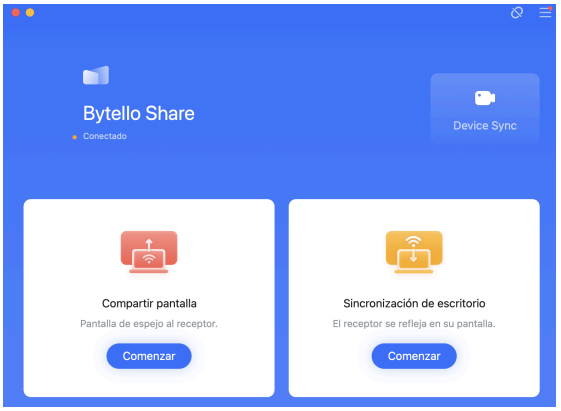


View from the panel



View from the computer

Once the code is entered, we can share the screen or allow the content displayed on the panel to be reflected on our device (Desktop Synchronization).



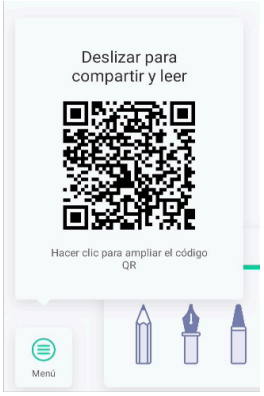
**Expanded information in sections 5.3 and 5.4.*

Palette

This tool allows us to draw, create, and edit. It allows selecting different writing tools (pen, highlighter, brush,...) and combining several colors to create a new one.

When we press the palette icon, a worktable with multiple tools for writing and drawing opens for us.

As in the whiteboard, we can download the created content by scanning a QR code. To do this, we access Menu/Share.

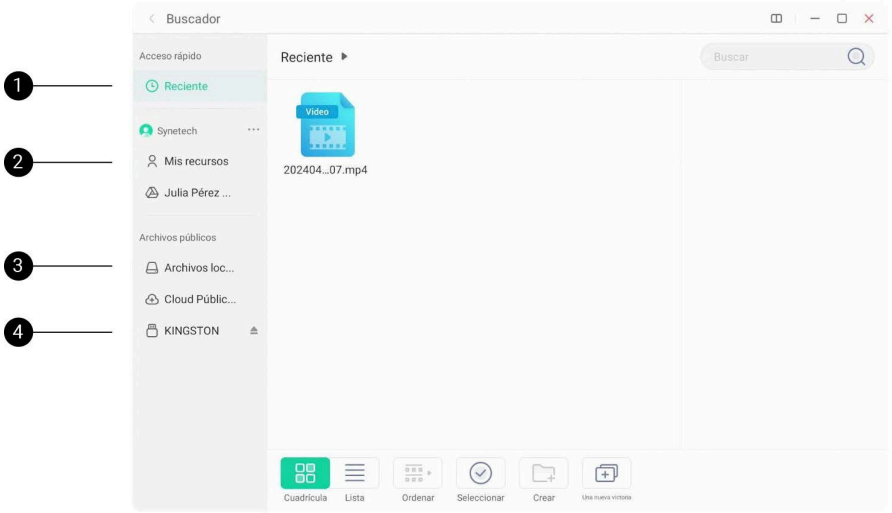


Also, we can import an image to work on it by accessing Menu/Import.

We can customize colors by mixing two or more colors. To do this, we select a color, add it to the palette, and move in a circle on the palette. We repeat the process to add another color.

Files

From the files icon, we can access our local files and cloud files (if the Drive or OneDrive user is linked). Furthermore, if we connect a USB, we can access the content stored on the external device.

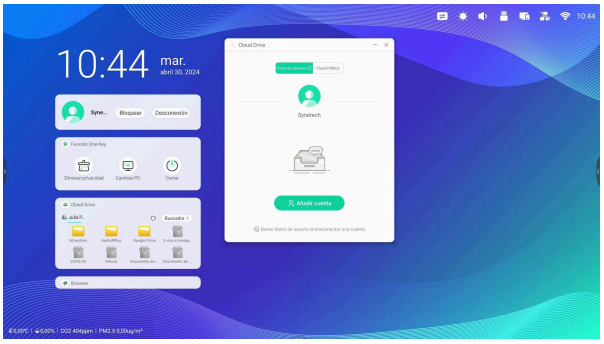


1	Recent Files
2	Cloud Stored Files
3	Local Files
4	Files stored on an external drive

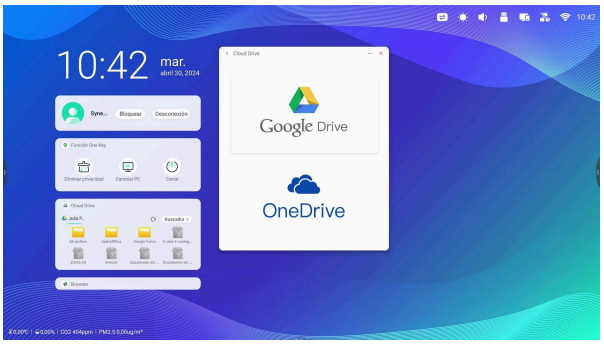
Cloud Drive

To access our Google Drive or OneDrive account, we press the following icon.

How to link my Google Drive or OneDrive account to the interactive panel?



To link our Google Drive or OneDrive account for the first time, press on the icon. The following window will open, press Add Account.



Subsequently, select the account we would like to add: Google Drive or OneDrive and enter our username and password.

Now every time we log in to our panel, we will have direct access to our cloud documents.

Synetech Class

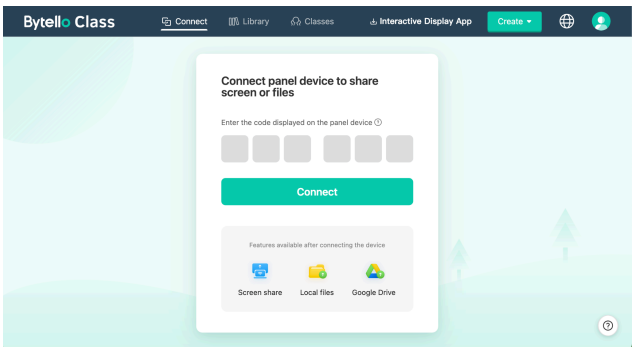
By pressing the following icon, we can access the Synetech platform which will allow us to create educational content and interact with it from the interactive panel.

Create Educational Content

To create educational content, before classes, we must access the following web platform Synetech Class. We can access it from any device.

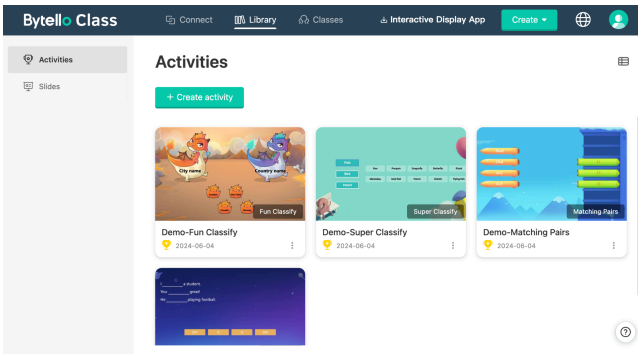
If it's the first time accessing Synetech Class, we must create a user account.

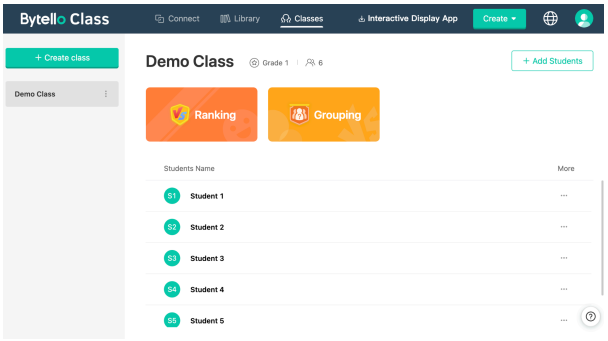
Once inside the platform, the following window will appear:



From this screen, we can share the screen and send files to all devices connected to the interactive panel. To do this, we must enter the code that appears on the interactive panel.

From this screen, we can create interactive activities and presentations, which we can later share on the panel.

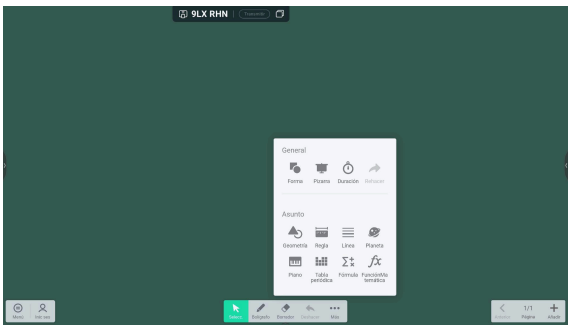




From this screen, we can generate a list with the students in the class and create random groups.

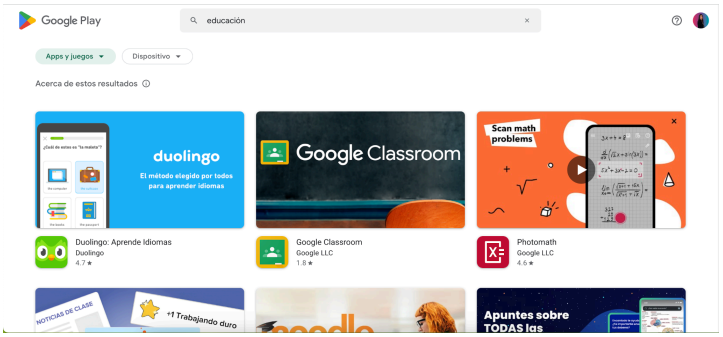
In Class

From the interactive panel, by pressing this icon, we can access a whiteboard with multiple interactive tools and from where we can insert the activities we created previously from the web platform.



4.2 Install Applications

We can install an application by accessing the Google Play Store, entering the application we wish to download in its search bar, and selecting Download.



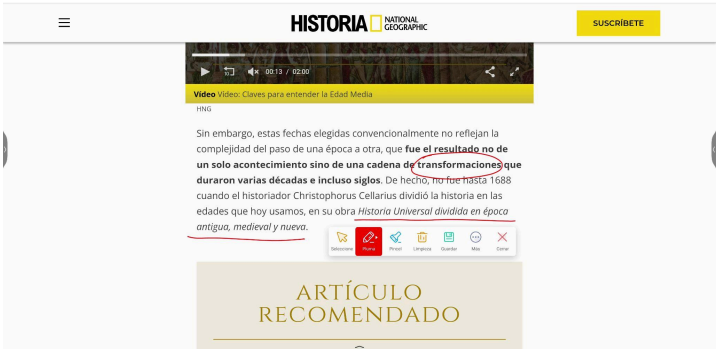
4.3 Tools

In addition to the applications mentioned above, the interactive panel integrates a series of tools to facilitate class dynamics. To access them, we press More.

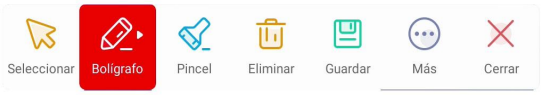
The main tools are as follows:

Annotate/Mark

This tool allows us to draw on the interactive panel screen or on a page open in the browser.



When selecting Annotate, a bar with a series of tools will appear, which can be moved around the panel screen.



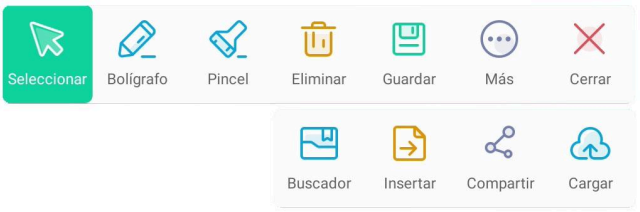
Select: These tools allow us to select.

Pen and Brush: These tools allow us to draw and write on the screen. Pressing on them allows us to select the color.

Erase: All marks made on the screen will be erased.

Save: A screenshot is automatically taken and saved in local files.

More: Allows us to save the document in a selected folder, share it via QR, upload it to the cloud, or insert it into the whiteboard as an image to continue working on the highlighted content.

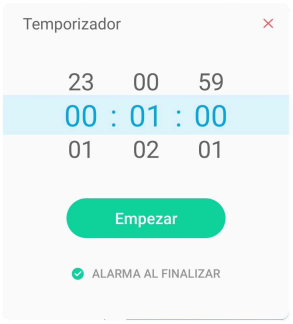


Close: Exit the tool.

Timer

When pressing the following icon, we activate a timer.

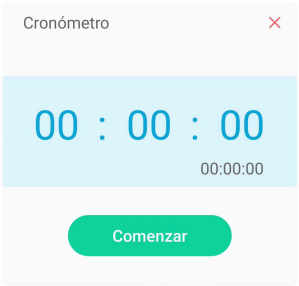
When pressing Start, the countdown begins. We can activate an audible alert by pressing Sound when time is up.



Stopwatch

When pressing the following icon, we activate a stopwatch.

When pressing Start, it starts counting the time.



Air Class

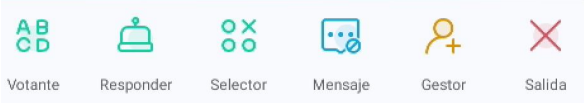
When pressing the following icon, we activate a voting and participation system to increase interaction in the classroom.

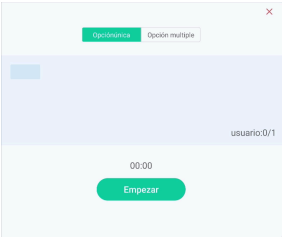
<u>Home Screen</u>

To start student participation, press the Air Class icon and a code will appear. Students have two options to join: via a QR code or by entering the following link: https://class.ifpshare.com

<u>Participation Bar</u>

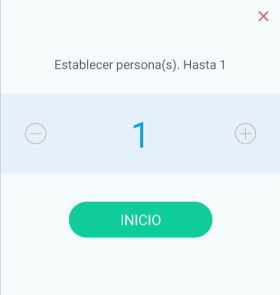
Once all students are registered, we press Enter Class and the following bar with different participation options will appear.





Voter: Start a single or multiple choice voting system.

Responder: Notification of the first user who writes an answer.



Selector: Automatic selection of a user to answer.

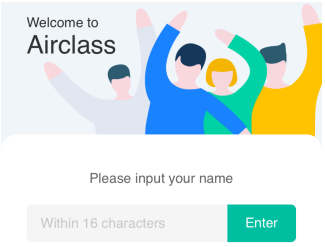
Messaging: Activate/deactivate messages.

Manager: Return to the home page.

Exit: Log out of the participation session.

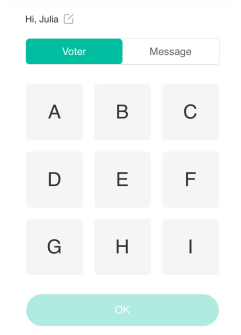
View from Connected Device

On the other hand, from the device connected to Air Class, the following windows will be displayed:



If it is the first time we access the tool, we must enter a username. Press Enter and access the voting system.

Voting system



Sending messages that will appear simultaneously on the panel

Spotlight

When pressing the following icon, we activate a spotlight, which we can modify in size and intensity. This tool will allow us to focus attention on the part we want to highlight.

Recorder

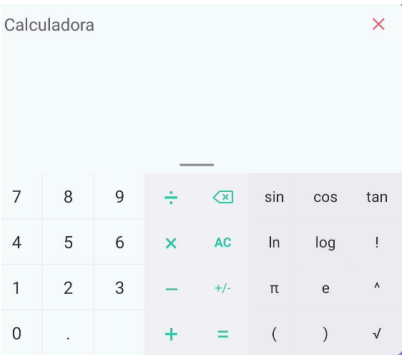
When pressing the following icon, we activate screen recording. The recorded video will be saved in local files.

Zoom

When pressing the following icon, we can manage the screen zoom, increasing or decreasing the scale.

Calculator

When pressing the following icon, a calculator appears.



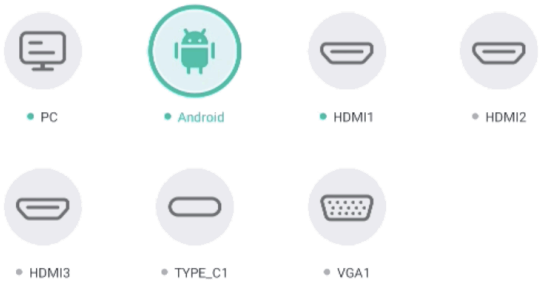
5. External Sources

5.1 Wired Connection to External Source

To connect an external device (PC, keyboard) to the interactive panel, connect the peripheral to the corresponding port, press the Inputs icon, and select the corresponding input.

5.1.1 Input Types

When pressing the Input icon, located on the side bars of the panel, a window with all the available inputs of the panel will open.



The green dot next to the input name highlights those inputs that are connected. The green icon means the input you are currently active on.

Once the peripheral is connected to the panel, we access Input and select the input we want to activate.

5.2 Touch System Control

Furthermore, the interactive panel integrates a USB Touch, which enables the panel's interactivity with the device connected via HDMI. This allows us to control the touch system of the connected device from the panel itself.

To do this, connect an HDMI cable from the device (PC) to the panel to project the content, and a USB cable with Type-A input and Type-B (Touch) output connected to the panel to enable interactivity.

5.3 Share Screen from Student Device to Interactive Panel

We can share the screen in two different ways:

5.3.1 Screen Transmission via Standard Protocols

We can transmit the content from our PCs to the interactive panel via Airplay, Miracast, and Chromecast. We must be connected to the same network as the panel.

Once the share/duplicate screen option is selected from the PC, a notification will appear on the panel, which we must accept to start screen duplication.

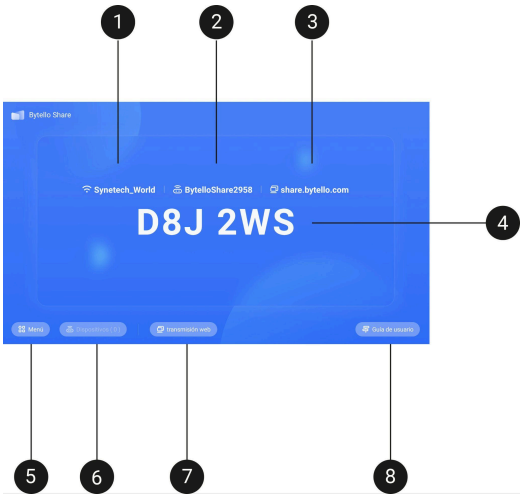
Bytello Share(ScreenShare Pro)

In the case of Android devices, we must download the Synetech Share (BytelloShare) application.

5.3.2 Screen Transmission via the Application

The interactive panels have the Synetech Share application integrated by default. To access it from the interactive panel, we must press the following icon, located in the toolbar.

To start sharing the screen, press on the application installed on the interactive panel. The following window will appear.



1	Indicates the Wi-Fi network the panel is connected to
2	Name of the device we can connect to
3	URL that allows web access to the Synetech Share platform
4	Code that must be entered to share the screen
5	Connection permission settings
6	Management of devices connected to the panel

7	Allow users to share screen via web transmission
8	Steps to follow to share screen

Steps to follow:

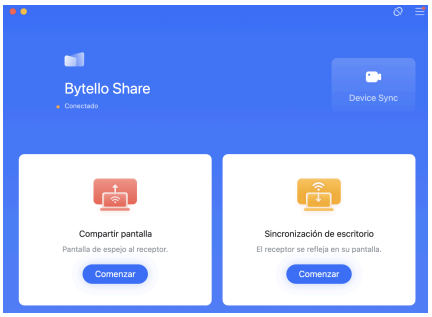
1. The student, from the device with which they want to share the screen, should open the Synetech Share application (can download the application at the following link: https://ssp.bytello.com/download) or work from the web platform .

2. Once we have accessed the application or web platform, the following window will appear, from where we must enter the 6-digit code that appears on the panel screen.

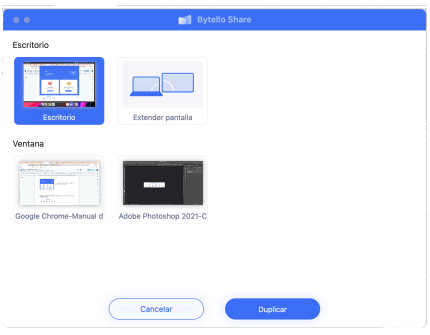
1	Indicates the Wi-Fi network the panel is connected to
2	Space to enter the activation code
3	Name of the device we can connect to

3. We must be connected to the same Wi-Fi network as the interactive panel, connected to the access point created by the interactive panel [Hotspot], or have the web transmission option activated.

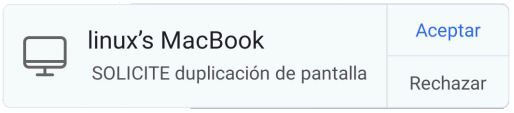
4. Once the code is entered, the following window will appear on our device. To share the screen, we must select Share Screen.



5. Subsequently, we select the screen sharing mode, i.e., whether we want to share the desktop or a window.

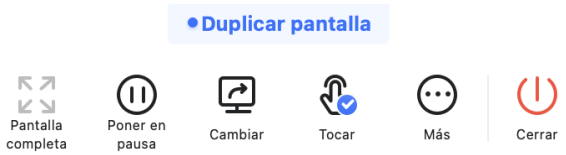


6. On the panel, a request will appear, which we must accept to allow content sharing.



Connected Device Control Bar

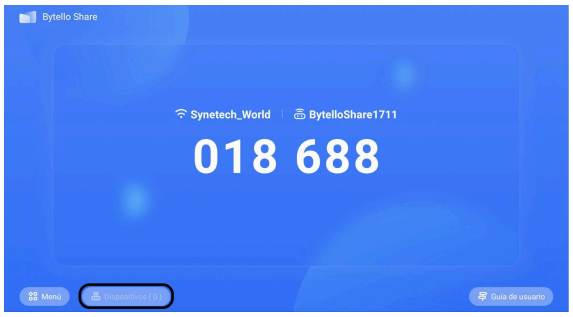
The student will see a control bar on their device, from where they can manage the screen sharing mode.



Full Screen	Full Screen
Pause	Pause sharing
Switch	Switch Viewing Window
Touch	Activate/Deactivate Touch System
More	Image Settings
Close	Exit Sharing

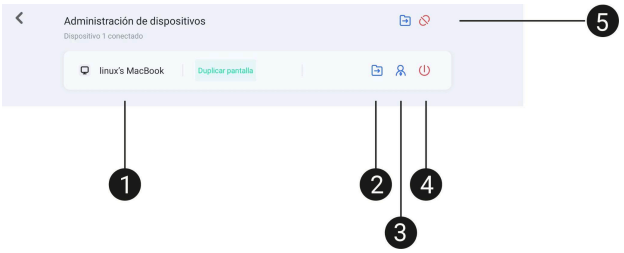
Control of Connected Devices from the Interactive Panel

We can manage the devices connected to the interactive panel.



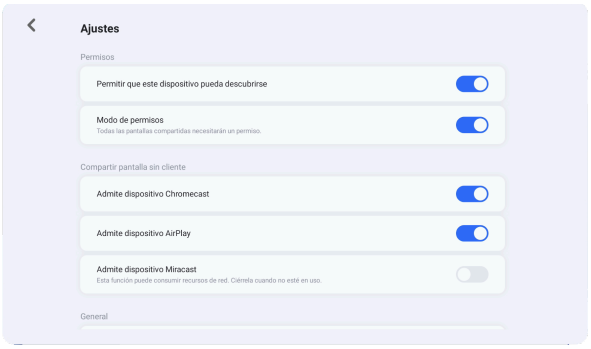
To do this, on the panel, we access the Synetech Share application and press on Devices.

1. List of devices.
2. Send a document to the connected device.
3. Manage permissions.
4. Disconnect the device.
5. Disconnect all connected devices.



Settings

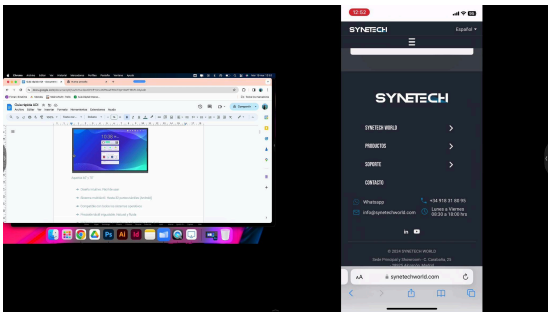
To access the Synetech Share settings, access the application on the panel and select Menu.



In Menu, we can activate/deactivate screen sharing permissions via Airplay, Miracast, and Chromecast.

Simultaneous Sharing

Multiple students can share content from their PC simultaneously. The panel screen will split automatically. Up to 9 devices can share simultaneously.



5.4 Share Screen from Interactive Panel to Student Devices

The interactive panels have the Synetech Share application integrated by default. To access it from the interactive panel, we must press the following icon, located in the toolbar.

To start sharing the screen from the interactive panel to the other devices, press on the application installed on the interactive panel. The following window will appear.

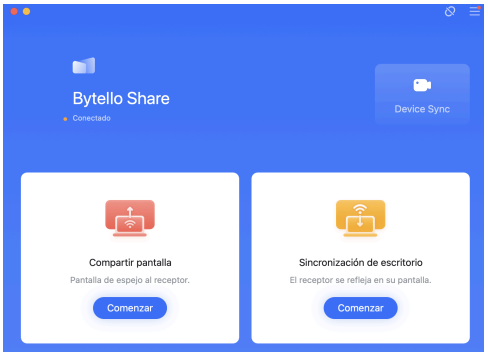
Steps to follow:

1. The student, from the device with which they want to sync the screen, should open the Synetech Share application (can download the application at the following link: https://ssp.bytello.com/download) or work from the web platform .

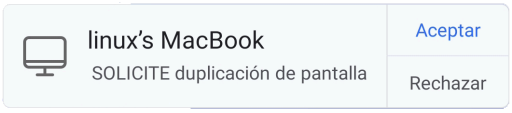
2. Once we have accessed the application or web platform, the following window will appear, from where we must enter the 6-digit code that appears on the interactive panel screen.

3. We must be connected to the same Wi-Fi network as the interactive panel, connected to the access point created by the interactive panel [Hotspot], or have the web transmission option activated.

4. Once the code is entered, the following window will appear on our device. To share the screen, we must select Desktop Synchronization.

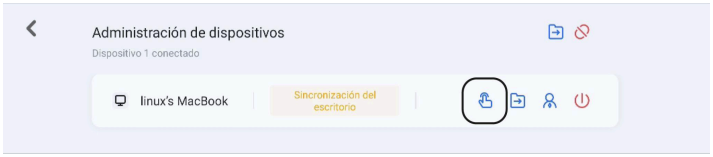


5. On the panel, a request will appear, which we must accept to allow content sharing.

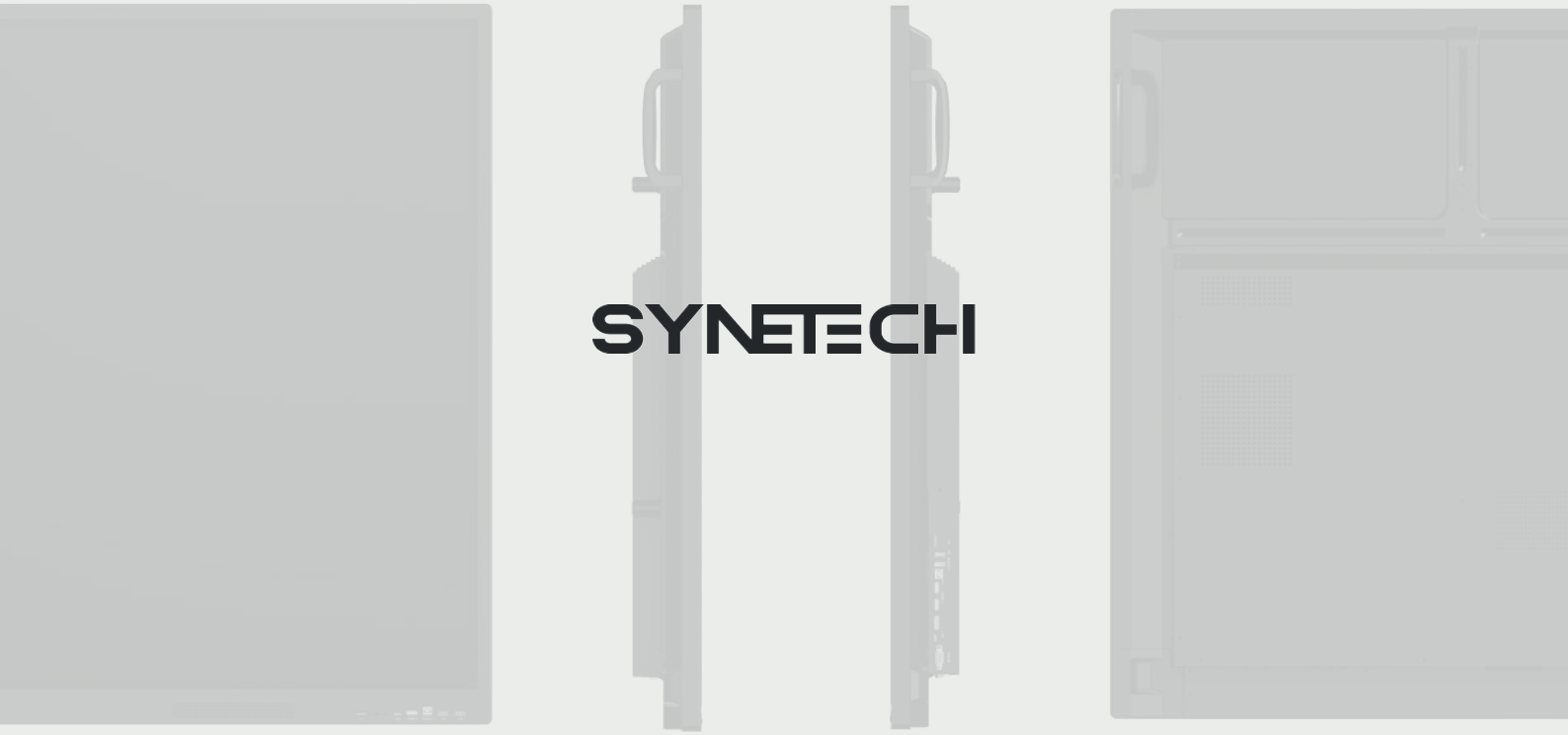


Touch System Control

We can authorize control of the interactive panel's touch system from one or several devices.



Within the Synetech Share application on the panel, we press Devices and activate Touch.



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