USER MANUAL

LG Digital Signage

(MONITOR SIGNAGE)

Please read the user manual before using the product to ensure safe and convenient use.

Android 13.0

ENGLISH

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Getting Started

Useful Information

This user manual explains how to use the LG SIGNAGE Interactive Digital Board and its accessories. The product specifications or content contained in this user manual may be changed without notice to improve product quality.

Symbols and Notation Rules

This user manual uses the following symbols and notation rules to aid user understanding.

Symbols for Safety Precautions

The two symbols below are used to describe dangerous situations and operations that users must follow for safety.

Warning

Ignoring this warning can lead to serious injuries or possibly fatal accidents.

Caution

Ignoring this caution can lead to minor injuries or product damage.

Symbols for reference

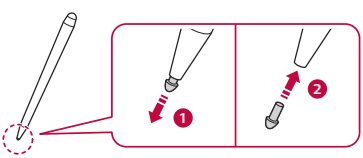
These are used to indicate useful information to which users should refer.

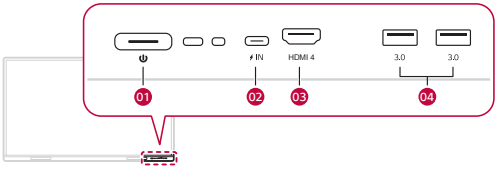
Note

It provides useful information or tips when using the product.

Image

Images are used to help users understand the content. When describing the components of the screen, each component is marked with a number, and the description is added below the corresponding image.





UI (User Interface)

The UI visible on the screen is displayed in the following way.

- UI text is displayed in bold inside the square brackets ([ ]). (e.g. To switch modes, press **[Window Mode]**.)
- Content entered by the user or buttons are displayed in bold. (e.g. Press **Next**.)
- Keyboard keys are displayed in bold inside single angle brackets (< >). (e.g. Press the <**Enter**> button.)
- When describing remote control buttons or icon-only menus, only the icon is displayed.

Cross-reference

When it is good to refer to information in other parts of the user manual, a shortcut is provided to check the content directly. Cross-references are marked with underlines and colours. (e.g. Some features are only available in the **Note app**.)

Copyright Notice Information

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Open Source Software Notice Information

To obtain the source code that is contained in this product, under GPL, LGPL, MPL, and other open source licenses that have the obligation to disclose source code, and to access all referred license terms, copyright notices and other relevant documents, please visit *https://opensource.lge.com*.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to *opensource@lge.com*.

This offer is valid to anyone in receipt of this information for a period of three years after our last shipment of this product.

Safety Precautions

The safety precautions are intended to guide users to use the product safely and correctly, thereby proactively preventing accidental damage or personal injury. Therefore, users must read and understand the contents before using the product.

Power Supply and AC Adapter Safety Guidelines

Warning

- For power cords and AC adapters, use the proper product supplied by the manufacturer or an approved standard product. If you wish to use another power cord, ensure it meets the national standards. If the power cord is defective, contact the manufacturer or the nearest authorised service centre for replacement.
- Use the product according to the power (or voltage) specified in the product specifications. Damage to the product may result in fire or electric shock. If you are unsure of the type of power supply provided at the location you wish to install, please contact a professional equipment company.
- Always connect the power cord to a grounded socket. It may result in electrical shock, injury, or product damage.
- Ensure that the power cord and AC adaptor are firmly plugged in so that the connection is not loose. Poor connection may result in fire or electric shock.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous. Otherwise, this may result in electric shock.
- Take care not to place any heavy objects (electronics, clothing, etc.) on or step on the power cord or AC adaptor. In addition, do not bend or pull the power cord and AC adaptor with excessive force. Damaged wires may result in fire or electric shock.
- Avoid bringing sharp objects into contact with the power cord and AC adapter. Connecting a damaged cord or AC adapter to a socket may result in electric shock.
- Do not insert conductors (metal chopsticks, etc.) into the other socket while the power cord is connected to one side of the socket. In addition, do not touch the power cord immediately after it is unplugged from the socket. Otherwise, this may result in electric shock.
- Do not connect multiple electrical appliances or heating devices to a multi socket. Use a dedicated multi socket with a ground terminal. Overheating may result in a fire.
- If water or foreign substances get into the product, disconnect the power cord immediately and contact the service centre. Damage to the product may result in fire or electric shock.
- Keep the power cord and AC adaptor away from heating devices. Melting of the wire insulation may result in fire or electric shock.

Warning

- Do not disassemble, repair or modify the power cord or AC adapter by yourself. There is a risk of fire or electric shock.
- The power cord serves as the main power disconnection device. Install the product near a power socket for easy operation.
- If the product is connected to the AC wall power source, turning off the product does not completely cut off the AC power. The power cord must be completely disconnected for the power consumption to be '0'.
- Use a product with a cut-off device for the device coupler.

Caution

- Keep the socket, power cord pins, and AC adapter clean. Overheating caused by dust layers may result in fire or electric shock.
- Take care to avoid water coming into contact with the socket, power cord pins, and AC adapter. Do not touch the power cord or AC adapter if your hands are wet. Otherwise, this may result in electric shock.
- Do not use the power cord as a switch. Turning on or off the product by connecting or disconnecting the power cord may result in electric shock or malfunction.
- Do not remove the power cord when the product is in use. Electric shock may cause product malfunction.

Precautions When Moving the Product

Warning

- Make sure to contact the service centre before moving the product. Moving the product incorrectly may result in electric shock or malfunction.
- Turn off the power and ensure all connected cables are disconnected before moving the product. This may cause an electric shock or product malfunction.
- When moving the product, take care not to apply any force or to press the front panel. This may cause an electric shock or product malfunction.
- When moving the product, comply with the standard requirements for personnel according to weight. Moving the product forcibly may result in injury or product damage. One person is required per 25 kg. If it exceeds 100 kg, use moving equipment.
- Using the product after it has been dropped may result in electric shock or fire. Contact the service centre.
- (For models with a stand) Do not pick up the product upside down while holding the stand alone. Doing so may result in damage to the product, such as stand distortion or damage to the panel.

Installation Precautions

Warning

- Make sure to contact the service centre before installing the product. Incorrect installation may result in electric shock or malfunction.
- Do not drop or apply excessive force to the product. Doing so may result in injury or damage to the product.
- Take care to prevent children from touching the product. Ensure they do not throw toys or other objects at the product panel.
- Be careful not to let children climb or hang on the product. If the product falls or tips over, injury may occur.
- Do not place heavy objects, sit, or hang on the product. If the product falls or tips over, injury may occur.
- If the product is overheated, do not touch the surface. Doing so may result in injury.
- Secure the product firmly to the floor or wall to withstand external shocks such as strong wind or earthquakes. Always refer to the user manual for installation.
- Do not install near a heating device such as an electric stove or lighting equipment. It may cause fire, electric shock, or malfunction.
- Do not install the product by yourself. Always enlist the help of a service engineer authorised by the service centre when installing the product.
- When installing the product on a wall, avoid locations where oil or fumes may come into contact with the product. This may damage the product and cause it to fall.
- Do not leave power cords, wires, cables, and so on in places where people walk through. Tripping over these may result in electric shock, fire, or damage to the product.
- Do not use short cables to connect the product with external devices. Doing so may result in injury or damage to the product.
- If the product is dropped or the case is damaged, turn off the power, disconnect the power cord, and contact the service centre. Not taking appropriate measures may result in fire or electric shock.
- Install in a dry place free of dust and moisture. Installing in a location with high temperatures or humidity may result in electric shock, fire, or damage to the product.
- Install safely in a place where it can withstand the weight of the product. If the support is weak, the product may fall and become damaged.
- Do not install the product in an unstable location, such as shaky shelves, slanted surfaces, locations that vibrate and locations where the product cannot be securely supported. The product may become damaged if it falls or is tipped over.
- Do not place a cloth or other objects between the product and the furniture supporting the product. The product may become damaged if it falls or is tipped over.

Caution

- Do not install the product in a place with electromagnetic interference.
- Installing the product in a distinct place other than one with the normal conditions of use may lead to serious problems with image quality, lifespan, and appearance due to the influence of the surrounding environment. Please make sure to check with our service personnel before installation. Avoid installing the product in locations where quality cannot be guaranteed, such as where there is excessive fine dust or oil fumes, where chemical substances are used, where the product is exposed to direct sunlight, where the temperature is excessively high or low, or where there is high humidity.
- Maintain a certain distance (more than 100 mm) from the wall to ensure good ventilation. Installing too close to the wall may increase the internal temperature and result in fire or damage to the product.
- Do not install in a poorly ventilated place such as bookshelves or a wall cabinet, in a location exposed to external environments such as rain or wind, or on carpets or cushions. The internal temperature may rise, potentially causing a fire.
- When the power cord is connected, make sure that the vents are not blocked by tablecloths, curtains, or other objects (such as plastic). The internal temperature may rise, potentially causing deformation of the product or a fire.
- Install the product on a flat and safe surface. If the product falls, it may cause personal injury or damage to the product.
- When installing the product on a shelf or cabinet, ensure that the bottom end of the product is not protruding. If the weight of the product is not balanced, it may fall and result in injury or damage to the product. Ensure that any cabinets or shelves used fit your product.
- Take a comfortable and natural posture when handling the product to avoid straining your muscles.

Precautions When Cleaning Product

Warning

- Always keep the product and inside of the product clean. If dust accumulates inside the product for a long period without being cleaned, fire may break out or product may be damaged.
- Contact the service centre for internal cleaning of the product. Incorrect cleaning may result in electric shock, fire, or damage to the product.
- When cleaning the product, disconnect the power cord and gently wipe with a soft cloth to prevent scratches. Scratches may result in electric shock or screen damage.
- For the front frame, spray water 2 to 4 times on a soft cloth and gently wipe in one direction. If the cloth is excessively wet, it may cause stains.

Caution

- When cleaning the product or panel, disconnect the power cord and wipe it gently with a soft cloth. Do not spray water directly on the product or wipe it with a wet mop. In particular, never use any cleaners, air fresheners, mosquito repellents, lubricants, automotive and industrial polishes, abrasives, thinners, benzene, alcohol, etc. as they may damage the product or panel. This may cause a fire, electric shock, or product damage (deformation, corrosion or breakage).

Precautions When Using Product

Warning

- Do not use the product in any environment that exceeds the temperature or humidity limits. This may cause an electric shock or product malfunction.
- If you are using the product for a long time, take occasional breaks to protect your eyesight. Prolonged use without breaks may weaken your eyesight.
- Use the product at an appropriate distance. Prolonged use in close proximity may affect your eyesight.
- Set the resolution and frequency according to the product specifications. It may affect your eyesight.
- Listening at a high volume or using it for a long time may affect your hearing.
- If water or any foreign substance goes inside the product, turn off the power, disconnect the power cord from the socket, and contact the service centre. Continued use without taking appropriate action may result in fire or electric shock.
- In the event that no image appears on the screen or no sound is heard, stop using the product. Immediately turn off the power, unplug the power cord and contact the service centre. Continued use without taking appropriate action may result in fire or electric shock.
- Do not apply shock to the product or the screen by dropping an object onto the product. Doing so may result in injury or damage to the product/screen.
- If you smell something unusual, hear a strange noise, or see smoke coming out of the device, unplug the power cord and contact the service centre. Continued use without taking appropriate action may result in fire or electric shock.
- Never disassemble, repair, or modify the product at the user's discretion. There is a risk of fire or electric shock. If necessary, contact the service centre.
- Do not place an object filled with liquid, such as a vase or a cup, on top of the product. If liquid enters the product, it may result in electric shock, fire, malfunction, and deformation.
- Do not press hard on the surface of the product with your hands or scratch it with a sharp object such as nails, pencils, or pens. And do not impact the front or sides of the screen with a hard object, such as a metal object, and do not scratch the screen. Doing so may result in malfunction.

Warning

- Do not touch the product after it has been exposed to sunlight or strong light since it will be hot.
- Do not use devices that use high-voltage electricity, such as electric mosquito swatters, near the product. Electric shock may cause product malfunction.
- In the event of a gas leak, never touch the socket and open windows for ventilation. There is a risk of fire or electric shock.
- If the product or case is dropped and damaged, turn off the power, disconnect the power cord, and contact the service centre. Continued use without taking appropriate action may result in fire or electric shock.
- Do not leave small accessories near children. Children may swallow them. If swallowed by a child, consult a doctor immediately.
- Ensure that children do not play near the product or throw toys or objects at the product panel. Doing so may result in injury or damage to the product/screen.
- Do not touch the overheated surface of the product. Doing so may result in injury.
- Do not store or use flammable substances near the product. It may result in explosion or fire.

Caution

- To completely cut off power to the product, disconnect all connected power cords.
- Watching still images for a long time may damage the screen and cause an afterimage. Third-party products may also have this phenomenon, and damages resulting from this are not covered by the warranty.

Cautions When Disposing of the Product

Caution

- This product cannot be disposed of with regular household waste. Dispose of it by strictly following the regulations of your local authority.

Precautions When Using Remote Control

Warning

- Avoid places with high humidity. There is a risk of electric shock or damage to the product.
- Do not expose batteries to direct sunlight, fireplaces, or excessive heat from heating devices. Doing so may result in fire or injury.
- When replacing batteries used in remote controls, be careful not to let children eat them. Keep the batteries out of reach of children. If swallowed by a child, consult a doctor immediately.
- Do not dispose of batteries by burning them. Discard used batteries in designated battery collection bins, or at a nearby recycling centre or authorised dealer that handles batteries.
- Used batteries, including rechargeable batteries, should be properly disposed of separate from general waste. Used batteries and rechargeable batteries should be disposed of at a nearby recycling centre or at a dealer that handles batteries and rechargeable batteries.

Caution

- Do not short-circuit or disassemble the battery. There is a risk of fire or electric shock.
- Remote control recognition may be difficult under sunlight or strong lighting. In this case, please change the location of the product.
- Do not mix new and old batteries. Doing so may cause the battery to burst or leak, resulting in fire or electric shock.
- Do not use batteries other than those specified. Do not insert non-rechargeable batteries into the charger. It may cause the battery to burst or leak, resulting in a fire or electric shock.

Understanding Your Product

Understanding the Unique Features

Smart Writing Feature

- This product features a dedicated writing software that allows you to write on any source.
- We have minimised the air gap for comfortable writing and the screen is closely attached to the hardened glass with a gap of less than 1 mm, providing precise touch and smooth handwriting.

User Experience Similar to Mobile Devices/PC

- This product comes with an Android operating system installed, making it easy to use if you are familiar with mobile devices.
- With the same screen touch operation as mobile devices, you can easily use it without having to learn new gestures.
- By installing a built-in PC (OPS) in the OPS slot, you can use various extension features without the hassle of connecting to an external PC.

Using Various Document Softwares

- You do not need to purchase separate document-related software like PDF and Microsoft Office. With the built-in viewer, you can check or modify the content of documents.

Easy Preparation for Class/Meeting and Data Sharing

- You can record lectures and meetings, including voices, along with writing on the board.
- Through the installation of the LG CreateBoard Share app/software, you can share up to 9 screens in real-time with various devices (mobile devices, PCs, etc.)
- Without installing a separate app/software on the same network, you can share up to 2 screens through a browser.
- Cloud drive linking is possible with a single login, allowing easy access to data stored in your cloud drive.

Exploring the Product

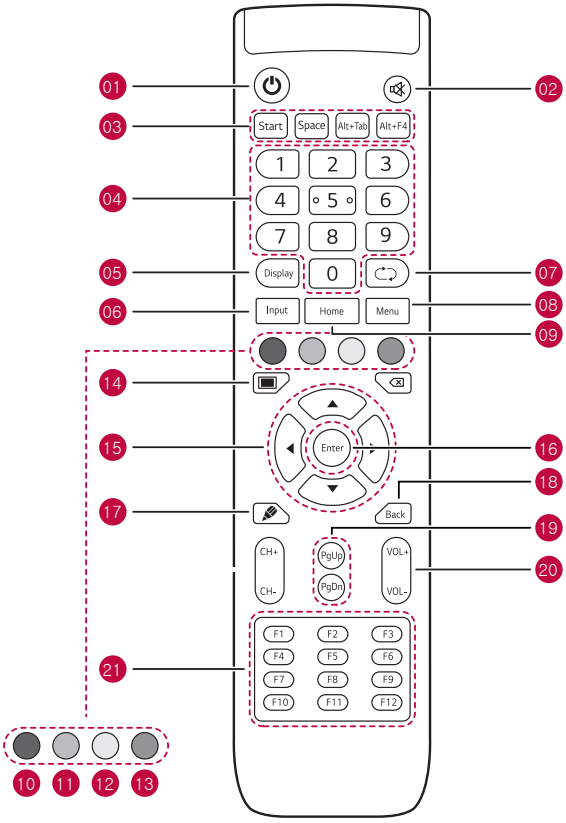
Using the remote control

You can operate various features of the Interactive Digital Board with a remote control.

Note

- Always aim your remote control towards the remote control sensor on the screen.
- Some functions of the remote control may not be supported depending on the model.
- The built-in PC (OPS) refers to a PC installed via the OPS (Open Pluggable Specification) slot. The built-in PC (OPS) is sold separately, so please contact LG Electronics if you want to purchase it. For how to use the built-in PC (OPS), please refer to the following.

▶ Using the Built-in PC (OPS)



No.	Button Name	Description
01		Turns the Interactive Digital Board on or off.
02		Mutes sound.
03	**Start**	(**For Built-in PC (OPS)**) Starts or manages frequently used apps. Displays a list of apps installed on your computer, or displays saved content.
	Space	(**For Built-in PC (OPS)**) Inserts a space between characters.
	Alt + Tab	(**For Built-in PC (OPS)**) Quickly switches between all programs currently in use on your computer.
	Alt + F4	(**For Built-in PC (OPS)**) Closes the program in use.
04	**Number Buttons**	Enters numbers.
05	**Display**	Displays current external input information on the screen.
06	**Input**	Displays an external input device.
07		Not supported on this model.
08	**MENU**	Allows you to adjust items related to screen adjustment such as audio, screen, and display.
09	**Home**	Returns to the Interactive Digital Board default screen.
10	**Red**	Locks or unlocks the power-on function. Also locks or unlocks screen touch.
11	**Green**	Locks or unlocks the power-on function.
12	**Yellow**	Locks or unlocks the screen touch function.
13	**Sky Blue**	Turns the freeze function on or off.
14		Turns the screen on or off. The power is on.
15	**Direction Button**	Moves through menu items.

No.	Button Name	Description
16	**Enter**	Saves or confirms the selected content.
17		Runs the Note app.
18		Returns to the previous step.
19	**PgUp / PgDn**	Moves the screen up and down, or when a PDF or Word document is opened, moves the page up and down.
20	**VOL + / -**	Controls the volume.
21	**Fn key**	(**For Built-in PC (OPS)**) Functions identically to the Windows function key.

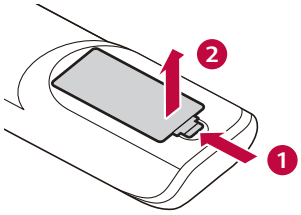
Note

- Depending on model.
- Images in the user manual are for the purposes of aiding understanding and may differ from actuality.

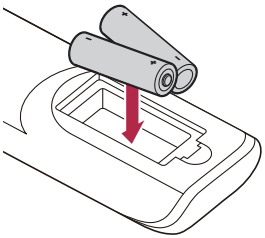
Replacing Remote Control Batteries

Please replace the batteries as follows. Uses two 1.5V AAA batteries.

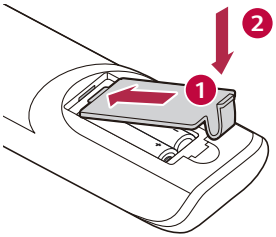
1 Open the battery cover of the remote control.



2 Match the polarities of the battery to the (+) and (-) polarities indicated on the remote control.



3 Insert the battery cover from the top, and push the bottom until it clicks into place.



Warning

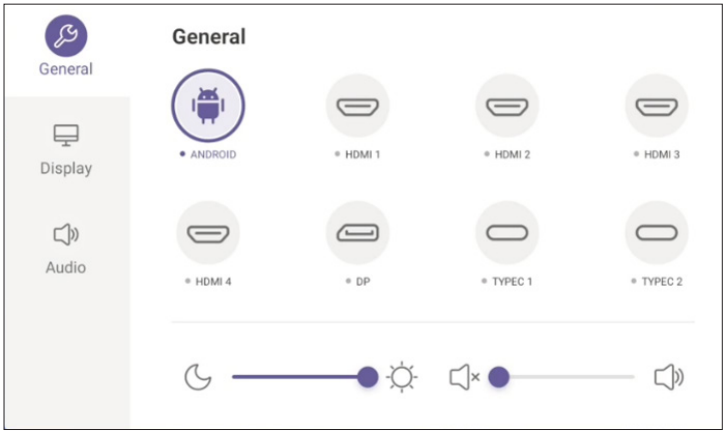
- Using old and new batteries together may result in damage to the remote control.
- Do not expose the interior and exterior of the remote control and the batteries to heat or direct sunlight. Doing so may result in damage to the remote control.

Connecting the Interactive Digital Board to Multiple Devices

During classes or meetings, the Interactive Digital Board can be connected to multiple devices.

- When connected to a computer or laptop, it can be used as a large monitor.
- If connected to an AV device, the AV device's video and audio signals will be output through the Interactive Digital Board.
- The board can also be connected to peripheral devices like USB devices, Bluetooth keyboards, microphones, earphones, or headphones.

After connecting other devices, select the appropriate input option from **[General]** menu.



Connecting the Interactive Digital Board to Multiple Devices

Warning

- If you are using the Interactive Digital Board as a large monitor connected to the built-in PC (OPS), you should connect the signal cable to the port designated for the built-in PC (OPS). When using the Interactive Digital Board as a digital board, switch the signal cable to the Interactive Digital Board port.
- Check that the power cable is not connected to the Interactive Digital Board before connecting the signal cable.

Note

- To play media in the highest quality on the Interactive Digital Board, use an HDMI cable.
- For DVI-D and HDMI cables, use a ferrite core built-in shielded interface cable.
- If you cannot hear sound in HDMI mode, check your PC environment. Some PCs require manual changes to the default audio output to HDMI.
- To use HDMI PC mode, turn your PC/DTV to PC mode. HDMI PC may cause device compatibility issues.
- When connecting a gaming device to the Interactive Digital Board, use the cable provided with the gaming device.
- The HDMI OUT port supports only Android/VGA/USB connections; therefore, some content connected via HDMI IN port may not transmit to the HDMI OUT port.

Connecting to External PC

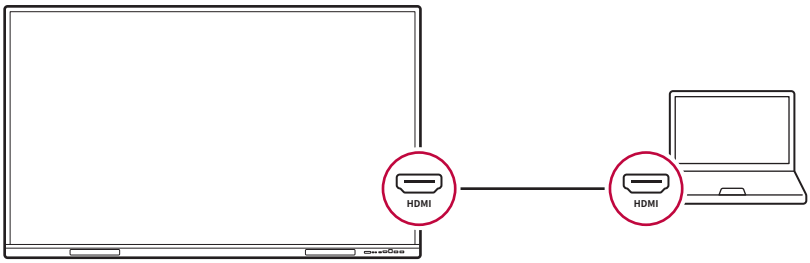
When displaying a file from an external PC during classes or meetings, connect using the provided signal cable.

The Interactive Digital Board supports the Plug and Play feature. Once you turn on the power after connecting the device, the connected device is recognised and ready to use without any additional settings.

Connecting via HDMI Cable

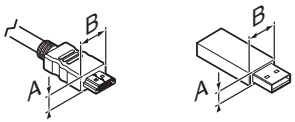
You can transfer a computer's video and audio signals to the Interactive Digital Board via an HDMI cable.

1 Connect the HDMI cable to the HDMI port on the front/side of the Interactive Digital Board.
2 Connect the other end of the HDMI cable to the HDMI port on the external PC.
3 Turn on the power of the external PC.
4 Select the input source from **[General]** menu.



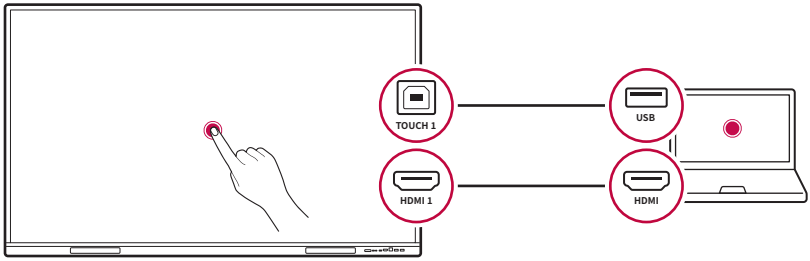
Warning

- Use a high-speed HDMI®/™ cable with a length of 3 m or less.
- Use a certified HDMI cable with the HDMI logo imprinted. The screen may not appear or a connection error could occur if a non-certified cable is used.
- Use a product with a thickness (A) of 11.65 mm or less and a width (B) of 20.65 mm or less to ensure HDMI cable and the USB device are connected properly. (For recommended USB, the thickness (A) should be 8.3 mm or less, and the width (B) should be 16 mm or less.)



Connecting via TOUCH Cable

You can control contents being played from an external PC such as files, photos, or videos by touching them on the Interactive Digital Board. To use this feature, you must connect the HDMI cable and TOUCH cable.



1 Connect the HDMI cable to the HDMI 1 port on the side of the Interactive Digital Board.
2 Connect the other end of the HDMI cable to the HDMI port on the external PC.
3 Connect one end of the TOUCH cable to the TOUCH 1 port on the side of the Interactive Digital Board.
4 Connect the USB port of the TOUCH cable to the USB port on the computer.
5 Select the input source from **[General]** menu.

Note

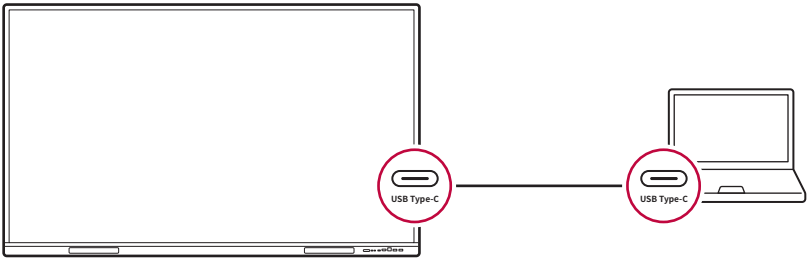
- The TOUCH 1 port on the side is linked with the HDMI 1 / HDMI 2 inputs, and the TOUCH 2 port on the front is linked with the HDMI 3 / HDMI 4 input; therefore, you should connect the TOUCH port according to the input.

Connecting via USB Type-C Cable

You can also transmit audio and video signals using a USB Type-C cable.

Once connected via a USB Type-C cable, you can control the Interactive Digital Board via touch input from an external PC and vice versa. Moreover, this cable supports a maximum power output of 65 W, allowing for quick charging of your laptops or mobile devices without the need for a dedicated charger.

1 Connect your USB Type-C cable to the ⚡ IN (USB Type-C) port located on the front/side of the Interactive Digital Board.
2 Plug the other end of the USB Type-C cable into the USB Type-C port of your external PC.
3 Select the input source from **[General]** menu.



Note

- Please note that not all devices may support charging via USB Type-C, and as such, may not charge as expected.

Connecting Wirelessly

This device supports Miracast and Google Chromecast. It allows you to wirelessly share your screen with PCs or smartphones.

Note

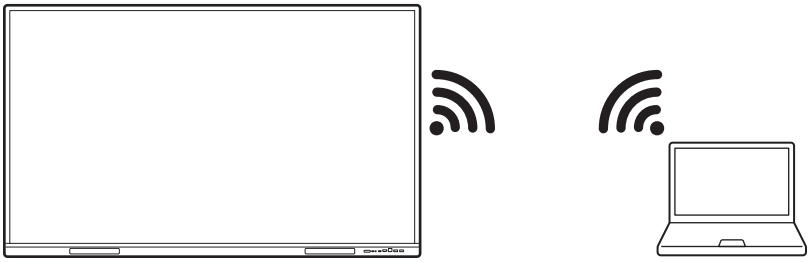
- To use this feature, your external PC must also support Miracast or Google Chromecast.
- The quality of the wireless connection may vary depending on the connection status. For stable transmission, we recommend using an HDMI cable.

1 Connect both your external PC and the Interactive Digital Board to the same Wi-Fi network.

2 On your external PC, type **Display** into the search bar at the bottom of the system bar.

3 Click on **[Connect with multiple wireless devices]** on the display screen. Interactive Digital Board connected to the same Wi-Fi network should appear in the search results.

4 Click on the name of your Interactive Digital Board to connect wirelessly.



Note

- This instruction assumes the user is using Microsoft Windows 8 or 10. If your operating system is Windows 7 or below, you may be unable to use the Miracast feature.
- If your Interactive Digital Board does not appear on the list of devices on your external PC, please double-check that both devices are connected to the same wireless internet network.
- For detailed instructions on how to share a screen wirelessly, please refer to the following.

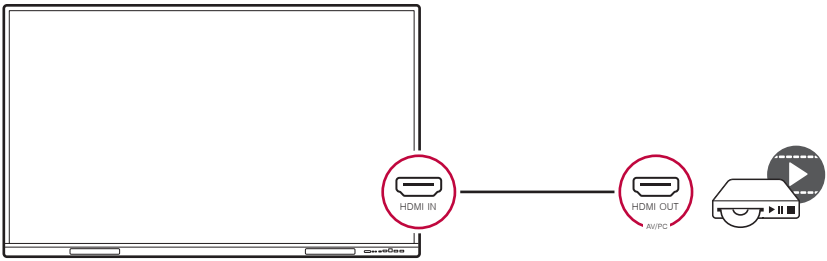
  ▶ **Wireless Screen Sharing**, **Sharing Screens Using [LG CreateBoard Share] App**

Connecting Video Devices

Playing Video Signals on the Interactive Digital Board

You can play video and audio signals on the Interactive Digital Board by connecting AV devices such as HD receivers, DVD and VCR players, and so on. For the best video and audio quality, we recommend using an HDMI cable.

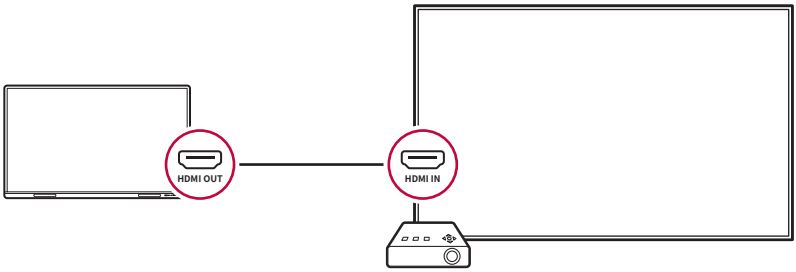
1 Connect the HDMI cable to the HDMI port on the front/side of the Interactive Digital Board.
2 Connect the other end of the HDMI cable to the HDMI port on your video device.
3 Turn on the video device.
4 Select the input source from **[General]** menu.



Playing Interactive Digital Board Signals on a Large Display

You can play video and audio signals from the Interactive Digital Board by connecting it to a beam projector or a large display device.

1 Connect the HDMI cable to the HDMI OUT port on the side of the Interactive Digital Board.
2 Connect the other end of the HDMI cable to the HDMI port on the connecting device.
3 Turn on the connecting device.
4 Select the input source from **[General]** menu.



Connecting Peripheral Devices

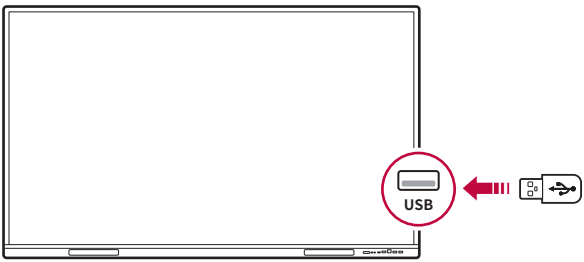
You can connect USB devices such as a mouse or keyboard, as well as headphones, earphones, and microphones.

USB Connection

You can connect USB devices.

1 Connect the USB device to the USB port on the front/side of the Interactive Digital Board.

2 Select the input source from **[General]** menu.



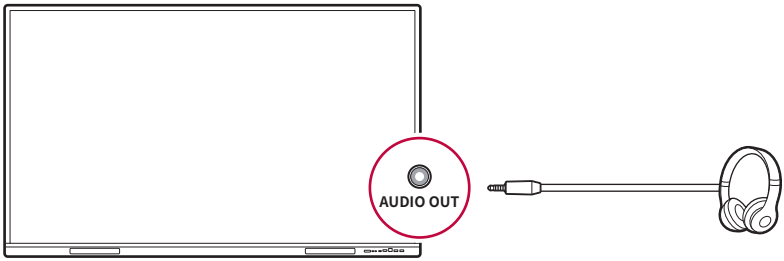
Headphones, Earphones, and Microphones Connection

You can connect and use headphones, earphones, or microphones.

Outputting Audio Signals from the Interactive Digital Board

You can listen to audio signals from the Interactive Digital Board on earphones or headphones.

1 Connect your headphones or earphones to the AUDIO OUT port on the bottom of the Interactive Digital Board.
2 Select the input source from **[General]** menu.



Note

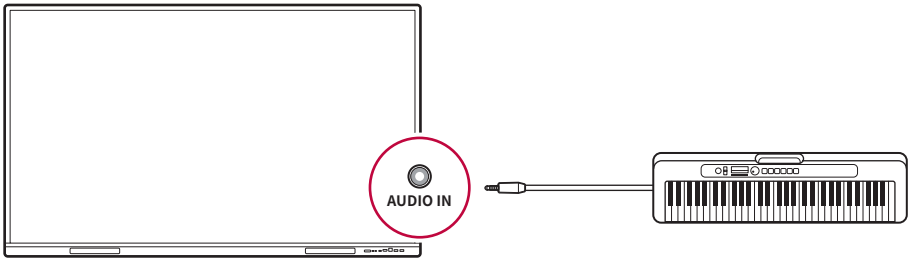
- Headphones or earphones are sold separately.
- Depending on the sound settings of your computer and peripheral devices, the operation of headphones and speakers may be limited.

Inputting Audio Signals to the Interactive Digital Board

You can transmit audio signals from sound devices such as synthesisers, amplifiers, keyboard pianos, or microphones by connecting them to the Interactive Digital Board.

1 Connect the output port of the sound device to the AUDIO IN port on the bottom of the Interactive Digital Board.

2 Select the input source from **[General]** menu.



Note

- Audio devices are sold separately.

Using the Interactive Digital Board

The LG SIGNAGE Interactive Digital Board is a touch-based display, and if you have experience with smartphones or tablets, you can use it proficiently. This product is equipped with an OPS (Open Pluggable Specification, built-in PC (OPS)) slot. Therefore, you can use the features that are extended to a PC without connecting an external desktop.

Warning

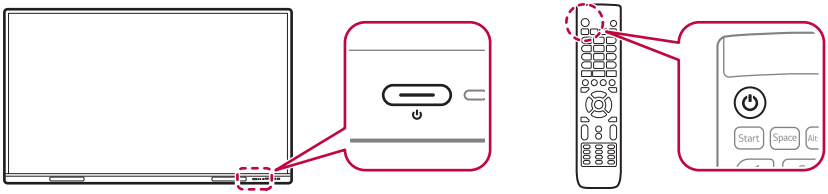
- This product is intended for indoor use. Please do not use it outdoors.

Note

- The built-in PC (OPS) is sold separately. If you wish to purchase it, please contact LG Electronics.
- The panel of the product is made with advanced technology comprising millions of pixels. Abnormal colour spots may appear on the screen due to inactive pixels when using the product. This is not a product defect and does not affect the product performance and reliability.

Power On/Off

Press and hold the power button on the front of the Interactive Digital Board, or press the power button ( ) on the remote control.



Warning

- Pressing the screen for a long time with a finger may cause temporary distortion to appear on the screen.
- Afterimage may appear if the same scene is outputted for a long time. Use a screen saver if possible.
- Using wireless devices close to the Interactive Digital Board may result in abnormal video output.

OOBE (Out Of Box Experience)

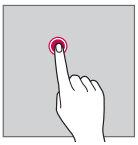
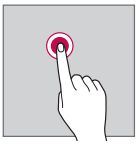
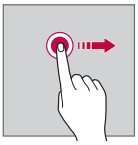
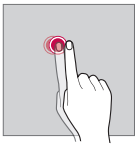
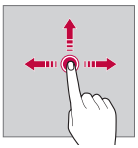
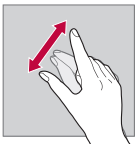
When a user first turns on CreateBoard, the OOBE is displayed. The OOBE consists of a series of screens that guide you through the initial basic settings, enabling users through simple operations to complete the setup and use the product.

The following functions are available.

Function
Language settings, network settings, terms of use agreements, etc.

Screen Operation

You can execute various functions by operating the screen with your hand or touch pen as follows.

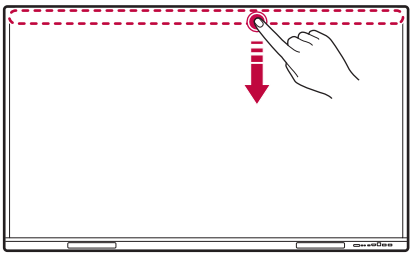
Image	Operations	Description
	**Light Press**	Select and execute the item.
	**Long Press**	Display and set the details of the item.
	**Drag While Long Pressing**	Move the item to the desired location after selecting it, or select the desired part in the text.
	**Quick Double Press**	Open a folder or run a file.
	**Swiping Left, Right, Up, or Down**	If there is a lot of content displayed on the screen or if the document has a many number of pages, you can swipe the screen left, right, up, or down to display them.
	**Pinch or Spread Fingers**	With two fingers on the screen, you can pinch or spread your fingers to zoom in/out on the screen.

Using Gesture Functions

If you swipe up or down on a specific area of the screen with your hand, hidden features are displayed.

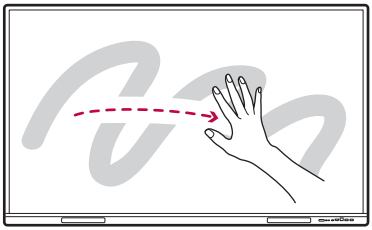
Swiping Down from the Top of the Screen

When using apps such as browsers, memos, and so on in full-screen mode, swiping down from the top of the screen displays a menu to set the screen display method.



Erasing with the Palm

You can easily erase handwriting or hand-drawn pictures on the screen with your palm or the side of your hand. Simply rub the part you wish to erase gently with your palm.



Note

- You can erase letters and pictures written in apps such as Note and LG CreateBoard Lab. However, text or shapes cannot be erased with the palm gesture.

Using the keyboard

When you need to input characters or numbers on the screen, a keyboard will automatically appear.

You can move the keyboard to your preferred location and operate it.

Note

- Depending on the language used, the location of the language switch key on the keyboard varies.
- The location of the keys may vary depending on the language used.
- The keyboard usage settings can be changed from the menu. **[Settings]** → **[System]** → **[Language & Input]** → **[On-screen keyboard]**

Understanding the Multi-Window

The Multi-Window feature enables you to run multiple apps at once and display them on one screen.

You can have up to four pieces of information displayed at once, allowing you to efficiently exchange or use information by dragging and dropping content from one app to another.

You can utilise the screen by splitting it into four, or run multiple apps simultaneously on pop-up windows.

Note

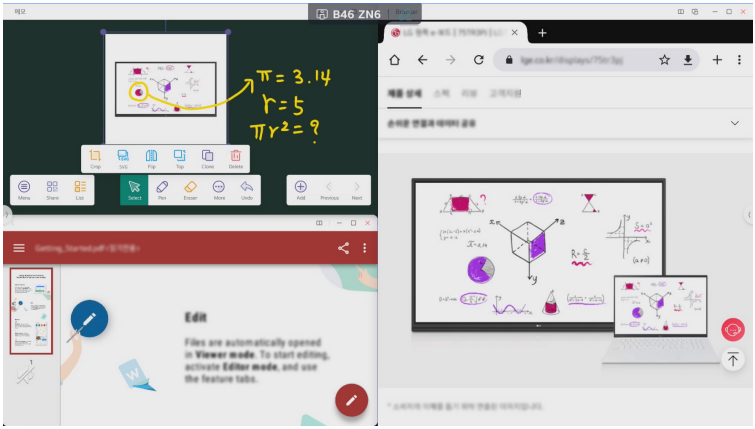
- Note that some apps may not support the Multi-Window feature.

Running Multi-Window

1 Turn on the switch at Toolbar → **[Settings]** → **[Administrator]** → **[Multi-Window Mode]**.

2 After running the desired app, press on the title bar of the app screen to display options.

3 Specify where the app will be displayed. Depending on the options, you can display it in either 2-way or 4-way split.



Note

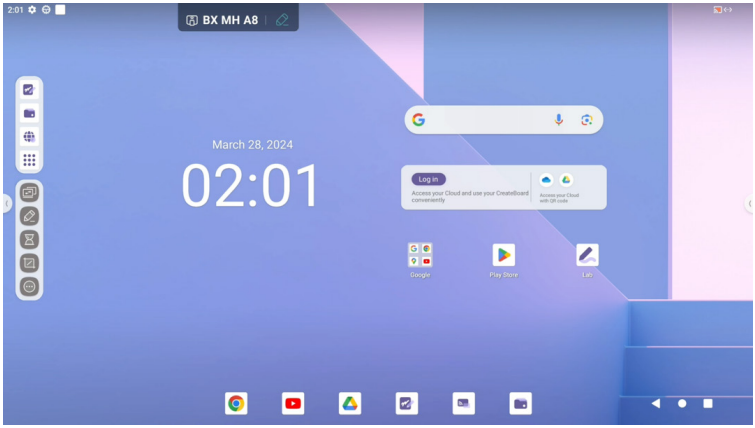
- To display one app on the entire screen, press on the app screen title bar.
- If you want to freely split the screen without using the Multi-Window icon, hold down the app name display bar and drag the screen to the corner of the desired location. A split-screen guide line will be displayed.

Moving Content Freely

In the split-screen state, you can move images or text from one screen to another.

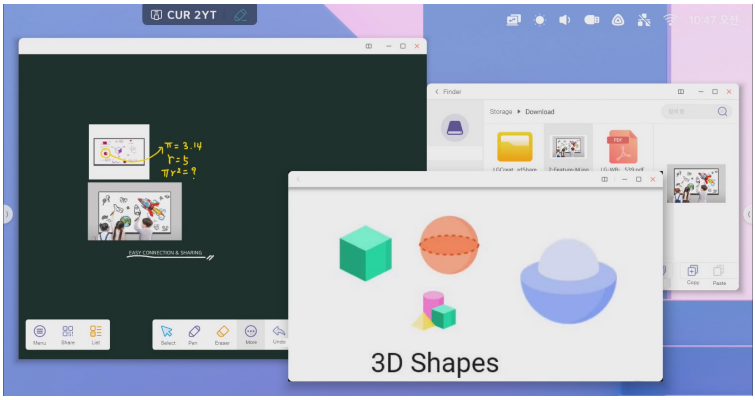
1 Run your desired apps using Multi-Window.

2 Copy and paste the image or text you want by dragging and dropping it to the desired location.



Viewing as Pop-Up Screen

When the Multi-Window mode is running, long-press the title bar of the split window and drag the screen to the desired location. The split will be cancelled and displayed as a pop-up screen.



Connecting to a Network

Connecting via Wi-Fi

You can use the internet by connecting to a wireless network.

1 In the toolbar, select → **[Settings]** → **[Network & Internet]** → **[Internet]**. A list of available Wi-Fi networks will appear.

2 Select the Wi-Fi network you want to connect to. If a password is required, you must enter it.

Note

- If the Wi-Fi network you want to use is not found, you can manually add a Wi-Fi network by pressing +.

Connecting via Ethernet

You can use wired internet by connecting a LAN cable to the wired LAN port on the side of the product.

1 In the toolbar, select → **[Settings]** → **[Network & Internet]** → **[Ethernet]**.

2 Turn on the Ethernet switch.

Connecting via Bluetooth

You can use the product in conjunction with a Bluetooth device via Bluetooth communication.

1 In the toolbar, select → **[Settings]** → **[Connected devices]** → **[Pair new device]** to turn on the Bluetooth switch.

2 Set the device you want to connect to enter the Bluetooth pairing mode.

Setting as a Hotspot

You can share a wireless network with other products by setting the product as a hotspot.

1 In the toolbar, select → **[Settings]** → **[Network & Internet]** → **[Hotspot & tethering]**.

2 Turn on the hotspot switch.

Note

- To change the initial settings such as the hotspot name or password, press the hotspot name or password.

Setting up Share Network

(Depending on model)

External devices can use the network through a Type C cable connected to the product. The product must be able to connect and use a separate network, and the external device can use the network simply by connecting a cable to the product.

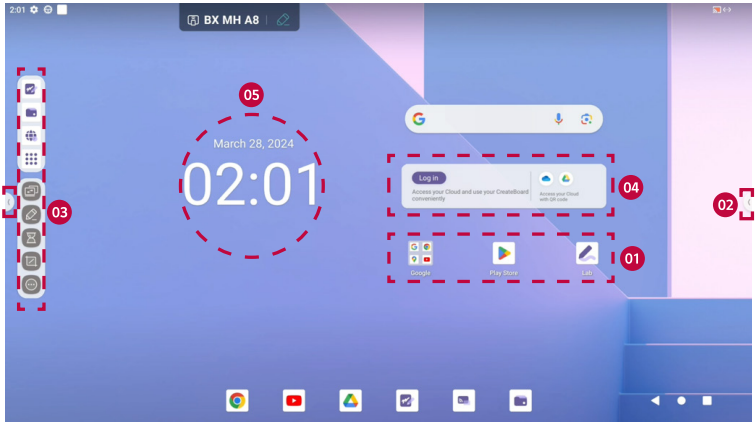
Note

- The default setting for Share Network is On. You can configure the Share Network status by toggling the Share Network setting On/Off.

Understanding the Screen

Start Screen

Learn about the Start screen to become familiar with the product.



No.	Function	Description
01	Shortcuts	Displays frequently used apps or files on the desktop for quick execution. Refer to the following for more detailed explanations. ▶ Understanding the Multi-Window
02	Toolbar Handler	You can display or hide the toolbar.
03	Toolbar	Displayed on both sides of the screen. Allows quick execution of system tools, apps, additional tools, etc. Refer to the following for more detailed explanations. ▶ Toolbar Handler and Toolbar
04	Cloud Drive Widget	Allows you to use cloud services using your existing cloud account. Refer to the following for more detailed explanations. ▶ [Cloud Drive]
05	Digital Clock	Displays the date, current time.

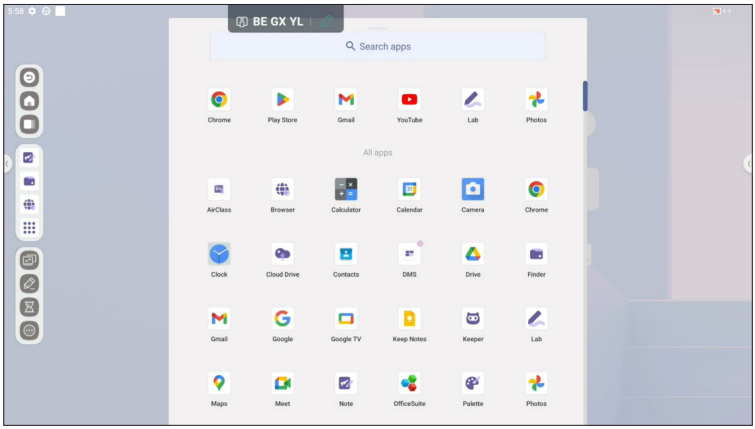
Home Screen

You can create shortcuts to frequently used apps, files, web pages, and features for quick access, modification, or deletion.

Adding Shortcuts

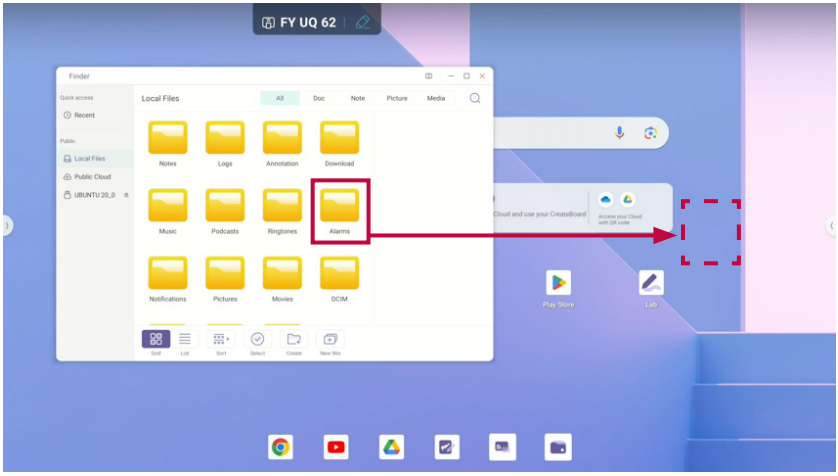
Adding App Shortcuts

1 Press on the toolbar to display all apps, and select an app you want to set as a shortcut.
2 Drag the app to your desired location on the desktop. The shortcut will be added to your screen.



Adding File or Folder Shortcuts

1 Run the → **[Finder]** app from the toolbar.
2 After displaying all items, select the file or folder you want to create a shortcut for.
3 Drag the selected item to your desired location on the desktop. The shortcut will be added to your screen.

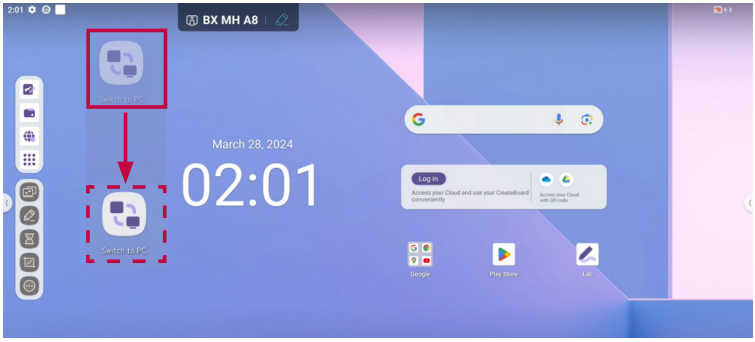


Alternative method:

1 Run the **[Finder]** app and select the file or folder you want to make a shortcut for.
2 Display the options for the selected file or folder.
3 Select **[Send]** → **[Shortcut]**. The shortcut will be added to your screen.

Moving Apps or Folders

Long press the item you want to move and drag it to your desired location.



Deleting Shortcuts

You can delete unwanted shortcuts from your Home screen.

1 Long press the item you want to delete.
2 Select **[Remove]**.

Changing Wallpaper

You can change the desktop wallpaper.

1 Select → **[Settings]** → **[Wallpaper]** from the toolbar.
2 Select your desired wallpaper from wallpapers provided by default.

Note

- The default wallpapers may change depending on the firmware.

Toolbar Handler and Toolbar

Toolbar Handler

Clicking on the (toolbar handler) on either side of the screen will display a toolbar with immediately executable features. When the toolbar is hidden, you can change the position of the handler up and down the screen side by dragging it.

Note

- You can also use the toolbar handler displayed at the bottom of the screen.
  Select → **[Settings]** → **[Administrator]** → **[Side Toolbar Hiding]** from the toolbar.

Toolbar

It allows quick execution by adding only frequently used apps or features. It also allows you to check and control the current task situation.

It can display basic system tools like the go back button, frequently used apps, and auxiliary tools like screen recording at once for quick execution.

System Tools

It is composed of a go back button, Home button, and recently used apps button, similar to the mobile environment.

Icon	Function	Description
	Go Back	Navigates to the previous screen.
	Home	Navigates to Home screen.
	Recently Used Apps	A list of recently used apps is displayed.

App Tools

This feature allows you to gather your favourite apps in one place.

You can add up to 4 apps to the App Tool. If there are no room for additional apps, you must first delete an existing app from the favourites.

Adding Desired Apps to the Toolbar

1 Press to display all apps.
2 Drag the desired app towards the toolbar. The app will be added to the toolbar.

Deleting Apps from the Toolbar

1 Long press the app you want to delete.
2 Press . The app will be deleted from the toolbar. You can find the deleted app again by pressing .

Auxiliary Tools

These are special features that you can utilise while using apps. You can add up to 4 auxiliary tools to the toolbar. If there are no room for additional tools, you need to first delete an existing feature from the favourites. For a detailed explanation about auxiliary tools, please refer to the following.

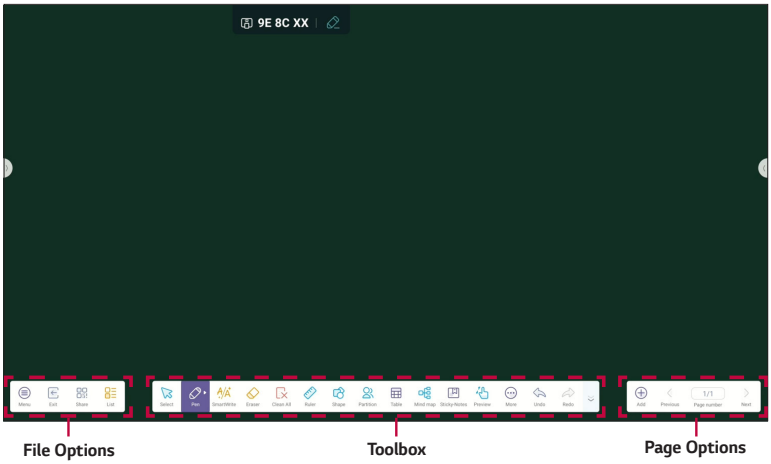
▶ Understanding the Auxiliary Tools

[Note] Writing on the Board

Experience the familiarity of an analogue board combined with the convenience of a digital display. You can easily write on the board using the features provided by the Note app.

Getting Started

Run the → **[Note]** app from the toolbar. The default screen of the **[Note]** app is displayed.



Creating a New File

To create a new file, select **[Menu]** → **[New]**.

Importing a File

You can display various types of files, such as image files, PDFs, and SVGs, in the Note app.

Press **[Menu]** → **[Import]**, then select the file you want.

Opening a Saved Document

You can display saved files in storage in the Note app.

Press **[Menu]** → **[Open]**, then select the file you want.

Changing the Background Theme

You can use pre-provided background themes and templates for various materials.

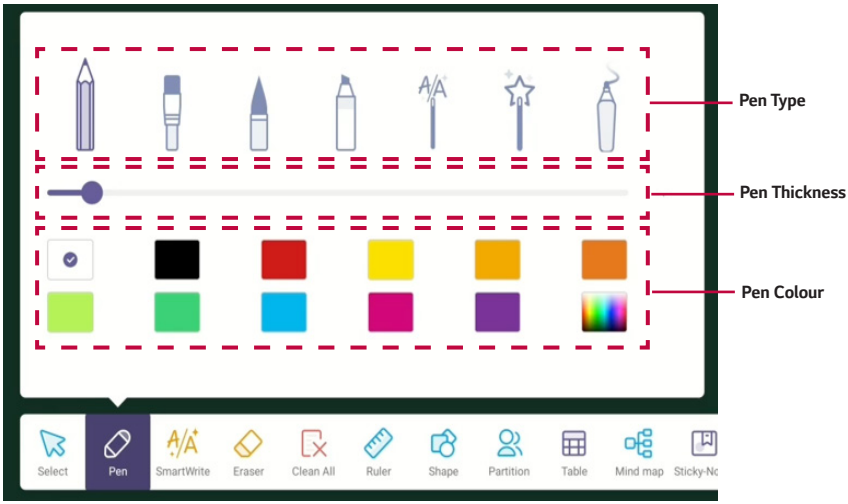
Press **[Menu]** → **[Theme]**, then select the theme you want.

Writing, Drawing, and Editing

Writing and Drawing

To write or draw by hand on the Interactive Digital Board, select **[Pen]**.

You can adjust the type, colour, and thickness of the pen as you wish.

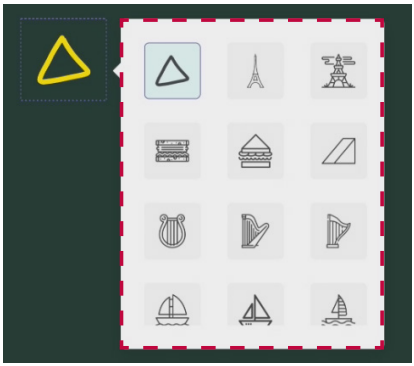


Note

- With the Dual Pen feature, you can designate two colors for use with the pen, enabling writing and drawing.
- The initial setting for the dual pen is Off. You can change to use a dual pen and not the single pen in the settings menu. (Bottom left **[Menu]** → **[Settings]** → Dual pen)
- When using a dual pen, different colors may be displayed depending on the angle the pen comes into contact with the screen.

Recognising Hand Drawings

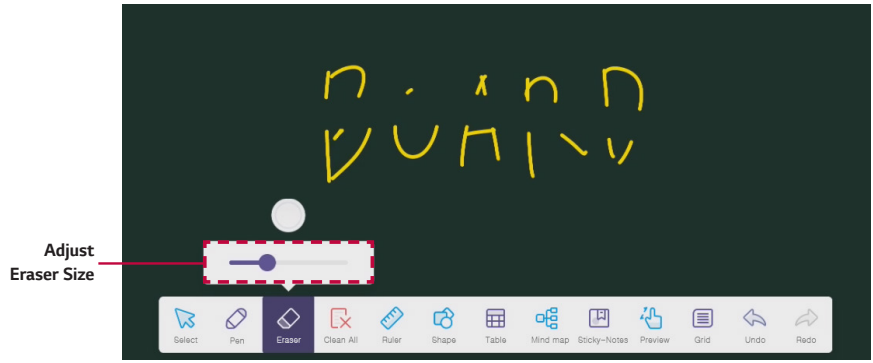
When you select from the pen type and draw a simple point, line, or shape, a list of illustrations similar to the hand drawings saved in the Note app appears. You can easily use the illustrations built into the Interactive Digital Board.



Erasing Handwriting

To erase handwriting or hand drawings, select **[Eraser]** and rub the area you want to erase with a touch pen.

Alternatively, you can rub the area you want to erase with your palm.



Note

- You can only erase handwriting and hand drawings written with a pen or by hand. To erase shapes, tables, or mind maps, press **[Select]** to delete or select **[Clean All]**.

Deleting All Content

To delete all handwritten or hand-drawn content at once, select **[Clean All]**.

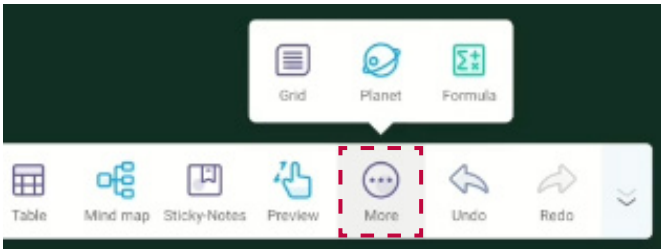


Note

- All content on the screen, including handwriting, shapes, tables, and mind maps, is deleted.
- Until you save the written content or exit the Note app, you can restore the content to its original state with **[Undo]**.

Using the Extension Tools

In addition to the pen and eraser, you can use various extension tools provided by the Note app in classes or meetings.

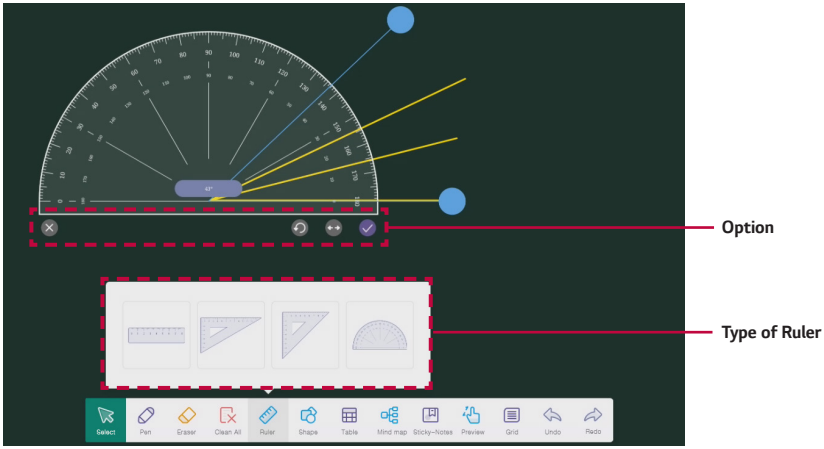


Note

- When the multi-window function is on, click **[More]** to view and use extension tools.

Using Rulers and Protractors

To use a ruler or protractor, select **[Ruler]** and then select the option you want to edit.



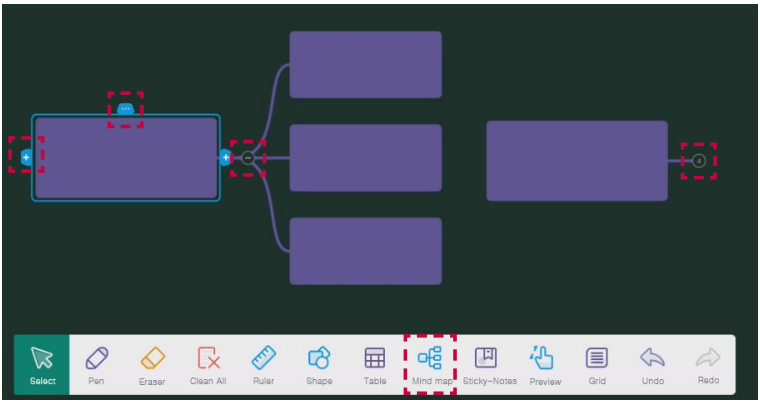
Option	Description
	You can delete the protractor or ruler.
	Adjusts the angle of the protractor or ruler.
	Adjusts the horizontal length of the protractor or ruler.
	Marks the angle of the protractor with a pen. You can erase the part marked with a pen with an eraser.

Displaying Shapes

To display various shapes, select **[Shapes]**. You can use various types of shapes, including solid lines, dotted lines, arrows, 2D shapes, and 3D shapes.

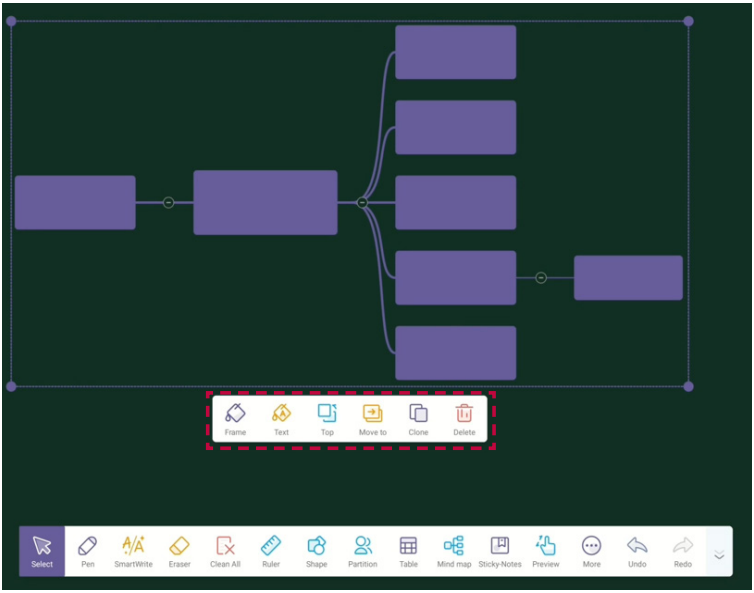
Displaying Mind Maps

To use mind maps in classes or meetings, select **[Mind map]**.



Option	Description
	You can delete the selected cell.
	You can expand the mind map.
	You can reduce the mind map.
	Press ⊖ to display the number of reduced cells as a number.

You can also select options to edit while the mind map is selected.



Option	Description
[Frame]	You can change the colour of the mind map.
[Text]	You can change the colour of the text entered in the mind map.
[Top]	You can move the mind map to the top.
[Clone]	You can duplicate the mind map.
[Delete]	You can delete the mind map.
[Move to]	You can move to another page.

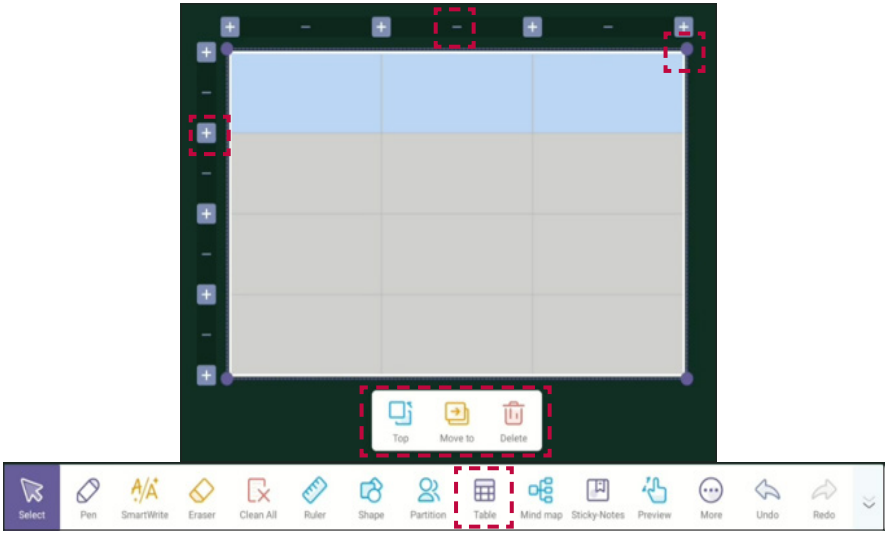
Note

- When you handwrite text inside a mind map, it is automatically converted to smart writing.
- The smart writings inside the mind map cannot be erased with an eraser. To erase text converted to smart writing, select **[Clean All]** or delete the mind map.

Creating and Editing Tables

To use a table in class, select **[Table]**.

In the pop-up window, you can insert a table by designating the row and the column with your finger. You can also add and delete rows or columns in the inserted table using the displayed options.



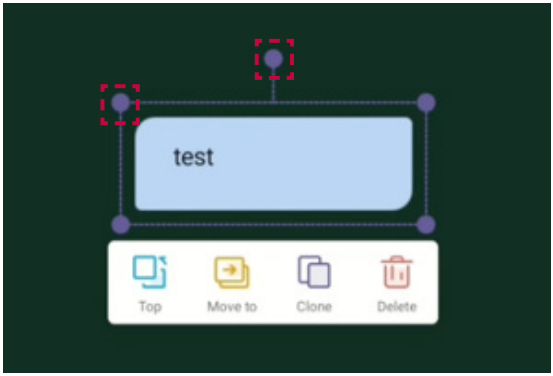
Option	Description
●	You can adjust the size of the table.
+	You can add rows and columns to the table.
—	You can delete rows and columns from the table.
[Top]	You can move the table to the top.
[Move to]	You can move to another page.
[Delete]	You can delete the table.

Note

- You can also expand or reduce the table size by touching the screen with your hand.
- Text converted to smart writing cannot be erased with an eraser. To delete text in a table, use the select function to select the entire text area and then delete.

Pasting Sticky-Notes

To keep important information on the screen, select **[Sticky-Notes]**.



Option	Description
●	You can adjust the size and angle of the sticky note. The text of the sticky note is also adjusted.
[Top]	You can move the sticky note to the top.
[Move to]	You can move to another page.
[Clone]	You can duplicate the sticky note.
[Delete]	You can delete the sticky note.

Note

- Sticky note content can only be written with a virtual keyboard, and cannot be erased with an eraser.
- You can choose one of the four colours for the sticky note. Once created, the colour of the note cannot be modified.

Returning to the State Before/After Modification

To return to the state before or after the current screen is modified, select **[Undo]** or **[Redo]**.

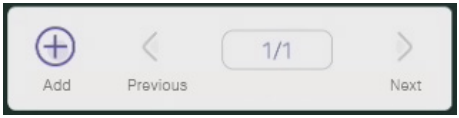


Warning

- If you have not saved in the interim, you can return to the state before or after, but if you saved in the interim, you can only return until to the saved state.

Adding New Board/Moving the Board

You can add a new board like a paper page. You can also move on a page-by-page basis. Click the option displayed in the bottom left of the Note app.



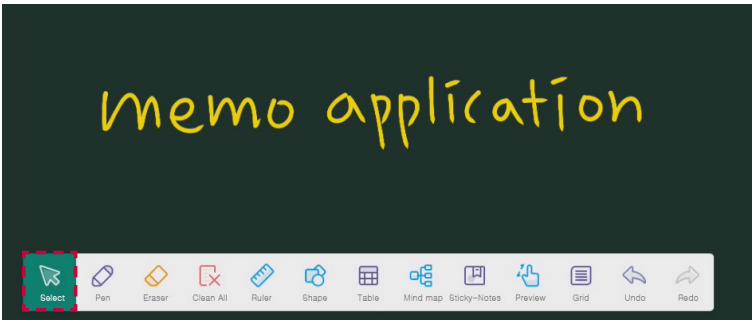
Option	Description
[Add]	You can add pages.
[Previous]	You can navigate to the previous page.
[Next]	You can navigate to the next page.

Editing Written Content

Editing the Content

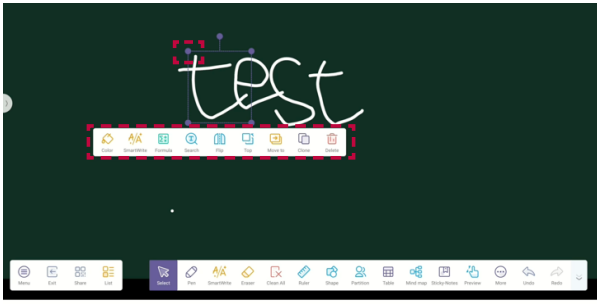
To edit the written content, select **[Select]**.

You can select the handwriting or the image you wrote or drew as an area with a pen or your hand, and then move or adjust the size of the selected object.



Editing Handwriting

To edit handwriting, use the options displayed on the selected handwriting. You can change the colour of the text and copy them. You can also use various options like converting handwriting to text, searching on the web, etc.



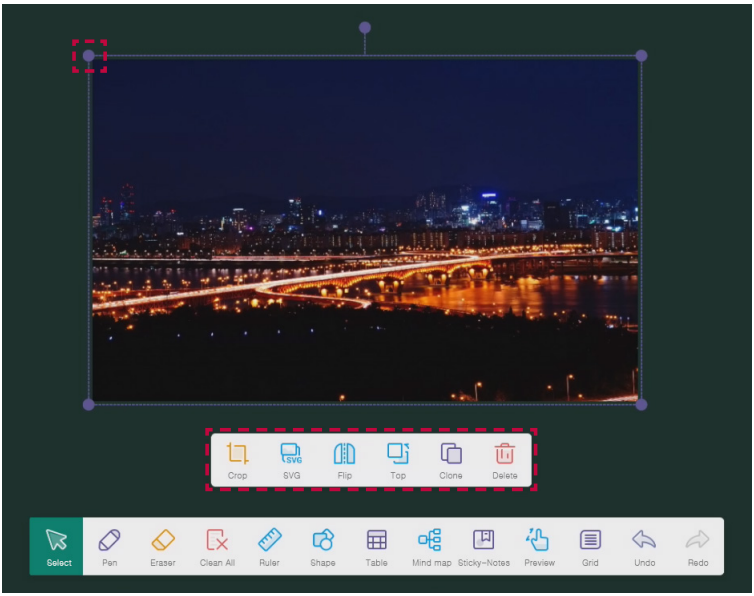
Option	Description
●	You can adjust the size and angle of the handwriting. The text in the handwriting is also adjusted.
[Color]	You can change the colour of the handwriting.
[SmartWrite]	This feature can recognise handwriting and convert it into computer font.
[Search]	This feature can recognise handwriting and search it on internet.
[Flip]	You can flip the handwriting vertically or horizontally.
[Top]	You can move the handwriting to the top.
[Clone]	You can duplicate the handwriting.
[Delete]	You can delete the handwriting.

Editing Loaded Images

To use images, follow these steps.

1 Select **[Menu]** → **[Import]** to load saved images.

2 Select the desired option to edit.



Option	Description
●	You can adjust the size and angle of the image.
[Crop]	You can crop the image to the desired area.
[SVG]	You can convert the image into a vector format.
[Flip]	You can flip the image vertically or horizontally.
[Top]	You can move the image to the top.
[Clone]	You can duplicate the image.
[Delete]	You can delete the image.

Saving, Exporting, Sharing

Select the menu at the bottom left of the Note app screen.



[Menu] **[Share]** **[List]**

Save

Select **[Menu]** → **[Save]**.

Save As

Select **[Menu]** → **[Save as]**.

Exporting to Various File Formats

You can convert and save as Image, PDF, SVG, IWB file formats.

Select **[Menu]** → **[Export]**.

Saving to Cloud Storage

Google Drive and Microsoft OneDrive are supported for cloud storage.

Select **[Menu]** → **[Cloud Storage]**.

Sharing via Email

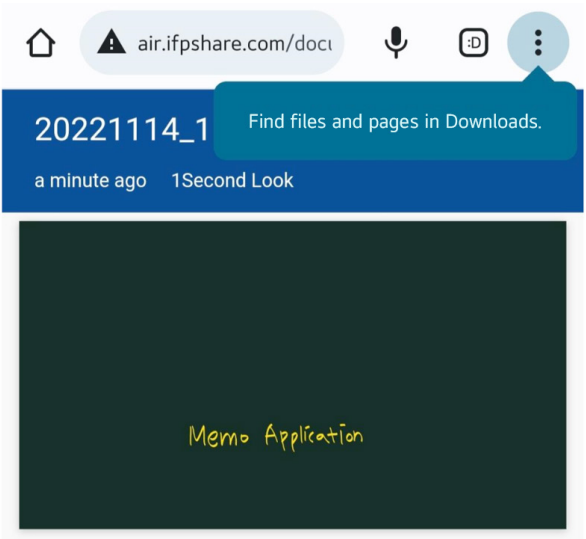
You can link your email account and send the entire page via email.

Select **[Menu]** → **[Send Email]**.

Downloading to Mobile by Scanning QR Code

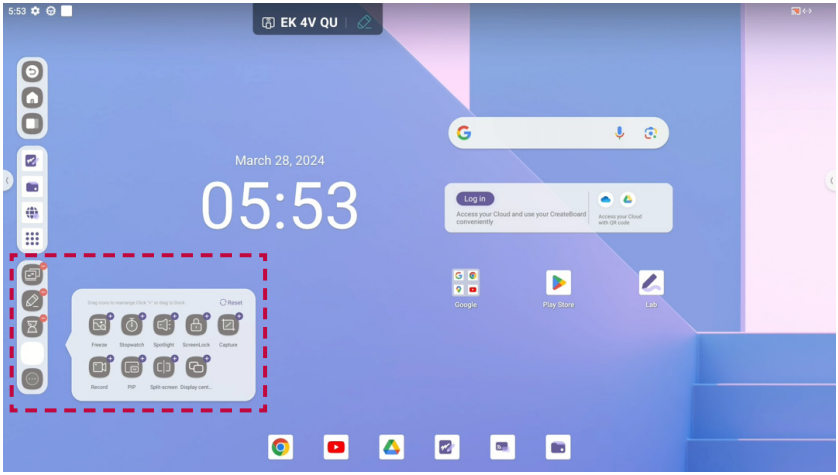
Selecting the **[Share]** button and scanning the QR code with your mobile phone enables you to download the Note app screen file to your mobile device.





Understanding the Auxiliary Tools

Attract students' attention during classes with the special features of the Interactive Digital Board. You can use auxiliary tools in all apps.



Adding Desired Auxiliary Tools to the Toolbar

You can add or remove frequently used features among the auxiliary tools to the shortcut area to rearrange them. You can add up to 4 tools to the shortcut area.

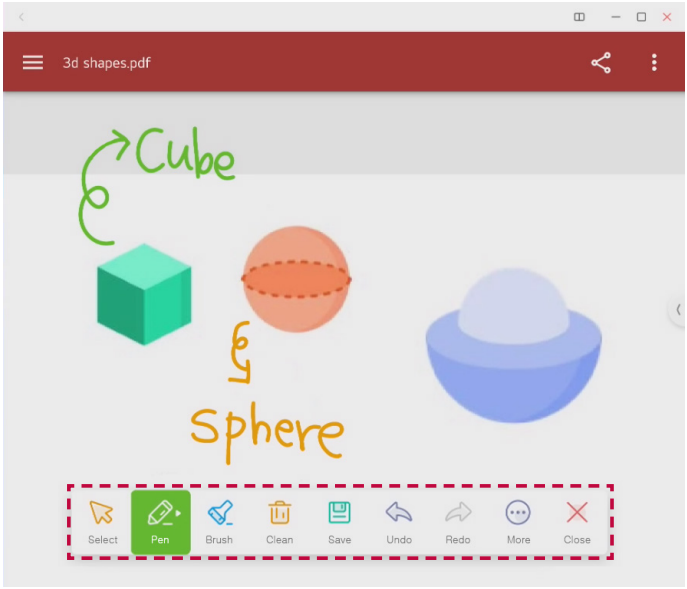
1 Press to display all auxiliary tools.
2 Press next to the desired tool. The app will be added.

Deleting Auxiliary Tools from the Toolbar

1 Press and hold the tool to delete.
2 Press . The tool will be deleted. You can find the deleted tools again by pressing .

Adding Annotations Easily and Conveniently

Selecting annotations from the auxiliary tools enables you to add annotations or draw on a variety of source files, such as apps, videos, and website documents. You can choose from the following options.



Option	Description
[Select]	This is used to stop annotation mode and select other files.
[Pen]	Sets the colour and thickness in the Pen mode.
[Brush]	Sets the colour and thickness in the Brush mode.
[Clean]	Deletes all annotation content. If you want to delete only part of the content, erase it by rubbing the screen with your palm.
[Save]	Saves the screen content with added annotations.
[Undo]	Returns to the step before modification.
[Redo]	Returns to the step after modification.

Option	Description
[More]	Displays more features. • **[Finder]**: Launches the Finder app. • **[Insert]**: Opens the screen with added annotations in the Note app. • **[Insert (Lab)]**: Opens the screen with added notes in the LG CreateBoard Lab app. • **[Share]**: Shares the screen with added annotations through a QR code. • **[Cloud]**: Saves the screen with added annotations in the cloud drive. You can check the saved screen in the cloud drive.
[Close]	Turns off the annotation feature.

Zooming In/Out

Selecting **[Freeze]** from the auxiliary tools enables you to stop the currently playing screen and zoom in/out on a specific part. In the zoomed-in or zoomed-out state, you can choose the following options.



Option	Description
	You can enlarge the size of the stopped screen.
	You can reduce the size of the stopped screen.
	You can revert the zoomed-in/out screen to the full screen.
	You can exit the screen freeze tool.

Switching to PC Mode

Selecting **[Switch to PC]** from the auxiliary tools enables you to switch to the built-in PC (OPS) mode.

You can also switch to PC mode in the following ways.

- Select **[PC]** in the **[General]** menu.
- Press  in the top right of the Interactive Digital Board screen to select **[General]** → **[PC]** to switch to the built-in PC (OPS).
- Press the **Input** button on the remote control, and then select **[PC]**.

Note

- The built-in PC (OPS) is sold separately. If you want to purchase the built-in PC (OPS), please contact LG Electronics.
- For detailed information on using the built-in PC (OPS), refer to the following.

▶ Using the Built-in PC (OPS)

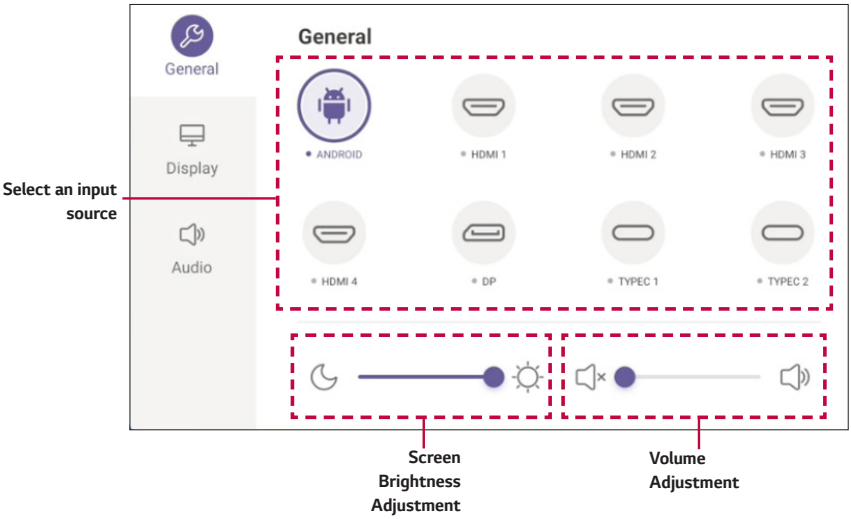
Connecting Input/Output Devices, Adjusting Volume/Screen

You can set input/output connection devices by selecting **[Menu]** from the auxiliary tools.

You can also display the input/output device settings in the following way.

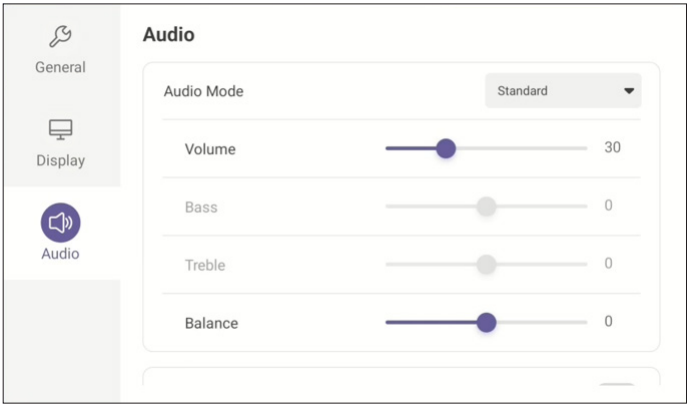
Input/Output Device Settings

In the **[General]** menu, you can easily adjust screen brightness and volume, and connect your desired input/output device to the Interactive Digital Board.



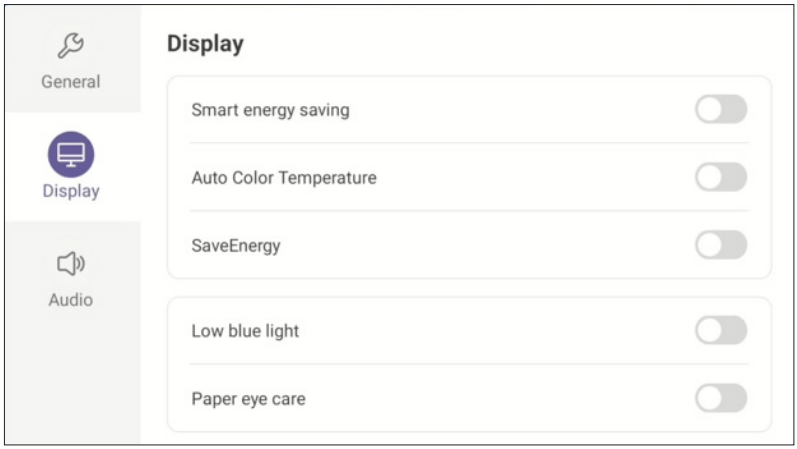
Audio Settings

Distinguishes and recommends appropriate acoustic conditions for each location such as standard, meeting, and classroom. You can also set the desired balance. Additionally, you can set to mute when necessary.



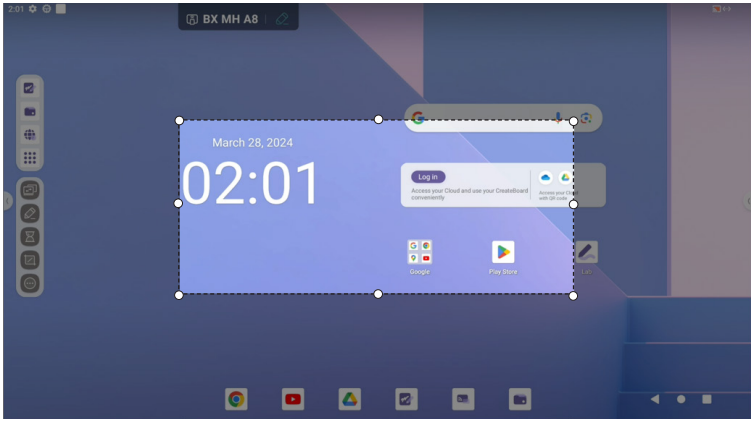
Display Settings

Recommends display settings with suitable brightness and contrast, such as Standard, Cold, and Warm. You can adjust these settings as desired. The intensity of blue light emitted from the Interactive Digital Board can also be adjusted for a more comfortable viewing experience.



Capturing Content

You can select **[Capture]** in the auxiliary tools to cut out a portion of the screen.



Pressing the capture tool enables you to select from the following options.

Option	Description
[Freedom]	You can freely specify the screen to be cut.
[Full]	You can cut the entire screen.
[Window]	If there is a window on the screen, you can automatically specify the capture area to match the size of the window.
[Save]	You can save the cut screen to internal storage or a cloud drive.
[Insert to Note]	You can link with the Note app to insert the cut screen as an image.
[Insert (Lab)]	The cropped screen can be inserted as an image using the LG CreateBoard Lab app.
[Mail]	You can link with your email account to send the cut screen via email.
[Exit]	You can exit the capture tool.

Highlighting Specific Areas

You can select **[Spotlight]** in the auxiliary tools to show only a specific part of the screen brightly with a spotlight.



Pressing the spotlight tool enables you to select the following options.

Option	Description
[Setting]	• **[Zoom]**: You can adjust the size of the spotlight area. • **[Clarity]**: You can adjust the contrast between bright and dark areas.
[Exit]	Exits the spotlight tool.

Recording Meeting or Class Content

You can select **[Record]** in the auxiliary tools to record contact-free lectures or meeting content for future reference. You can record lectures and meetings, including voices, along with writing on the board.

Recording

1 During a class or meeting, press **[Record]** → Rec in the auxiliary tools. Recording starts after 3 seconds.
2 Press ⏸ to pause the recording, and press ■ to end the recording.

Note

- Saved content can be found in **[Finder]** → **[Local Files]** → **[Record]**.

Measuring Time or Setting Alarm

You can select **[CountDown]** in the auxiliary tools to set the necessary alarm, or select **[Stopwatch]** to measure time precisely. Additionally, if you choose Notify on timeout, you will be notified via a ringtone.

Locking Screen

You can select **[Screen Lock]** in the auxiliary tools to lock the screen when the Interactive Digital Board is not in use.

To use this feature, you must first set a password. For a detailed explanation of enabling and disabling passwords, refer to the following.

Splitting Screen

You can select **[Split-screen]** in the auxiliary tools when you need to split the screen to run two apps simultaneously.

1 During a class or meeting, select **[Split-screen]** in the auxiliary tools.

2 Select and run the app you want to display on split-screen. The app will run on one side of the screen.

3 Select another app to run. The selected app will also run on the remaining screen.

Note

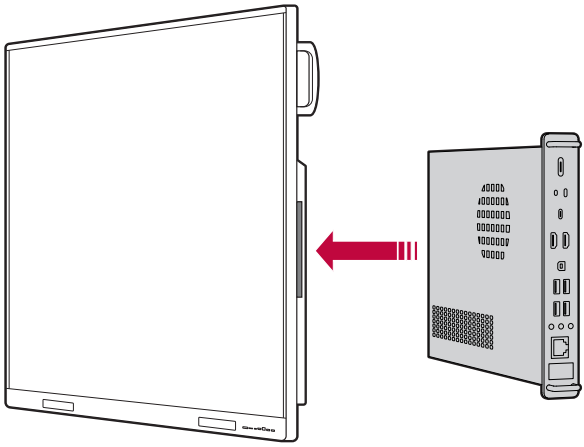
- This function only works when the multi-window feature is turned off.
- To close one side of the screen, press ⊗. To swap the positions of the two screens, press ⇌.
- The apps that can be displayed on split-screen are Note, Settings, Keeper, Finder, Palette, and Browser.
- The multi-window feature allows for a 4-way split, but the auxiliary tools only support a 2-way split.
- For more details on Multi-Window, refer to the following.

▶ Understanding the Multi-Window

Using the Built-in PC (OPS)

Introduction to Built-in PC (OPS)

You can install this product with a built-in PC (OPS) equipped in the OPS (Open Pluggable Specification) slot. With a built-in PC (OPS) equipped, you can use various extension functions without the inconvenience of having to connect to an external desktop, and can switch between Windows PC mode and Interactive Digital Board mode as needed.



Note

- The built-in PC (OPS) is sold separately and may be difficult to purchase depending on the region. If you want to use it, purchase a separate standard OPS product.
- The following instructions assume you are purchasing a built-in PC (OPS).

Connecting the Internet to the Built-in PC (OPS)

If you wish to use the internet with the built-in PC (OPS) equipped in the OPS slot, follow these instructions.

- Wireless Internet: Connect to the same Wi-Fi network as the Interactive Digital Board.
- Wired Internet: Connect a LAN cable to the LAN port on the Interactive Digital Board. Both the Interactive Digital Board and the built-in PC (OPS) will be connected to the internet.

Note

- If you connect a LAN cable to the cable port of the OPS slot rather than the LAN port on the side of the Interactive Digital Board, the network will only be connected to the built-in PC (OPS), making the internet unavailable on the Interactive Digital Board.
- To connect an external laptop or desktop other than a built-in PC (OPS), connect it to the Interactive Digital Board using an HDMI cable or USB Type-C cable.

Launching Built-in PC (OPS)

The built-in PC (OPS) can be launched using the following methods.

- Press  at the top right of the Interactive Digital Board screen to select **[General]** → **[PC]**.
- Press the toolbar handler to display auxiliary tools, and then select **[Switch to PC]** from the auxiliary tools.
- Select **[PC]** in the **[General]** menu.

Note

- To log in as an administrator, enter your password and press the <**Enter**> key on the virtual keyboard. Regular accounts can log in directly without a password.
- This product remembers the external input status last used. If the built-in PC (OPS) was last used, it will be automatically launched when you turn on the Interactive Digital Board again after shutting it down.

Using Auxiliary Tools on the Built-in PC (OPS)

You can use the auxiliary tool functions of the Interactive Digital Board in PC mode as well. Press the toolbar handler on both ends of the PC mode screen to display the auxiliary tools, and then select the necessary auxiliary tools to use them.



Note

- Auxiliary tools cannot be used simultaneously in Interactive Digital Board mode and PC mode.
- Unlike in the Interactive Digital Board, system tools and app toolbox do not appear in the toolbar in PC mode.

Using in Class

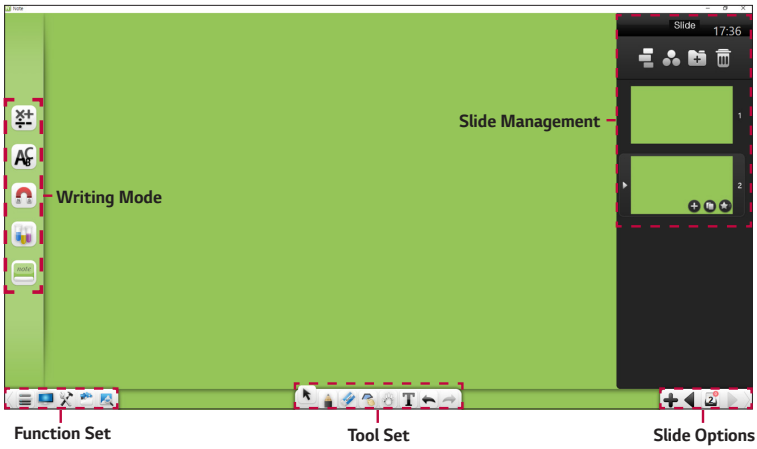
The built-in PC (OPS) comes pre-installed with Note 3 writing program which is similar to the Note app on the Interactive Digital Board.

Try writing on the PC just like you would on the Interactive Digital Board by running the Note 3 program.

Note

- This program is only provided with the built-in PC (OPS) purchased through LG Electronics.
- To see features of Note 3 in detail, select **[Menu]** → **[Tip]** → **[Manual]** from the Note 3 function set.

Run the **[Note 3]** app from the desktop in PC mode. The following default writing screen will appear.



Function Set

Check out the default icons displayed in all of Note 3's writing modes.

Icon	Description
	You can create new files or load existing ones to write on, save, and print them.
	The screen switches to the PC desktop, and you can use auxiliary tools for writing.
	You can use graphic materials built into Note 3.
	You can load data saved on your computer.
	You can search for necessary materials in the internet window.

Tool Set

You can utilise necessary tools for your classes.

Icon	Description
	You can move objects individually or in groups.
	You can write or draw by hand.
	You can erase handwriting, drawings, and objects.
	You can use 3D shapes.
	You can view the entire writing screen.
	You can write using the virtual keyboard.
	You can return to state before or after the modification of the current screen.

Slide Options

You can add/delete slides or move to other slides.

Icon	Description
	You can add slides.
	The slide management window pops up, allowing you to see the slides you are using at a glance, add, or delete slides. The number of slides is displayed numerically in the icon image.
	You can move to the previous/next slide.

Utilising the Right Subject Tools for Your Classes

Depending on the lecture subject, you can change the writing mode and utilise tools specialised for each mode in your classes.

Press on the Note 3 app screen. Tools specialised for each subject are displayed.

Note

- Pressing during a class will display all tools, regardless of subject mode.

Math Subject Mode

English Subject Mode

Physics Subject Mode

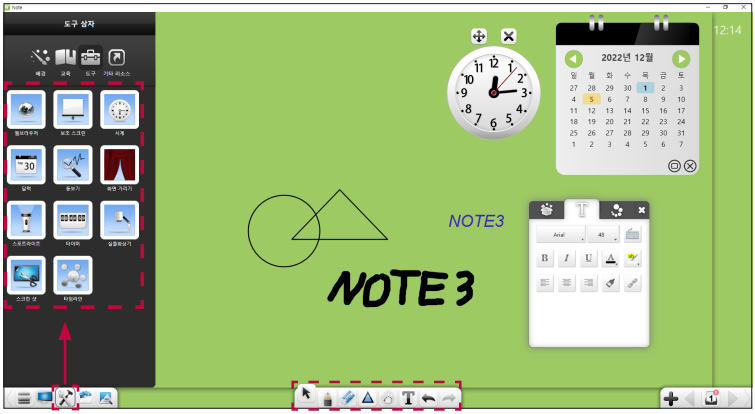
Chemistry Subject Mode

General Subject Mode

General Subject Mode

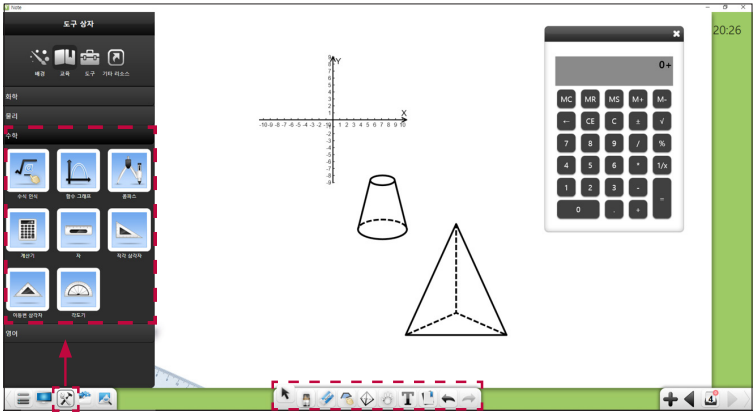
Select on the writing mode toolbar to display tools that can be widely used in various subject classes.

Experiment with tools necessary for classes, such as pen, eraser, screen cover, or auxiliary screen.



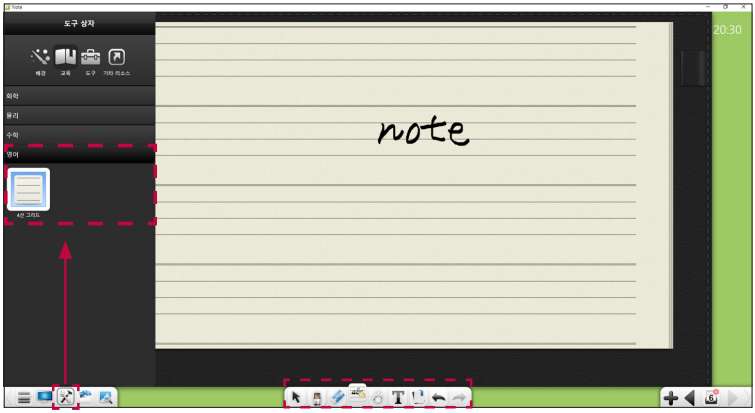
Math Subject Mode

Select on the writing mode toolbar to display tools that can be used in math classes. Experiment with necessary tools such as function graphs, calculators, protractors.



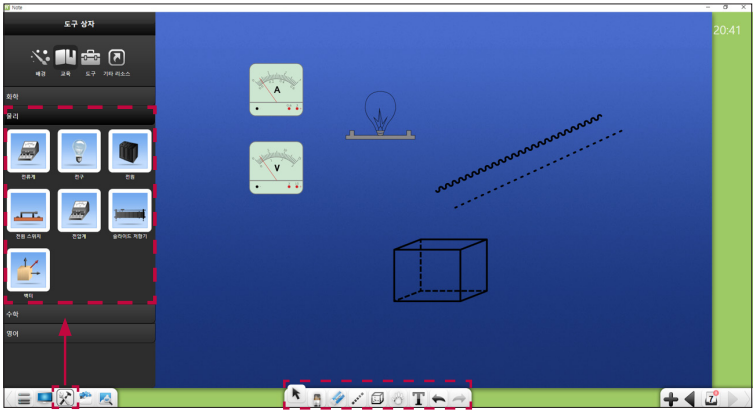
English Subject Mode

Select on the writing mode toolbar to display tools that can be used in English classes. Experiment with necessary tools such as 4-line grid and lecture templates.



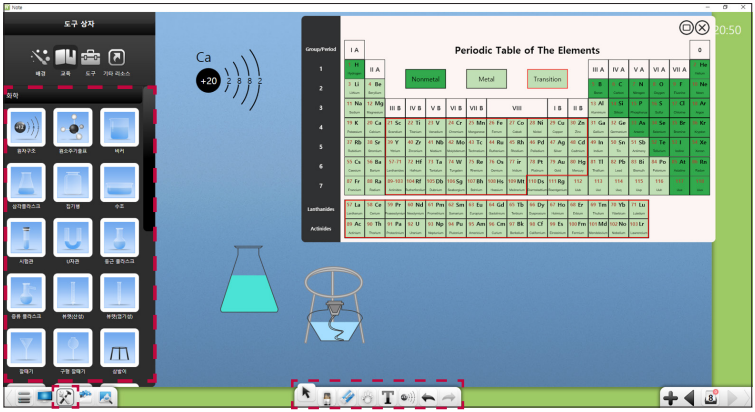
Physics Subject Mode

Select on the writing mode toolbar to display tools that can be used in physics classes. Experiment with necessary tools such as ammeters, voltmeters, and bulbs.



Chemistry Subject Mode

Select on the writing mode toolbar to display tools that can be used in chemistry classes. Experiment with necessary tools such as the periodic table of elements, alcohol lamps, and flasks.



Annotating on Built-in PC (OPS) Contents

You can use the auxiliary tool function of the Interactive Digital Board through the Note 3 program in the built-in PC (OPS) as well.

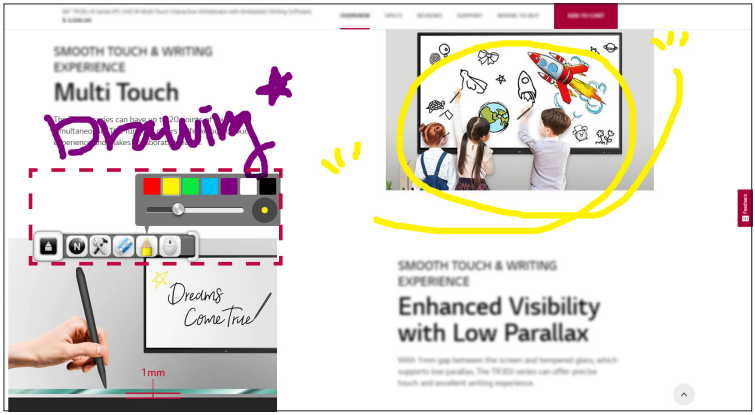
Select  from the function set box on the Note 3 writing screen. The screen switches to the desktop of the built-in PC (OPS), and the auxiliary tool toolbar is displayed on the bottom left.



Icon	Description
	Expands or folds the auxiliary tool toolbar.
	Exits the auxiliary tool toolbar mode and returns to the Note 3 app.
	Displays tools that can be utilised in classes, such as auxiliary screen, timer, real image, spotlight, screenshot, and magnifier.
	Erases handwriting or annotations.
	Annotates on the desktop or running contents of the built-in PC (OPS).
	Runs the mouse mode.

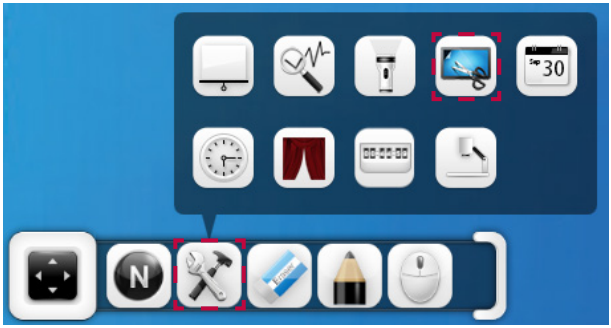
Annotating on PC Desktop or Materials

Select from the Note 3 auxiliary tool toolbar, then annotate. Press twice to specify the colour and thickness of the pen.

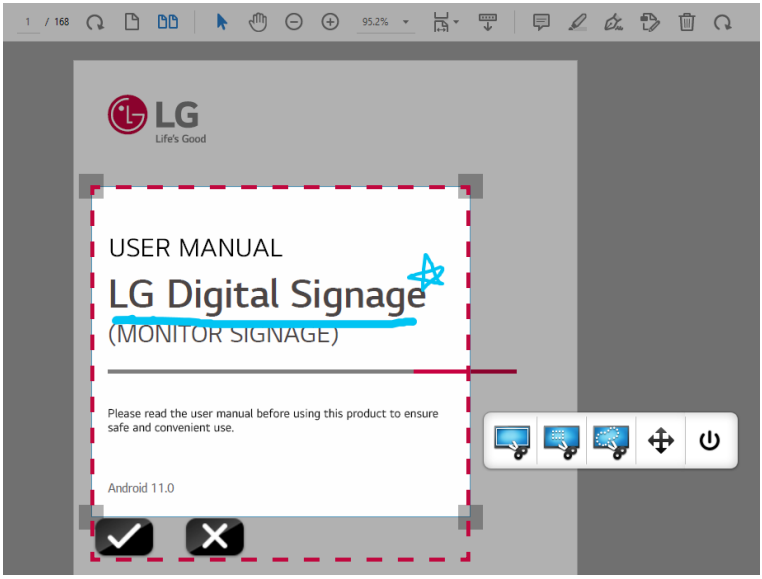


Capturing the Desired Screen and Loading it as a Writing Screen

Select → from the Note 3 auxiliary tool toolbar, then specify the capture area.



- To capture the entire screen, select .
- To capture a specific rectangular area, select .
- To freely capture any area of your choice, select .



The captured image will be inserted and displayed on the Note 3 app screen.



Note

- This manual only covers some aspects of the Note 3. For a detailed explanation of the Note 3 features, go to the Note 3 function set, and select **[Menu]** → **[Tip]** → **[Manual]**.

Creating a Smart Class with [LG CreateBoard Share]

Share a variety of class contents with students to simultaneously increase class participation and academic achievement.

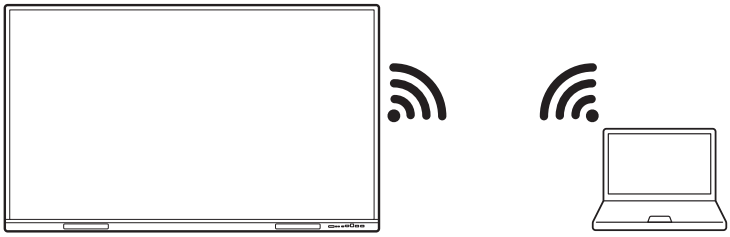
Wireless Screen Sharing

During classes or meetings, you can share the screen of your mobile devices (such as a smartphone or tablet), or a Windows PC, Mac PC, or Chrome OS screen wirelessly, without the need for any cables. Check the device you own from the table below and choose the appropriate connection method.

Note

- To use this feature, the Interactive Digital Board, external PC, and mobile device must all be connected to the same Wi-Fi.
- Wireless connections that are not through an app can only display up to one screen.
- Depending on the version of the app, the displayed menus, features, and text may vary.
- To maintain a stable network environment, if the Miracast option remains turned on but unused for more than 7 days, a Miracast option on/off popup will be displayed.
- For a smooth and stable connection, it is recommended to use the dedicated video app **[LG CreateBoard Share]** when sharing a screen wirelessly for a long period. For detailed instructions on how to share a screen wirelessly through the app, please refer to the following.

▶ Sharing Screens Using [LG CreateBoard Share] App



Devices that Can Be Connected	Wireless Screen Sharing Methods	App Installation Required
Android Phone / Windows PC	Miracast Connection	X
Chrome OS / YouTube	Chromecast Connection	X
macOS PC / iPhone	Airplay Connection	X
macOS PC / Windows PC	WEB Link Connection	X
Windows PC / macOS PC / Android Phone / iPhone	LG CreateBoard Share App	O

Sharing Your iPhone Screen Wirelessly

You can share your iPhone screen wirelessly using the Airplay feature without any additional apps.

1 Ensure that your Interactive Digital Board and iPhone are connected to the same Wi-Fi.
2 Run the → **[LG CreateBoard Share]** app from the toolbar.
3 Select **[Menu]** → **[Settings]**.
4 Turn on the **[Support Airplay device]** switch.
5 Press in the iPhone settings centre. Attempt to connect to the Interactive Digital Board.

Sharing Your Android Phone Screen Wirelessly

You can share your Android phone screen wirelessly using either Miracast or Chromecast feature without any additional apps.

1 Ensure that your Interactive Digital Board and Android phone are connected to the same Wi-Fi.
2 Run the → **[LG CreateBoard Share]** app from the toolbar.
3 Select **[Menu]** → **[Settings]**.
4 Turn on the **[Support Chromecast device]** and **[Support Miracast device]** switches.
5 Open the notification window on your Android phone, and find and click **[SmartView]** or **[Wireless display]**. When the list of devices that can be connected is displayed, click on the name of the Interactive Digital Board to connect.

Sharing Online Contents Screen

You can share pictures or video contents that are uploaded online or to the cloud on the Interactive Digital Board screen. This explanation uses a YouTube app video as an example.

1 Ensure that your Interactive Digital Board and Windows PC or mobile device are connected to the same Wi-Fi.
2 Run the → **[LG CreateBoard Share]** app from the toolbar.
3 Select **[Menu]** → **[Settings]**.
4 Turn on the **[Support Chromecast device]** and **[Support Miracast device]** switches.
5 Play a video in the YouTube app on your smartphone or Windows PC.
6 Click on of the video information you want to share.
7 Select the name of the Interactive Digital Board in the transmission target.

Sharing Web Browser Screen

You can use this feature when you want to share your web browser screen while using Mac PC, Windows PC, or Chrome OS.

Note

- This method only works in a PC environment and does not work on mobile devices such as Android phones or iPhones.
- Both the Interactive Digital Board and PC must be connected to the same Wi-Fi.

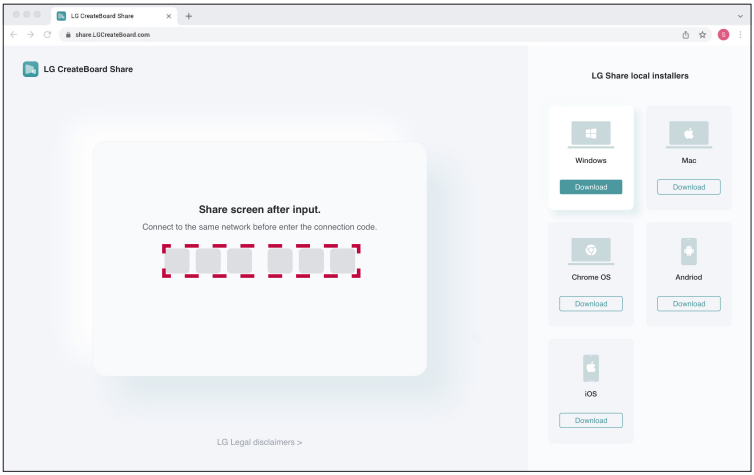
1 Check if your Interactive Digital Board and external PC are connected to the same Wi-Fi.

2 Run the → **[LG CreateBoard Share]** app from the toolbar.

3 Turn on the **[Webcast]** switch.

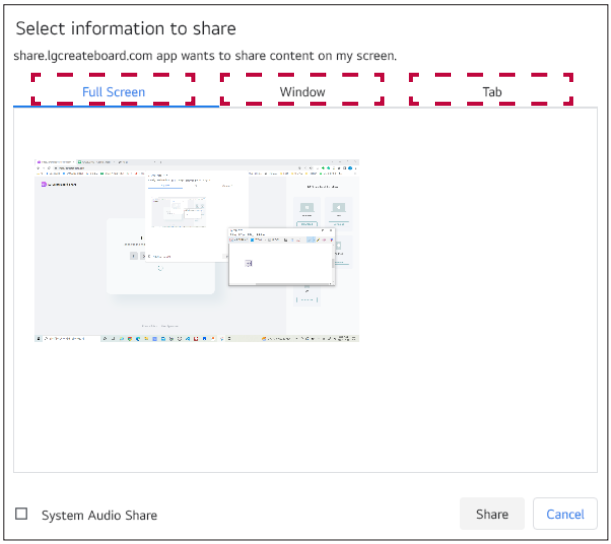
4 Enter the following address in your internet browser. http://share.lgcreateboard.com

5 Enter the connection code displayed on the Interactive Digital Board in the code input field of the screen.



6 Select the window you want to share and press **[Share]**.

- **[Full Screen]**: You can check the PC full screen, running apps, and others.
- **[Window]**: Share by selecting a specific window you want to share the screen of. As only the screen of that window is shared, the operations of other apps are not shared.
- **[Tab]**: Share by selecting a specific tab in the browser. As only the screen of that tab is shared, the operations of other tabs are not shared.
- **[System Audio Share]**: Checking this feature allows you to share audio (sound) as well.



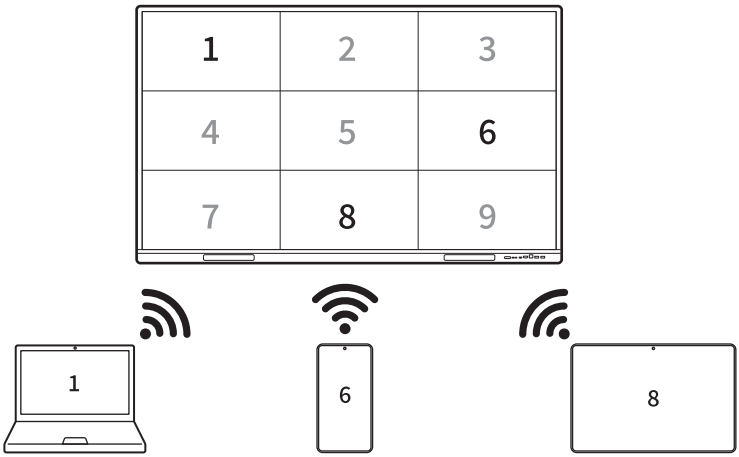
Sharing Screens Using [LG CreateBoard Share] App

Share screens between different devices, such as PCs, smartphones, and tablets, using the **[LG CreateBoard Share]** app. It can be connected with up to 9 other devices, and you can operate the Interactive Digital Board with the connected device.

You can also transfer photos, videos, PDF files, and others from this product to the connected device.

Note

- To use this feature, both the product and the device you want to connect to the product must be on the same network.



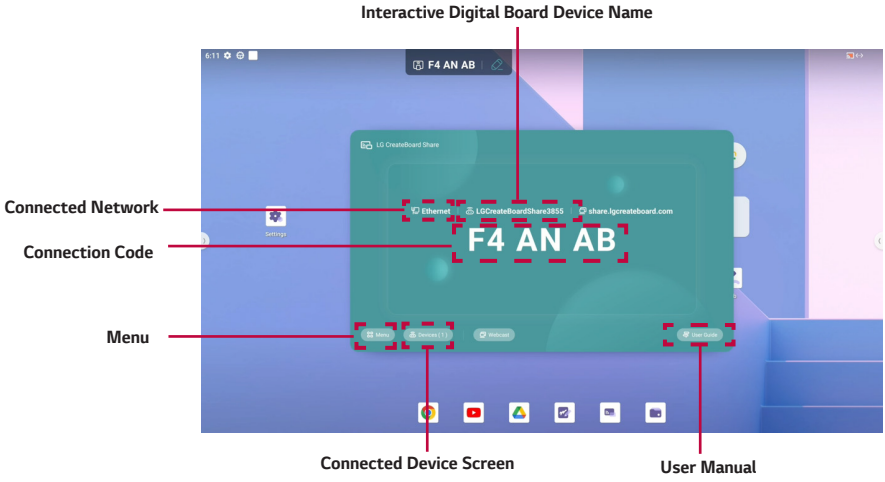
System Requirements

The requirements for each device to install the LG CreateBoard Share app are as follows.

Device	OS Version	CPU	Memory	Remark
Windows PC	Windows 7/10/11	Intel Core i3 3rd Generation or higher Intel Core i5 7th Generation recommended	2 GB or higher 4 GB recommended	Dedicated graphics card required
Android	Android 5.0 or higher Android 10 recommended	-	-	Hardware h264 encoder required
iOS	iOS 10 or higher	-	-	iPhone 6 or higher
macOS PC	macOS 10, 11	-	-	-
Chromebook Chrome Web Store App	Chrome 38 or higher	-	-	For Chrome 89, the latest version 1.0.8.126 is required
Chromebook Chrome Play Store App	No restrictions	-	-	-

Launching the App

Run the → **[LG CreateBoard Share]** app from the toolbar.



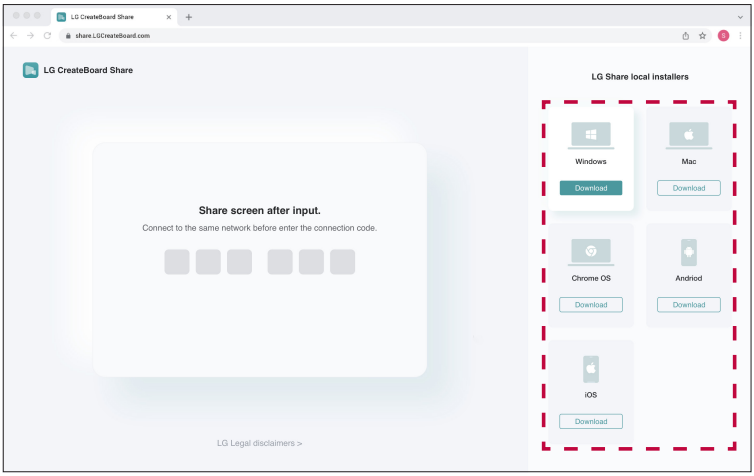
Downloading the App

To connect your product and device through the app, you need to install the video sharing app.

- Mobile devices: Search for the **[LG CreateBoard Share]** app in the App Store or Google Store and install it.
- PC: Search for the LG CreateBoard Share app in the Microsoft Store, Mac App Store, or Chrome Web Store, then download and install the app.

Note

- If you cannot find the app in your product's app store, visit https://share.lgcreateboard.com/ to download the product-specific app.

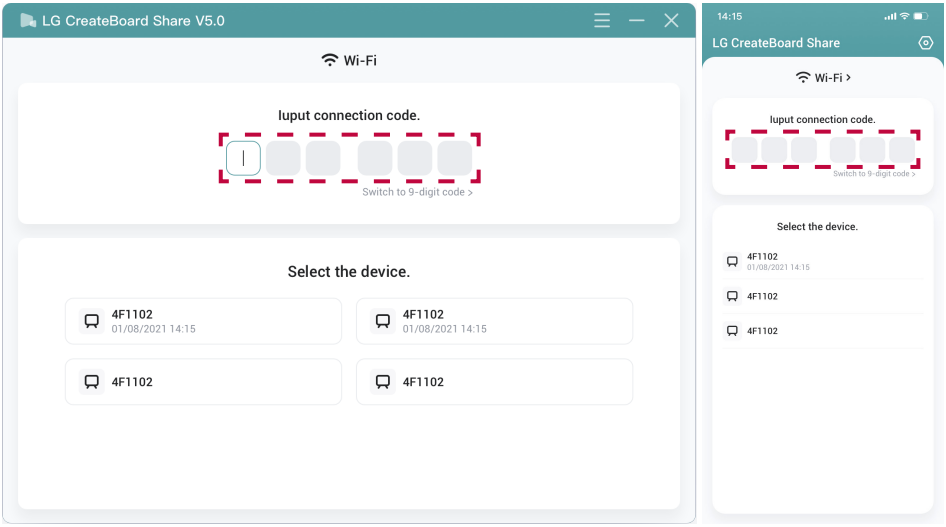


Connecting a Device to the Product

1 Make sure that the device you want to connect is on the same network as the product.

2 Run the **[LG CreateBoard Share]** app on the device you want to connect.

3 Enter the 6-digit connection code displayed at the top of the Interactive Digital Board screen (example: DM6 4RU) on your device screen.



<Windows PC Screen>

<Mobile Device Screen>

Note

- The connection code is displayed at the top of the screen even if the **[LG CreateBoard Share]** app is not running.
- You can connect up to 9 different devices.
- When the device is connected to the product, the number of connected devices displayed on the **[LG CreateBoard Share]** app screen changes.
- To change the name of the connected device displayed on the electronic screen, click **[Settings]** → **[About phone]** → **[Device name]** and enter the desired name.

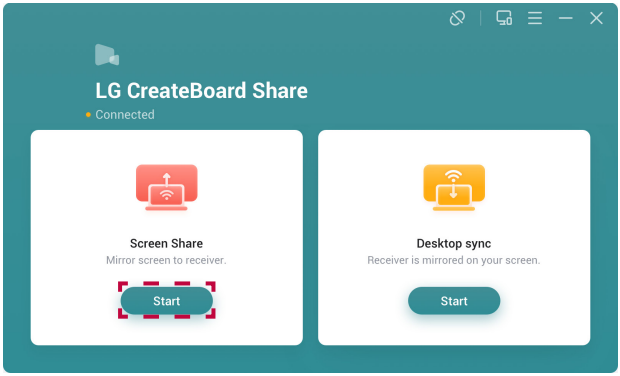
Sharing a Connected Device's Screen (Mirroring)

You can display the screen of a device connected to the product on the Interactive Digital Board.

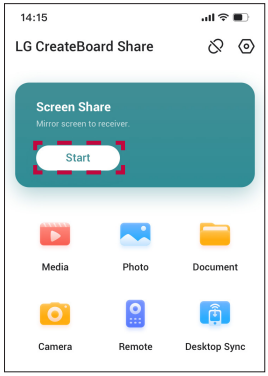
Mirroring

1 Launch the **[LG CreateBoard Share]** app and connect your device to the product.

2 Press **[Screen Share]** → **[Start]** in the app of the connected device.

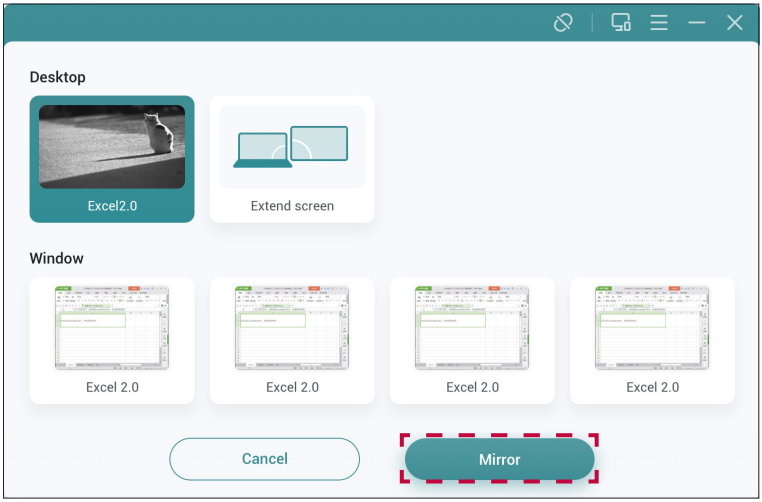


<Windows PC Screen>



<Mobile Device Screen>

3 Choose the screen you want to share and press **[Mirror]**.

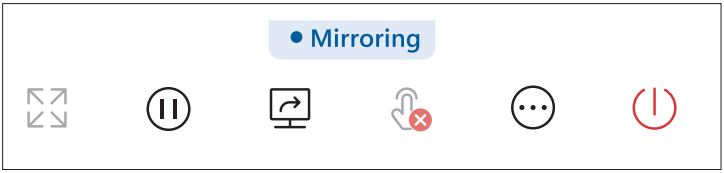


Note

- If a PC is connected to the product, you can share either the default desktop screen or the extended desktop screen. On the default desktop screen, you can only share content from one running program.

Displaying Mirrored Screen Control Options

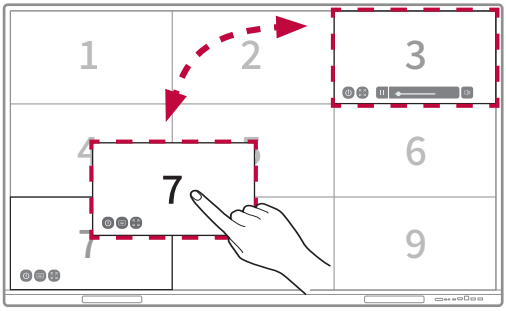
Press • Mirroring on a mirrored device to display screen sharing options.



Icon	Description
	Displays in full screen.
	Pauses screen sharing.
	Changes the screen you are sharing.
	Enables or disables touch control on the shared screen from the Interactive Digital Board.
	Adjusts the clarity and screen ratio of the shared screen.
	Ends screen sharing.

Viewing Mirrored Screens

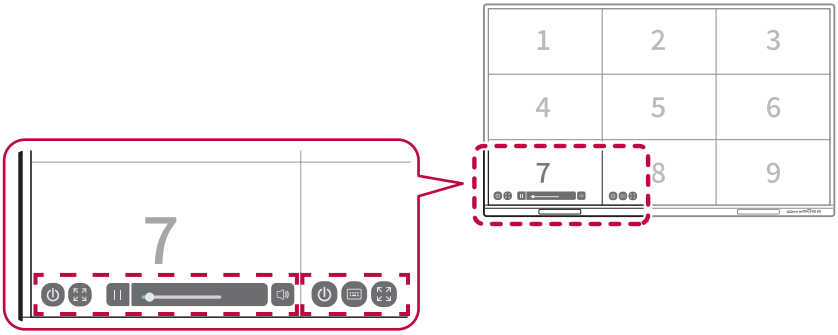
You can mirror up to 9 different devices. When the mirrored screen appears, you can drag each screen with your hand to change their positions.



Creating a Smart Class with [LG CreateBoard Share]

When you select each mirrored screen on the Interactive Digital Board screen, mirroring options are displayed at the bottom of the screen.

The displayed options may vary depending on the file.



Icon	Description
	Disconnects mirroring.
	Displays in full screen.
	Displays the screen in a pop-up window.
	Returns the pop-up window to a split screen.
	Adjusts the volume of the screen.
	Displays a virtual keyboard to type.
/	Controls media on the mirrored screen.
/	Enlarges or reduces pictures on the mirrored screen.
	Rotates pictures on the mirrored screen.

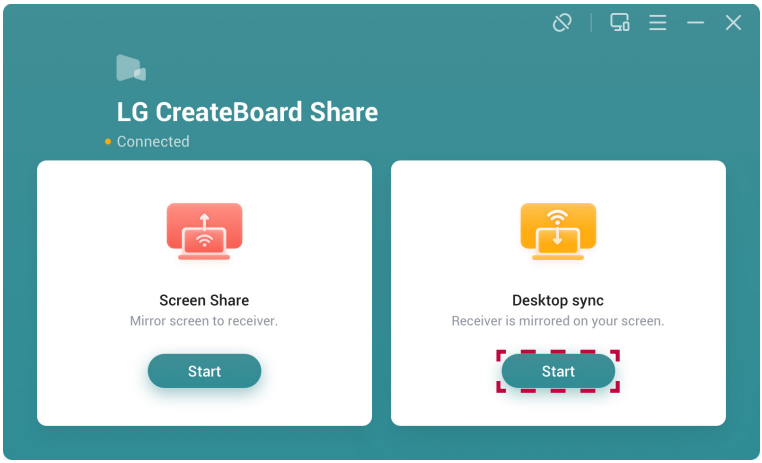
Displaying the Interactive Digital Board Screen on a Connected Device

In contrast to mirroring, you can display the Interactive Digital Board screen on a connected device.

Synchronising the Interactive Digital Board with a Device

1 Connect your product and device using the **[LG CreateBoard Share]** app.

2 Press **[Desktop Sync]** → **[Start]** in the app of the connected device. The Interactive Digital Board screen will appear on the connected device.



Controlling the Interactive Digital Board with a Connected Device

During classes or meetings, you can control the Interactive Digital Board screen from the connected device while the Interactive Digital Board and mobile devices or PC are connected. You need to set permissions to control the product.

1 Press **[Devices]** on the **[LG CreateBoard Share]** app screen. A list of connected devices will appear.

Note

- An alternative method is pressing the connection code at the top of the Interactive Digital Board, followed by **[View the main interface]**.

2 From the screen of the connected device, press the **[Desktop sync]** device's then press **[Authorise]**.



3 When the icon changes to → , you can control the Interactive Digital Board from the device.

Note

- You can only control the product when it is synchronised, not when it is mirroring.

Annotating on the Interactive Digital Board

When the Interactive Digital Board is synchronised to the connected device, will appear next to the connection code at the top of the Interactive Digital Board.

Pressing allows you to annotate simply.



Option	Description
[Pen]	Makes an annotation. Touch the pen to change its colour.
[Eraser]	Erases part of the annotation.
[CLEAN]	Erases all annotations.
[SAVE]	Saves the annotation and annotated screen to internal storage.
[INSERT]	Inserts the annotation into the Note app. The Note app launches automatically.
[SHARE]	Shares the annotation with another connected device.

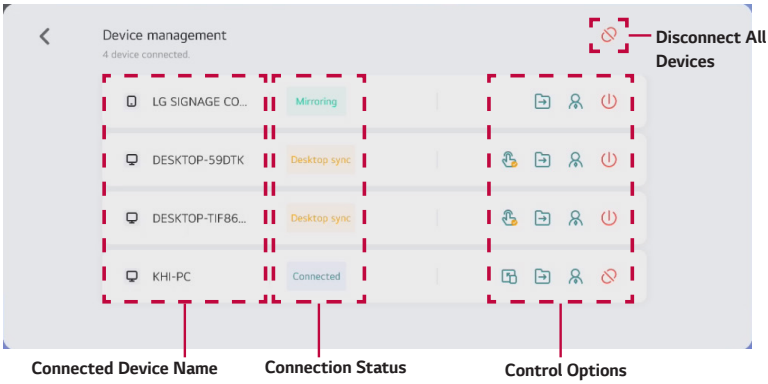
Managing Connected Devices

You can check and individually control all devices connected to the Interactive Digital Board.

Press **[Devices]** on the **[LG CreateBoard Share]** app screen. A list of connected devices will appear.

Understanding the Device Management Page

The Device Management page displays the names of devices currently connected to the product, their connection status, and individual control options.



Checking the Device Connection Status

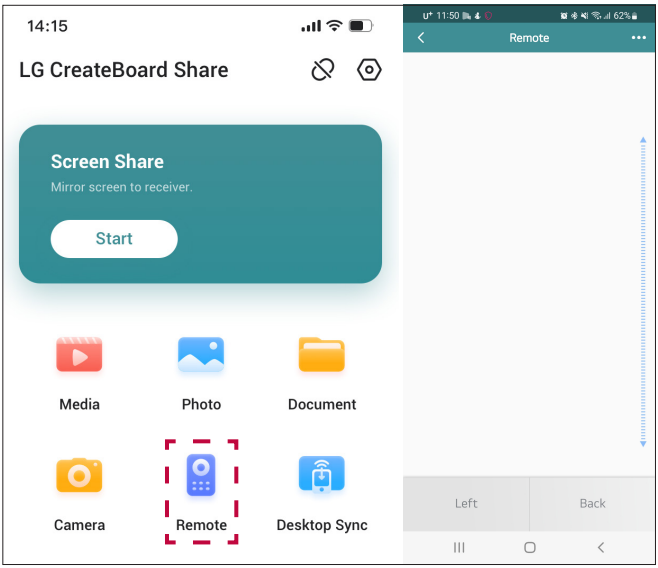
Status	Description
Desktop sync	The device and the Interactive Digital Board are synchronised. The Interactive Digital Board screen is displayed on the connected device.
Mirroring	The device and Interactive Digital Board are mirrored. The screen of the connected device is displayed on the Interactive Digital Board.
Connected	The device is connected to the Interactive Digital Board.

Understanding the Control Options

- To mirror the connected device on the Interactive Digital Board, press .
- To control the Interactive Digital Board screen with a synchronised device, press then → **[Authorise]**.
- To transfer files to the connected device, press , then select the file to be sent.
- To accept or reject a file transfer request, you need to set one of the connected devices as an administrator. Press on the device you want to set as administrator. To move administrator privileges to another device, press on that device.
- To end mirroring or synchronisation only while maintaining the connection, press .
- To disconnect a specific device, press in the options for the connected device.
- To disconnect all connected devices, press at the top of the management page.

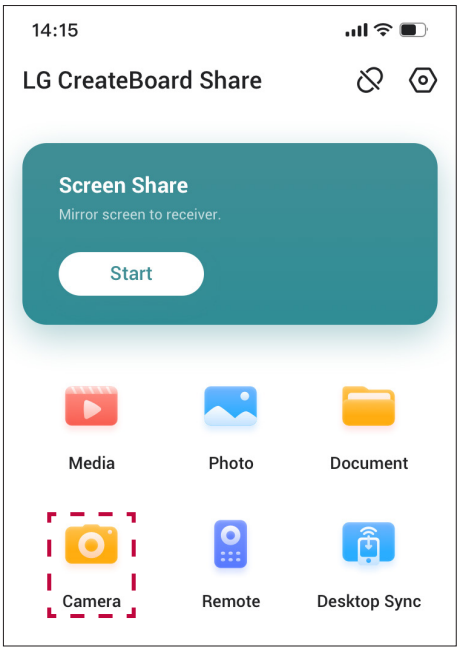
Using the Connected Device as a Remote Control

From a connected device, you can use a mobile device (smartphone, tablet) as a touchpad or mouse to control the synchronised screen. From a connected mobile device, click **[Remote]**.



Using the Connected Device as a Remote Camera

When synchronised with a mobile device (smartphone, tablet), you can use the Interactive Digital Board as a large display. From the connected mobile device, click **[Camera]**.



[LG CreateBoard Lab] Another writing solution

Provides the **[Note]** app and another writing solution. Additional functions will be provided through future app updates.

Note

- Refer to the separate **[LG CreateBoard Lab]** app manual.

[AirClass] A Reliable Teaching Assistant

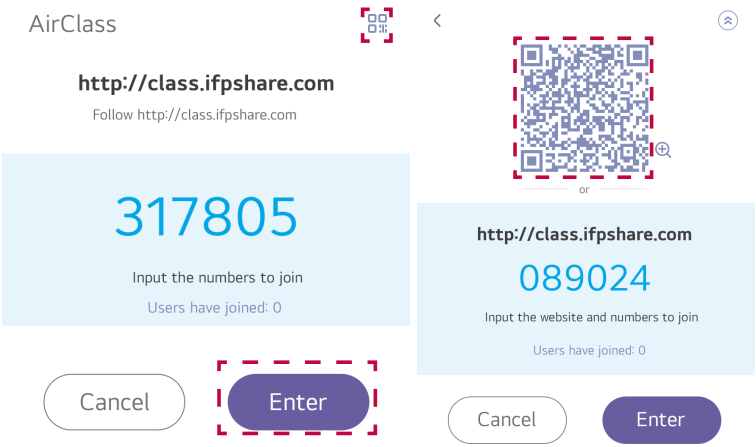
Multiple mobile devices connected to the same network can access the AirClass app simultaneously to make a class where students actively participate. Up to 30 devices can access simultaneously.

Joining the Class

You can join a class by scanning a QR code or entering the corresponding URL and code number in the browser without the need to download a separate app on your mobile phone.

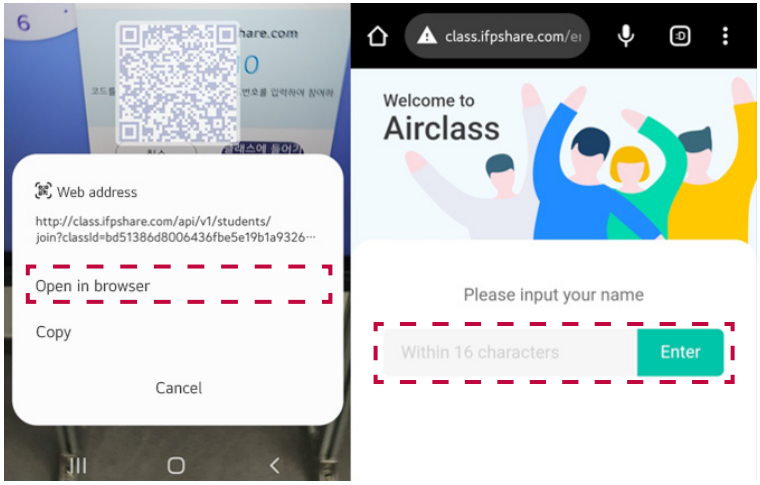
1 Run the → **[AirClass]** app from the toolbar.

The class is automatically created and a URL and QR code for the class are generated.



2 Access the website displayed on the screen with your smartphone, then enter the code number. Alternatively, press to display a QR code to scan.

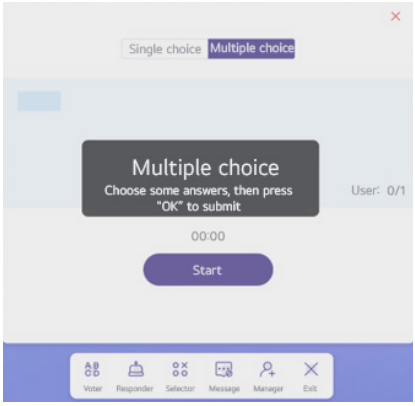
3 Select **[Enter]** on the Interactive Digital Board, and smartphone users can enter their names to be used in the class to join the class from their own devices.



Asking Questions and Submitting Answers

Teachers can ask a question, and all participating students can submit their answers via their mobile phones. These results can be viewed on the Interactive Digital Board screen. Use this feature for activities such as gathering student opinions or guessing the answers to quizzes.

1 The teacher asks a question or proposes a topic.
2 Select **[Voter]** in the **[AirClass]** app. A voting screen will appear.
3 Set the answer selection method. Both **[Single choice]** / **[Multiple choice]** are possible.
4 Press **[Start]**. Voting will begin.

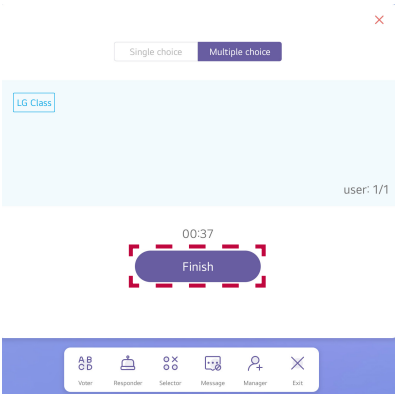


5 When voting begins, students select one or multiple answers on their smartphone screens and press the **[OK]** button.



Note

- Depending on the voting method set by the teacher, the selection will be fixed to single/multiple choice.
- Until voting ends, you can continue to revise and resubmit your answers. Only the last submitted answer will be reflected.
- Once all participants have finished voting, press **[Finish]**. The voting will be completed.
- The names of the students who have completed the voting are displayed on the screen for easy tracking of voting progress.



Viewing Statistics

Once the voting is complete, an **[Answers statistics]** pop-up window appears.

- Selecting the correct answer on the screen will automatically calculate the percentage of correct answers based on student responses.
- Selecting the bar graph will display the names of the students who voted for that answer.



Encouraging Responses

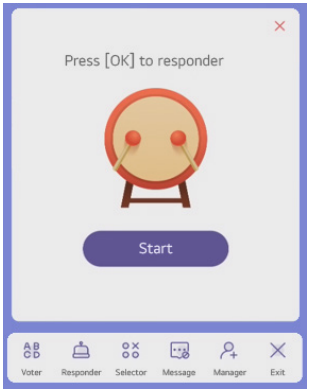
You can encourage quick student responses with fun sound effects.

1 Select **[Responder]** in the AirClass app. A screen for encouraging responses will appear.

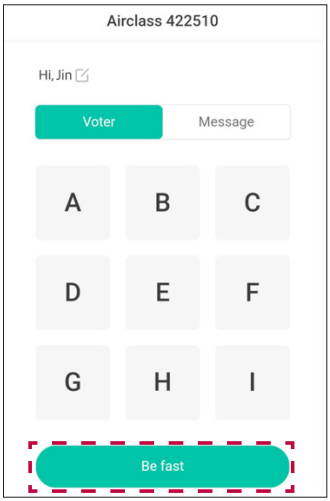
2 Press **[Start]**. A 'booming' sound will be heard and connect with the students' mobile phones.

Note

- The button at the bottom of the students' phone screens will change from **[OK]** to **[Be fast]**.



3 Students select one or multiple answers on their mobile phone screens and then press **[Be fast]**.



Note

- The fastest student to submit their answer will see “Submitted Successfully” while the others will see “Submission Failed” on their mobile phones.
- The name of the student who answered most quickly will be displayed. Press **[Reset]** to use the response function again.

Drawing Lots

This function randomly selects one or more participants. It can be used to draw from the entire class or to group a few individuals into smaller teams.

Note

- This can be started only if there is more than one participant.

1 Select **[Selector]** in the AirClass app. A screen for conducting a random draw appears.
2 Press **–** or **+** to designate the number of students.
3 Check the names of the selected students. Press **[Reset]** to draw lots again.

Displaying a Message on the Board Screen

You can display messages written from connected devices on the Interactive Digital Board in real time. Use this feature for activities such as students publicly displaying their opinions or submitting subjective answers.

1 Select **[Message]** in the **[AirClass]** app.

Note

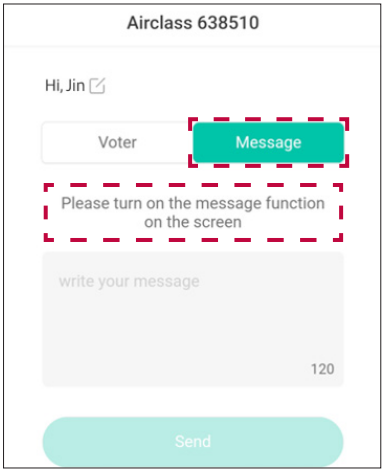
- This feature is turned off by default. Each time you tap the icon, it will toggle between On and Off. You can only use this feature when the message status is turned on.

Status	Icon	Status Message:
Off		“Please turn on the message function on the screen.”
On		“Send a message to the screen.”

2 Press the **[Message]** tab on the connected device. The active tab changes from **[Voter]** to **[Message]**.

3 Enter a message to be displayed on the Interactive Digital Board from the connected device.

You can write up to 120 characters and use built-in default emoticons on the device.



4 Press **[Send]**. The message is posted on the screen in real time.

Note

- Posted messages flow from right to left, disappearing at the end of the screen.
- If several people post messages, the messages are displayed simultaneously in different colours.



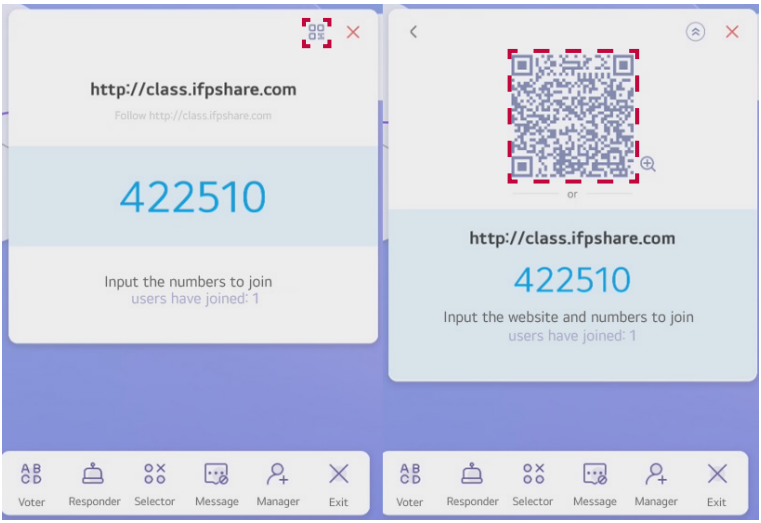
Joining During a Class

You can also add new students during a class.

1 Select **[Manager]** in the **[AirClass]** app.

The same screen will appear as when you first run the **[AirClass]** app.

2 Get the student joining during the class to scan the QR code on their mobile devices, or enter http://class.ifpshare.com in the browser followed by the code number.



3 Enter the name to be used in the class, and press **<Enter>** to join the class.

Ending the Class

End the class and disconnect from all users.

Select **[Exit]** in the **[AirClass]** app. All users participating via mobile will be disconnected.

Note

- The QR code and URL of the ended class cannot be reused. Run the **[AirClass]** app again and enter the newly created class.

Conducting Video Classes/Meetings

You can conduct video meetings using video conferencing solutions such as Zoom, Microsoft Teams, or Google Meet on the Interactive Digital Board.

Because you cannot install video conferencing apps directly onto the Interactive Digital Board, you can conduct video classes/meetings in the following way.

Note

- The following assumes that you are already a member of a video conferencing solution. If you want to use the solution, you must sign up on each video conferencing solution's webpage and set up an account.

Joining Video Classes/Meetings with Built-in PC (OPS)

If you have purchased a built-in PC (OPS), you can download and install the Windows PC version of each video conferencing solution on the built-in PC (OPS).

1. Press in the top right of the Interactive Digital Board screen to select **[General]** → **[PC]** to switch to the built-in PC (OPS).
2. Launch the web browser and go to the official webpage of the video conferencing solution you want to use.
3. Download and install the appropriate program for your PC.
4. Log in to the video conferencing solution and create or join a class or meeting.
5. Conduct the class or meeting.

Note

- The Interactive Digital Board and built-in PC (OPS) do not provide a camera; therefore, your face will not be displayed on the screen if you conduct the meeting with the Interactive Digital Board. If necessary, pre-set the video through the settings of your video conference solution.

Joining Video Classes/Meetings from the Interactive Digital Board

If you have not purchased a built-in PC (OPS), you can participate in video classes or meetings by installing a video conference solution on an external PC.

Connecting an External PC to the Interactive Digital Board using a Cable

1 Use a USB Type-C cable or HDMI cable to connect an external PC to the Interactive Digital Board.
2 Press in the top right of the Interactive Digital Board screen to select **[General]** → **[PC]** to switch to the built-in PC (OPS).
3 Log in to the video conference solution on the external PC and create or join a class or meeting.
4 Conduct the class or meeting.

Connecting the External PC to the Interactive Digital Board using Wireless Screen Sharing

You can share the video class or meeting conducted on your external PC to the Interactive Digital Board wirelessly on screen.

Note

- To use this feature, both the Interactive Digital Board and the external PC must be on the same network.
- This feature is for sharing video classes or meeting footage on the Interactive Digital Board; therefore, you cannot participate in the meeting by operating the Interactive Digital Board. To participate in the meeting, use the external PC connected to the Interactive Digital Board.
- We recommend connecting the Interactive Digital Board and external PC via the **[LG CreateBoard Share]** app for a stable wireless connection. Refer to the following for detailed instructions on screen sharing through the app.

▶ Wireless Screen Sharing, Sharing Screens Using [LG CreateBoard Share] App

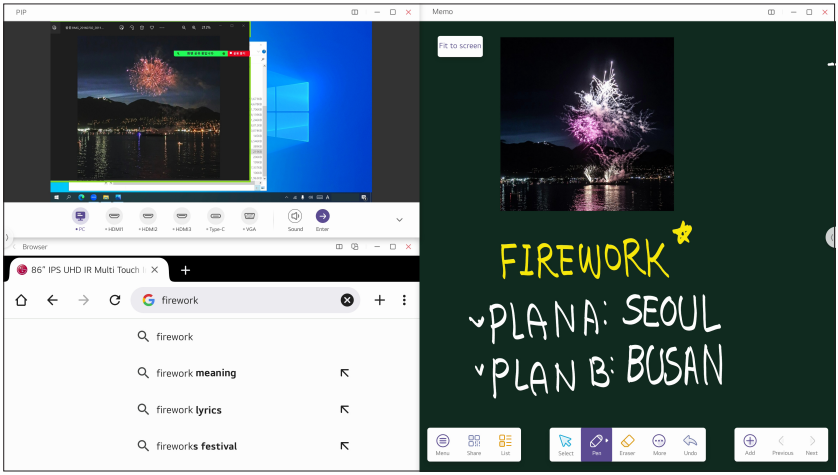
1 Install and run the video conference solution on the external PC.
2 Create or join a class or meeting.
3 Run the **[LG CreateBoard Share]** app on the external PC.
4 Enter the 6-digit connection code from the Interactive Digital Board screen to connect to the Interactive Digital Board.
5 In the **[LG CreateBoard Share]** app on the external PC, press **[Start]** under **[Screen Share]**.
6 Select the app to share the screen and press **[Mirror]**.

Using the Interactive Digital Board while Participating in a Class or Meeting

You can use the Interactive Digital Board simultaneously while using a video conference solution through the PIP app or multi-window feature.

Note

- The following assumes that you have installed a video conference solution on the built-in PC (OPS) and completed the signup and account setup.



1 Press in the top right of the Interactive Digital Board screen to select **[General]** → **[PC]** to switch to the built-in PC (OPS).

2 Log in to the video conference solution on the built-in PC (OPS) and create or join a class or meeting.

3 Run the desired app on the Interactive Digital Board.

4 While the app is running, run the → **[PIP]** app from the toolbar. This will allow you to utilise the features of the Interactive Digital Board while participating in a class or meeting.

Note

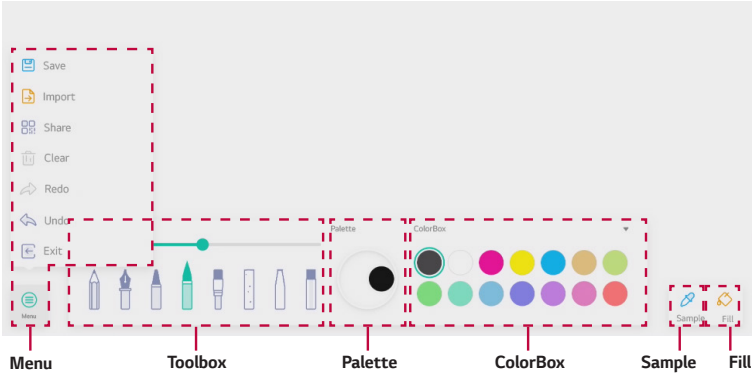
- You can touch-control the screen running in the **[PIP]** app as well.
- Running the **[PIP]** app automatically displays at 1/4 the size of the Interactive Digital Board screen. Press in the PIP screen to change the PIP position or adjust its size.

Using the App

[Palette] Mixing and Extracting Colours

The Interactive Digital Board can be used as a large canvas for drawing. You can sketch with your desired pen, then mix multiple colours on top to create the necessary shade for colouring.

Run the → **[Palette]** app from the toolbar.



Note

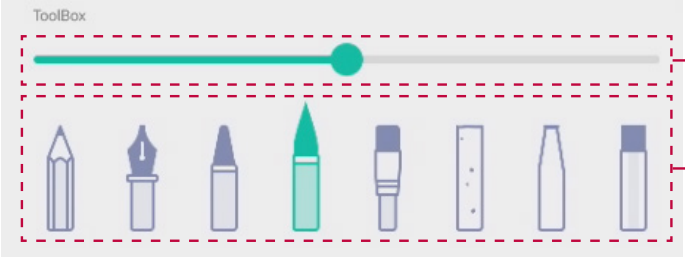
- You can insert your drawings from the **[Palette]** app into the **[Note]** app for use.

Understanding Menu

You can choose from the following options.

Option	Description
[Save]	You can save your drawing on the Palette as an image file.
[Import]	You can import an image to embellish.
[Share]	You can share via QR code.
[Clear]	You can erase all drawings on the Palette at once.
[Redo]	You can return from the previous state.
[Undo]	You can return to the previous state.
[Exit]	You can exit the Palette app.

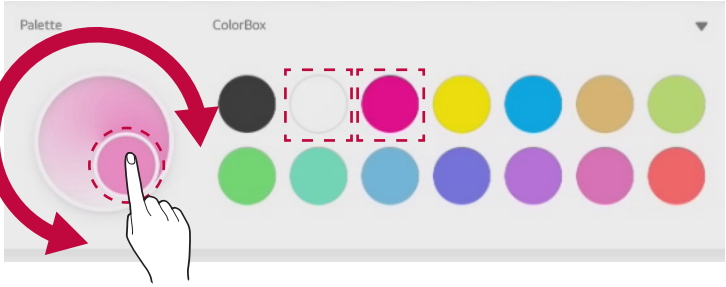
Toolbox



Pen Type		Examples	Pen Type		Examples
	Pencil			Paintbrush	
	Fountain Pen			Chalk	
	Marker			Airbrush	
	Brush Pen			Eraser	

[Palette] / [ColorBox]

You can rub and mix two or more colours on the **[Palette]** after selecting desired colours from the **[ColorBox]**.



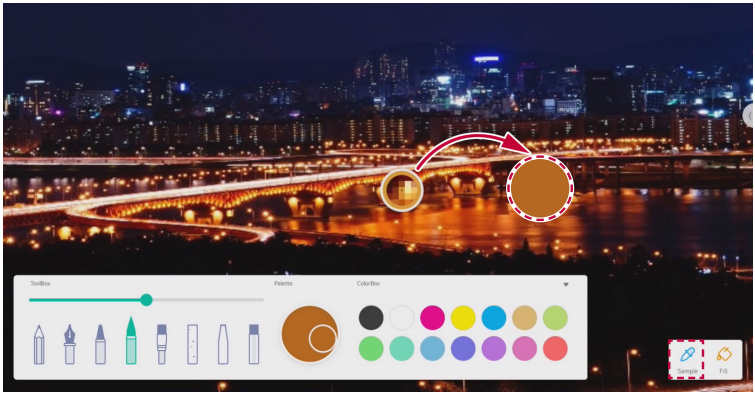
Sample

If the colour you want is not in the ColorBox, you can extract it from a source with the desired colour.

1 Load an image from **[Menu]** → **[Import]**.

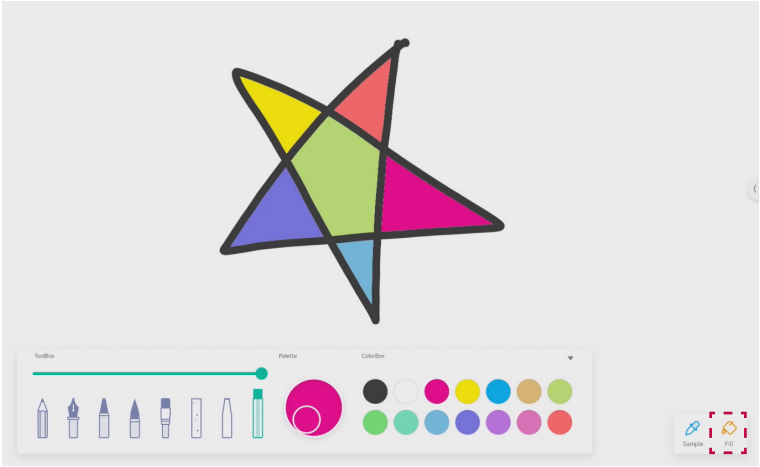
2 Click on the sample, then on the colour you want. The colour will be extracted and displayed.

You can use the extracted colour as a pen colour.



[Fill]

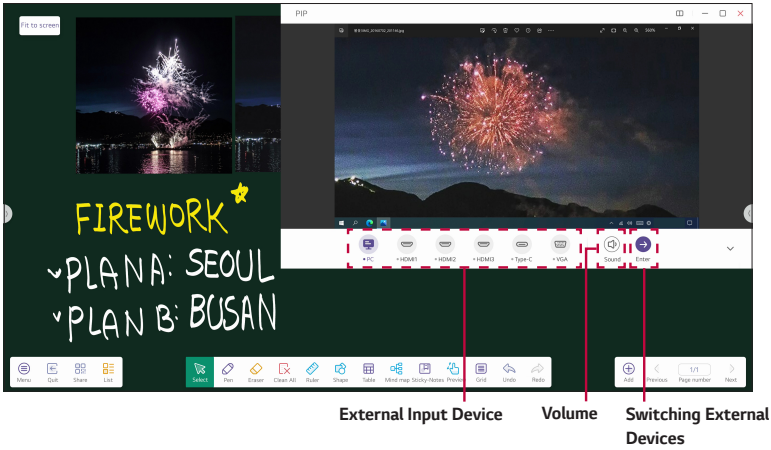
With **[Fill]**, you can fill areas enclosed by lines with a selected colour.



[PIP] Linking with External Input Devices

You can run another app or annotate on the Interactive Digital Board screen while viewing the screen of a different external input device.

Run the → **[PIP]** app from the toolbar.



Option	Description
	You can change the location of the screen displaying the external input device.
External Input Device	You can display a list of external input devices.
[Sound]	You can adjust the volume of the external input device.
[Enter]	You can view the external input device in full screen.
∧ / ∨	You can hide or display PIP options.

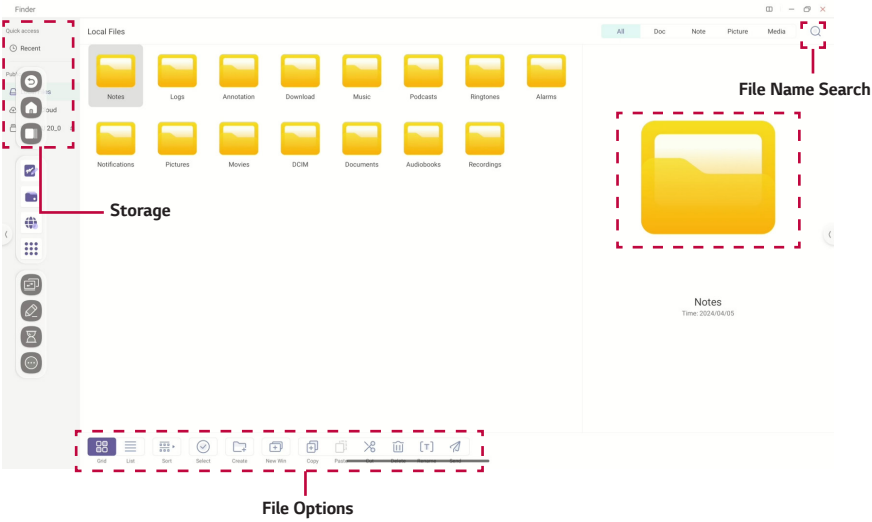
Note

- Screen quality may deteriorate depending on the resolution conditions of the external input signal.

[Finder] Browsing Files

You can check all folders and files saved in the internal storage of the Interactive Digital Board or in external storage (USB, cloud drive), including documents, videos, pictures, or audios.

Run the → **[Finder]** app from the toolbar.



Viewing File

Double-click the folder containing the file you want to check.

- To move to a higher-level folder, select the desired folder name from the folder path at the top of the screen.
- To go to the root folder, press the name of the storage the folder belongs to.
- You can search for a file name by typing the name in the search box and pressing .

Selecting **[Files]** in a folder enables you to use the following options.

Option	Description
[Grid]	You can display folders and files as icon images.
[List]	You can display folders and files in list format.
[Sort]	You can specify the criteria for listing the order of folders and files.
[Select]	You can select individual files or all files at once.
[Create]	You can create a new folder.
[New Win]	You can create a new Finder window.
[Copy]	You can copy selected folders or files.
[Paste]	You can paste copied folders or files into another folder.
[Crop]	You can cut selected folders or files and paste them into another folder.
[Delete]	You can delete selected folders or files.
[Rename]	You can rename selected folders or files.
[Send]	You can add selected folders or files to the shortcut area on the main screen.

Adding Files to the Shortcut Area

You can add folders or files to the shortcut area on the main screen.

Select the folder or file you want to add to the shortcut area with the **[Finder]** app running, then press **[Send]** → **[Shortcut]**.

The selected file will be added to the shortcut area on the main screen.

Note

- You can add shortcuts by dragging and dropping files or folders to the main screen without displaying file options. For more details, please refer to the following.

  ▶ Adding File or Folder Shortcuts

[Cloud Drive]

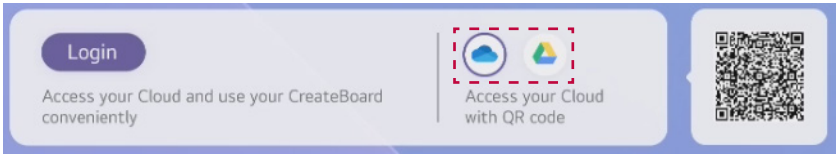
You can save and back up files created on the Interactive Digital Board to your cloud drive. It will be synchronised once you log in with the cloud drive account you are using.

Note

- This product supports Google Drive and Microsoft OneDrive.
- Once you log into a cloud drive on the product, you will stay logged in until you manually log out.

Logging into Cloud Drive

You have two options for logging in. Choose the method that best suits you to log in easily.



Method 1: Logging in from the Cloud Drive Widget

1. Press **[Login]** from the cloud drive widget on the main screen.
2. Select the cloud drive you wish to log in to.
3. Enter your ID and password.

Method 2: Logging in from a Mobile Device

1. Press (Microsoft OneDrive) or (Google Drive) on the cloud drive widget on the main screen to display the QR code.
2. Scan the QR code with your mobile device.
3. Log in to your account.

Note

- You need to sign up to the respective cloud service in advance to use the cloud drive. Visit Google Drive and Microsoft OneDrive web pages to sign up for their services.
- Once logged in, press **[Set as default]** from the respective account if you wish to use one account as the default.

Adding a Cloud Drive Account

You can add and use multiple cloud drive accounts.

1 Press the cloud drive widget while logged in to the cloud drive.
2 Press **[Add Account]** in the pop-up window.
3 Select the cloud drive you wish to use, then log in.

Saving Documents to the Cloud Drive

Documents or notes being created on the Interactive Digital Board can be saved to the cloud drive.

1 While creating a file, select **[Save]** or **[Save as]** → **[Cloud Drive]**.
2 Select the cloud drive account and specify location where you wish to save.
3 Press **[OK]**. The file will be saved in your cloud drive.

Moving Documents from Finder to Cloud Drive

You can copy and move data stored in the internal storage to the cloud drive. Conversely, you can copy and move data from the cloud drive to the internal storage.

1 Run the  → **[Finder]** app from the toolbar.
2 Navigate to the folder containing the files or data you wish to move.
3 In the folder, press **[Select]** to select the files to move.
4 Press **[Copy]** and then navigate to your cloud drive account.
5 Navigate to the desired folder, and select **[Paste]** in that folder.

Logging out of Cloud Drive Account

You can log out of the cloud drive account linked with the Interactive Digital Board.

Select **[Logout]** or **[Erase Data]** from the cloud drive widget on the main screen.

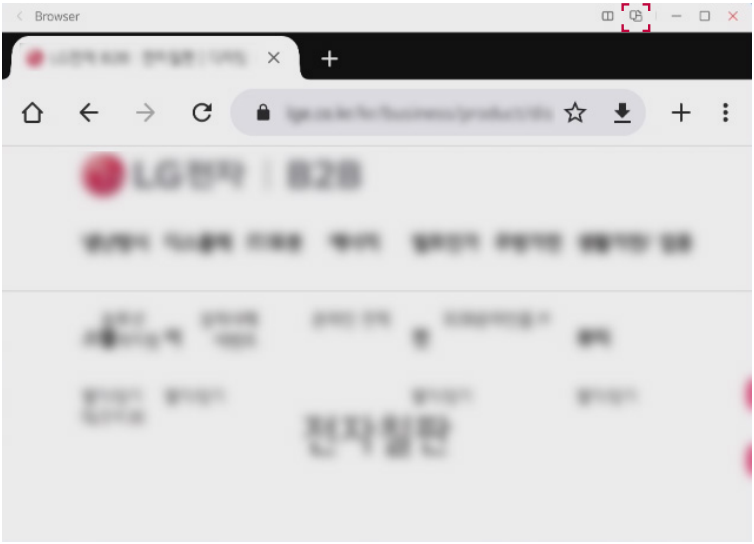
Note

- To use the cloud drive again after logging out, you must log in again.

[Browser] Using the Web Browser

You can conveniently use the internet without having to connect to other external devices while using the Interactive Digital Board.

Run the → **[Browser]** app from the toolbar.



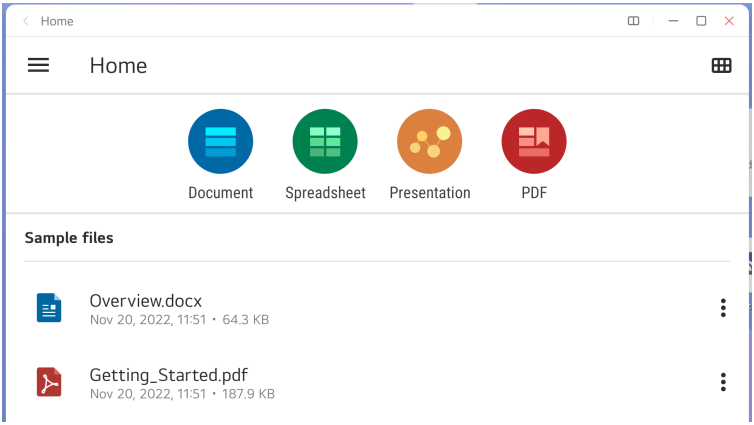
Note

- You can change the aspect ratio by pressing at the top of the **[Browser]** window.

[OfficeSuite] Using the Document Editor & Viewer Program

You can view and edit documents without purchasing additional programs related to documents such as PDF or Microsoft Office.

Run the → **[OfficeSuite]** app from the toolbar.



[Keeper] Optimising Memory

You can optimise storage by deleting unnecessary files and emptying the trash.

After running the → **[Keeper]** app from the toolbar, press **[One Key Optimize]**.

Controlling Multiple Products at Once

LG ConnectedCare DMS

LG ConnectedCare is an integrated control software capable of managing and controlling network-based LG SIGNAGE monitors. By registering the currently used Interactive Digital Board, you can check and manage the status of the product via the LG ConnectedCare DMS server.

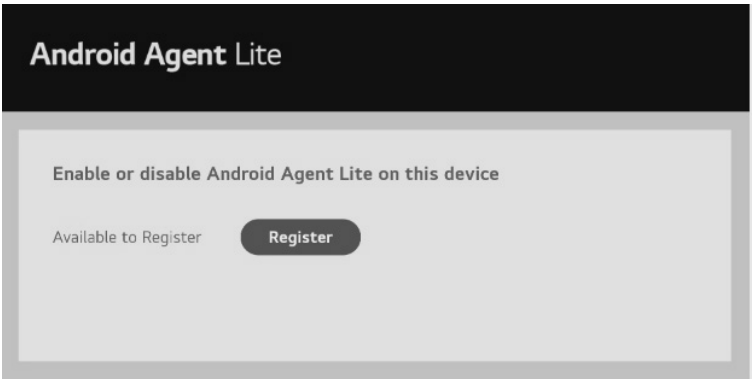
Note

- LG ConnectedCare DMS is a separately sold solution. If you want to purchase it, please contact LG Electronics.
- This manual briefly explains the functions of LG ConnectedCare DMS. For a detailed function description, please refer to the LG ConnectedCare DMS user manual.
- To use LG ConnectedCare DMS, you need to obtain a registration number in advance.
- For information on how to obtain a registration number, please contact LG Electronics.
- Products registered as Agents automatically connect to the LG ConnectedCare DMS server, periodically collecting the product status and transmitting it to the server.

Registering as an Agent

To manage the Interactive Digital Board by registering it to the LG ConnectedCare DMS, you first need to register the Interactive Digital Board as an LG ConnectedCare Agent.

1 Run the → **[LG ConnectedCare DMS]** app from the toolbar.

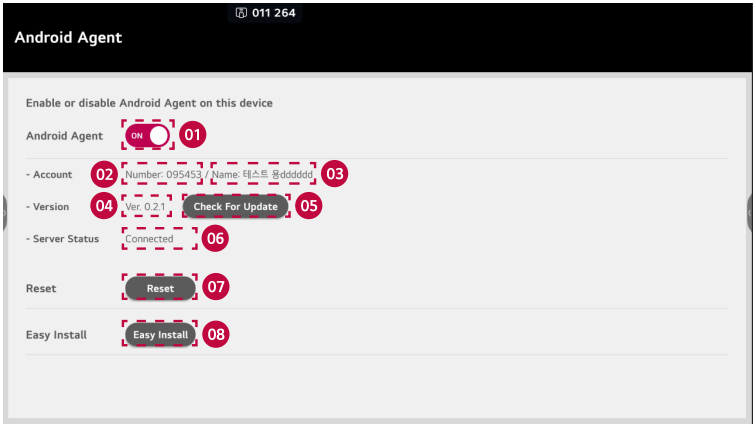


2 Press **[Register]**.

3 Enter the registration number and press **[OK]**.

4 If your account and business name are displayed correctly, press **[Confirm]**. The Interactive Digital Board is registered as an Agent.

Viewing Registration Screen



No.	Description
01	You can connect to or disconnect from the DMS server.
02	Displays your account number.
03	Displays your business name.
04	Displays version information.
05	Checks for the latest version and proceeds with the update.
06	Shows the current connection status. The connection status is one of the following three. • Waiting for Approval • Connected • Not Connected
07	Deletes all registered items and resets.
08	Checks if the Interactive Digital Board on the same network is registered with DMS. If not registered, a registration command is sent to the device. Products that receive the registration command are automatically registered with the server under the same account.

Managing Multiple Products

If you own multiple products, you can group the Interactive Digital Boards and manage them by group. To manage the Interactive Digital Board by group, you need to sign up and log in at the address below. The access address varies by region.

- Asia Pacific: https://ap.dms.lgconnectedcare.com
- Europe: https://eu.dms.lgconnectedcare.com
- America: https://am.dms.lgconnectedcare.com

Creating Groups

If you own multiple products, you can manage them by grouping them.

1 Access the LG ConnectedCare DMS webpage and log in.
2 On the main screen, press **[Device management]**.
3 Press the business name containing your devices, then press **[Modify Group]**.
4 Press **[Add]**.
5 After entering the group name, press **[Done]** to create the group.

Note

- To change the group name, click ✎ next to the group name. To delete a group, press 🗑 next to the group name.

Adding Devices to a Group

1 Access the LG ConnectedCare DMS webpage and log in.
2 On the main screen, press **[Device management]**.
3 Press the business name containing your devices to display all devices.
4 After selecting the devices to be grouped, click **[Move to Group]**.
5 From the group name list, select the group where the selected devices will belong.
6 Press **[Done]** to add the device.

Managing Schedules

By creating systematic and planned schedules, you can efficiently manage or use multiple devices. Functions that can be controlled in bulk through the schedule feature are as follows.

Device Control	System Control	Media Control
Screen On/Off	Volume Adjustment	Image Playback
External Input Device	Brightness Adjustment	Video Playback
Touch Lock	Send Message	Audio Playback
IR Lock [1)]	File Transfer	
USB Lock [2)]	App Installation	
Screen Lock [3)]		

[1)] **IR Lock**: Locks the infrared sensor of the selected device so it does not respond to remote control input.

[2)] **USB Lock**: Locks the USB input of the selected device so it does not respond when a USB device is connected.

[3)] **Screen Lock**: Locks the screen touch function of the selected device so it does not respond to screen touch.

Registering a Schedule

1. Access the LG ConnectedCare DMS webpage and log in.
2. On the main screen, press **[Schedule]**. All registered devices are displayed.
3. Press **[Register]**.
4. In the schedule registration screen, specify the schedule title, repeating schedule, day, time, and the performing group.
5. After selecting the action to be performed on the specified day, press **[Save]**. The schedule is registered.

Editing a Schedule

- To modify a registered schedule, select the corresponding schedule, then select in the edit item.
- To delete a registered schedule, select the corresponding schedule, then press **[Delete]**.

Managing Apps

You can view the list of apps uploaded in the File Box and install or delete apps on multiple registered devices at once.

Note

- The File Box is where you can store apps or media files such as images and videos you want in advance. You can upload or download materials to the File Box as needed.

Uploading an App to the File Box

1 Access the LG ConnectedCare DMS webpage and log in.
2 Press in the navigation bar of the main screen. The File Box will be displayed.
3 Press the app.
4 Press **[Upload]**, select the app you want, and then press **[Open]**. The app will be uploaded.

Installing an App

You can install apps uploaded to the File Box on all devices within a group in bulk.

1 Access the LG ConnectedCare DMS webpage and log in.
2 On the main screen, press **[Application management]**. A list of uploaded apps will be displayed.
3 Check the name of the app you want and select **[Install]**.
4 Select the group and specific devices where the app will be installed, then press **[Install]**. The app will be installed.

Deleting an App

You can delete apps installed on devices within a group in bulk.

1 Access the LG ConnectedCare DMS webpage and log in.
2 On the main screen, press **[Application management]**. A list of uploaded apps will be displayed.
3 Check the name of the app you want and select **[Delete]**.
4 Select the group and devices where the app you want to delete is installed, then press **[Delete]**. The app will be deleted.

Managing Your Device

Cloning Data Automatically

Instead of repeating settings for each device, you can duplicate device settings and apply them in bulk to multiple devices.

1 Access the LG ConnectedCare DMS webpage and log in.
2 On the main screen, press **[Device management]**. A list of registered devices will appear.
3 Select the desired group, then press **[Operation Settings]**.
4 In the operation settings menu, select **[Data Auto Cloning]**.
5 Press **[Upload the file]** to select and upload the data to be cloned. The uploaded data will be cloned and reflected when the device is next powered on.

Note

- You can upload one cloned settings data file per group to the server. If you upload additionally, the most recently uploaded file will be designated.
- To check the details of devices belonging to a group, click **[Results]**.

Broadcast

You can transmit images, videos, audios, messages, and live streaming addresses to the selected devices. You must upload media files such as video and audio to the File Box in advance.

1 Access the LG ConnectedCare DMS webpage and log in.
2 On the main screen, press **[Device management]**. A list of registered devices will appear.
3 Select the device you want to broadcast from the full list of devices.
4 Press **[Broadcast]**.
5 Choose the category of data to be sent and then select the file to be broadcasted.

Note

- For some media, you may need to set playback options.
- If broadcasting live, you must enter the live channel address.

6 Press **[OK]** to finish. The broadcast will start.

Sending Notification Messages

In case of emergencies, you can remotely notify the emergency status and send a message. Notifications will be sent to all devices in the group.

1 Access the LG ConnectedCare DMS webpage and log in.

2 Click [!] on the navigation bar on the main screen.

3 From the notification messages screen, select the account administrator and group, then choose the message to be sent. If you need to modify the message to be sent, select it from the list of messages, press **[Modify]** to modify the content and save it.

4 Press **[Send]**. Notifications will be sent to all devices in each group.

Settings

You can configure or change settings used on the Interactive Digital Board, such as network connection, personal information, apps, date and time.

Run the → **[Settings]** app from the toolbar.

Wireless and Network

Wi-Fi

You can connect to a Wi-Fi network, or check and manage settings.

Ethernet

You can access the wired network by connecting a LAN cable to the wired LAN port of the Interactive Digital Board. You can also manually configure a fixed IP or proxy.

Hotspot

You can set the Interactive Digital Board as a hotspot to share data with other devices. Additionally, you can manually set and apply hotspot configurations.

Bluetooth

You can connect to devices supporting Bluetooth or adjust settings.

VPN

You can add a VPN connection or manage VPN configurations and status.

Share Network

You can configure the sharing of network through USB TYPE-C cable.

Custom

Wallpaper

You can change the wallpaper of the Interactive Digital Board. You can select and set one of the provided images or your preferred wallpaper as the background.

LG CreateBoard Widget

The clock widget and cloud drive widget can be added or hidden on the Home screen.

RS232C Control Code Selection

You can enable the protocols using a network or RS232C cable.

Sound

Sound

You can change the Media volume, Alarm volume, Notification volume.

Sound Output Settings

You can change the device that outputs the sound.

Apps

You can check all the apps installed on the product. You can check usage information by app, change settings, or delete or stop unused apps. You can also restore the default settings for each app.

- Google apps follow Google policies.

Administrator

Enable Administrator

You can enable to admin.

Change administrator password

You can set the admin password.

Multi-Window Mode

You can set the app to be viewed in split-screen, not full screen. You can split one screen into a maximum of 4 parts to run 4 apps simultaneously.

Hide Side Toolbar

You can hide (minimize) the side toolbar by selecting the desired time option.

Pixel Shift

You can shift pixels according to your desired settings.

Startup and Shutdown

You can control and manage power consumption when using the product.

Option	Description
[Startup Channel]	When the product boots up, it can start in the input mode set by the user.
[Standby After Startup(Black Screen)]	The product switches to power-saving mode after booting. Although the power is on, the screen is turned off.
[Fast power on]	You can use the remote power-on function along with the rapid boot feature. (However, enabling this feature puts the system into a power standby mode, increasing power consumption when turned off. For energy conservation, this option is not recommended.)
[Auto Power off]	Automatically powers off if there is no input or touch motion for 4 hours or more.
[No Signal Power Off]	If there is no input or touch operation for the time set by the user with an external input connected, the power will automatically turn off.
[Screen-OPS Power Sync]	The built-in PC (OPS) is turned off or into sleep mode, Digital Board automatically turns off.
[DPM (Display Power Management)]	When there is no input or touch operation for the time set by the user with an external input connected, the power will automatically turn off. However, the power will turn back on automatically when an external input is detected.
[Sleep Timer]	Automatically powers off according to the time set by the user.
[Power Off Reminder]	When the power turns off according to the schedule set by the user, a pop-up message will appear so that the user is aware of it.

Storage

You can check the storage space of the internal storage and portable storage devices connected to the product, such as a USB. You can also check the memory area of the entire system.

Factory Reset

This action will restore the product to its initial state and delete all user data. The total memory usage, including the memory usage of the apps installed initially on the internal storage, is displayed.

Security & Privacy

You can check and control the security status of the product.

Option	Description
[Trusted Credentials]	You can view all trusted systems and user certificates. You can control the activation status of these certificates and see the details of each certificate.
[User Certificate]	
[Auto Remove Files]	Automatically delete local files that exceed the storage period when the device is turned off.
[Clear all login data when Power off]	Deletes personal cloud data and browser data when the product is shut down.
[Clear all login data with schedule time]	If there is no activity for the set period of time, it deletes the cloud data and browser data.

Embedded OS

This function allows you to set whether to use the Embedded OS. If this function is turned off, you can connect and use external input only without using the Embedded OS.

Note

- **[Settings]** → **[Administrator]** → **[Embedded OS]**.

Apps from unknown sources

Allow installation of apps from unknown sources.

System

Date and Time

You can set how the date and time appearing on the screen are displayed. If you manually set the network time zone, you can specify the date, time, date display format, and time zone.

Language and Input

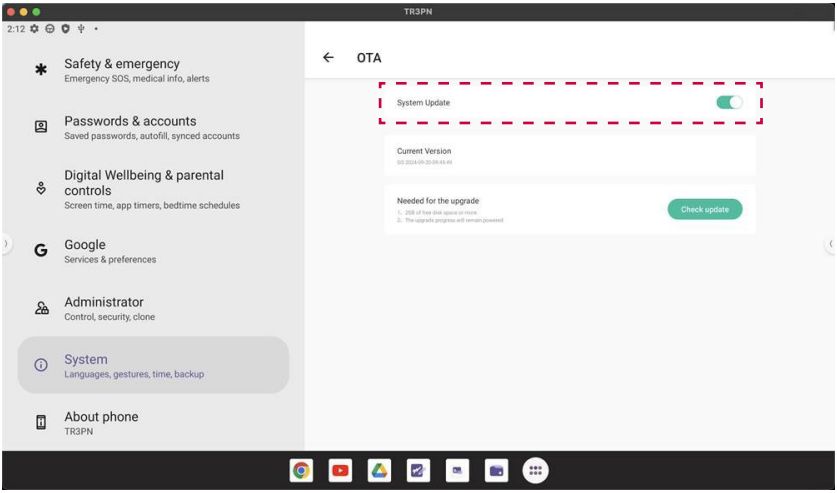
You can change the language displayed on the product and the virtual keyboard settings. The virtual keyboard allows you to enter Android default, Google Pinyin, Taiwanese, and Korean. Activate the language you want to use.

System navigation

Option	Description
[Gesture navigation]	To go Home, swipe up from the bottom of the screen. To switch apps, swipe up from the bottom, hold, then release. To go back, swipe from either the left or right edge.
[3-button navigation]	Go back, Home, and switch apps with buttons at the bottom of your screen.
[Traditional navigation]	Go back, Home and switch apps with buttons at the left/right floating toolbar of your screen.

OTA

You can enable/disable System Update via OTA. (Default : Enable)



Information

You can check the version information of the product, including legal information and Android version.

LG CreateBoard Software Network Requirement Guide

Thank you for selecting LG and the LG CreateBoard Interactive Display. To optimize your experience with the software features, please review the following network configuration requirements for setting up your environment. To ensure smooth operation, we suggest adding these addresses to your network's whitelist.

Activation Servers

- https://linkmsg.bytello.com
- https://license.bytello.com
- https://linkmsg.seewo.com/seewo-link/api/v1/register

OTA (Over-The-Air) Servers

- https://ota.ifpserver.com (IP: 20.106.104.54,20.113.10.179)
- https://usa-cstore-pri.ifpserver.com
- TCP PORT: 80,443

LG CreateBoard Share

- https://share.LGCreateBoard.com
- https://share-server.bytello.com
- mc-awsgp.bytello.com (based in the U.S)
- TCP 2067, 7385, 29736, 39458 (for using LG CreateBoard client apps)

- AirPlay
  - UDP 5353 (MDNS & Bonjour)
  - TCP 5000, 7000
  - TCP/UDP 49200 – 49420
- Miracast
  - UDP 21200, 21201 (RTP & RTCP)
  - TCP/UDP 7236
- Chromecast
  - UDP 5353 (MDNS)
  - TCP 8008, 8009, 8010
  - UDP 49400 – 49450 (RTP & RTCP)

LG ConnectedCare DMS

- *.lgconnectedcare.com
- *.signage365care.com
- *.azure-devices.net
- *.lge.com
- *.windows.net
- *.azureedge.com
- TCP/USP 443

Appendix

Media Specifications

Video

File Extension	Codec		
	Video	Audio	Max Bitrate
.3g2	H.263	AAC, AMR_NB	Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
.3gp .avi	H.264		Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.263		Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
	MPEG-4		Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	H.263	MPEG1/2 Layer3, AAC, LPCM	Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
	H.264		Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	MPEG-1		Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	MPEG-2		Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	MPEG-4		Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	MJPEG		Max Resolution: 1920 x 1080 30 Fps, 150 Mbps
.flv	H.263	MPEG1/2 Layer3, AAC	Max Resolution: 1920 x 1088 30 Fps, 5 Mbps
	VP6		Max Resolution: 1920 x 1088 30 Fps, 40 Mbps
	H.264		Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
.f4v	H.264	AAC	Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
.mkv	H.264	AAC, MPEG1/2 Layer3	Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	Vc-1		Max Resolution: 1920 x 1088 30 Fps, 45 Mbps
.mov	H.264	AAC, PCM	Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	MPEG-4		Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	MJPEG		Max Resolution: 1920 x 1080 30 Fps, 150 Mbps
.mp4	H.264	AAC	Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	MPEG-4		Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
.vob	MPEG-2	MPEG1/2 Layer3, PCM	Max Resolution: 1920 x 1088 30 Fps, 80 Mbps

Appendix

File Extension	Codec		
	Video	Audio	Max Bitrate
.mpg .mpeg	H.264	MPEG1/2 Layer3, AAC	Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	MPEG-1		Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	MPEG-2		Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
.ts	H.264	GAAC, MPEG1/2 Layer3	Max Resolution: 3840 x 2160 30 Fps, 160 Mbps
	H.265		Max Resolution: 3840 x 2160 60 Fps, 160 Mbps
	MPEG-2		Max Resolution: 1920 x 1088 30 Fps, 80 Mbps
	MPEG-4		Max Resolution: 1920 x 1088 30 Fps, 50 Mbps
	VC-1 (AP)		Max Resolution: 1920 x 1088 30 Fps, 45 Mbps

Audio			
File	Format	Audio Codec	Supported Range
.aac	AAC	AAC	Sample Rate: 8k~96 kHz Bit Rate: 24K~576 Kbps
.ape	Monkey's Audio	Monkey's Audio	Sample Rate: Up to 48 kHz Bit Rate: Up to 1411 Kbps
.flac	FLAC	FLAC	Sample Rate: Up to 192 kHz Bit Rate: Up to 1411 Kbps
.m4a	ALAC	ALAC	Sample Rate: 8k~96 kHz Bit Rate: 24K~576 Kbps
.mp3	MPEG Audio Layer3	MPEG1/2 Layer3	Sample Rate: 8k~48 kHz Bit Rate: 32K~320 Kbps
.ogg	Vorbis	Vorbis	Sample Rate: 8k~48 kHz Bit Rate: Up to 256 Kbps
.wav	WAV	LPCM	Sample Rate: 8k~192 kHz Bit Rate: Up to 320 Kbps

Photo

File	Format	Supported Range	
.bmp	BMP	Max Resolution: 8000 x 8000 Min Resolution: 4 x 4	Max Resolution: 8000 x 8000 Preview (Default); full screen playback not allowed
.gif	GIF	Max Resolution: 8000 x 8000 Min Resolution: 4 x 4	Max Resolution: 8000 x 8000 Preview (Default); full screen playback not allowed
.jpeg .jpg	JPEG	Max Resolution: 8000 x 8000 Min Resolution: 4 x 4	Progressive support 4000 x 4000 Baseline support: 8000 x 8000
.png	PNG	Max Resolution: 8000 x 8000 Min Resolution: 4 x 4	

Controlling Your Product with Commands

Command Reference List

		Command	Data (Hexadecimal Numbers)
		1	
01	**[Power]**	30	000-003
02	**[Treble]**	31	000-100
03	**[Bass]**	32	000-100
04	**[Balance]**	33	000-100
05	**[Contrast]**	34	000-100
06	**[Brightness]**	35	000-100
07	**[Sharpness]**	36	000-100
08	**[Sound Mode]**	37	000-004
09	**[Volume]**	38	000-100
10	**[Mute]**	39	000-001
11	**[Video Source]**	3A	See Video Source.
12	**[Aspect Ratio]**	3B	000-002
13	**[Language]**	3C	See Language.
14	**[Picture Mode]**	3D	000-003
15	**[Hue]**	3E	000-100
16	**[Backlight]**	3F	000-100
17	**[Colour Temperature]**	40	000-002
18	**[Remote Control]**	41	See Remote Control.
19	**[IR]**	42	000-001

Reception/Transmission Protocol

Transmission

(Start)(Set ID)(Type)(Command)(Data) (Cr)

* (Start): A command to start RS232C control. Starts with 0x3A.
* (Set ID): A command to select the settings. The set ID is fixed to 01(30 31).
* (Type): A command to configure a feature's settings or check the status of a feature. (Settings: 0x53 / Check: 0x47)
* (Command): A command to control the settings.
* (Data): Transmits command data.

Acknowledgement

Set success (Success)

Reply: 34 30 31 2B 0D

Set fail (Fail)

Reply: 34 30 31 2D 0D

* ACK (acknowledgement) is sent in this format, depending on the processing status of the command inputted to the product.
* When the Type value is sent as 0x47 to check the settings value of the function, the value of the Data should be sent as 000(30 30 30).

Appendix

01. [Power] (Command: 30)
Controls the power on/off of the monitor.

Transmission
(3A)(30 31)(Type)(30)(Data)(0D)

Data 000(30 30 30): Backlight off
001(30 30 31): Backlight on
002(30 30 32): Power off
003(30 30 33): Power on

02. [Treble] (Command: 31)
Adjusts treble.

Transmission
(3A)(30 31)(Type)(31)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

03. [Bass] (Command: 32)
Adjusts bass.

Transmission
(3A)(30 31)(Type)(32)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

04. [Balance] (Command: 33)
Adjusts sound balance.

Transmission
(3A)(30 31)(Type)(33)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

05. [Contrast] (Command: 34)
Adjusts screen contrast.

Transmission
(3A)(30 31)(Type)(34)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

06. [Brightness] (Command: 35)
Adjusts screen brightness.

Transmission
(3A)(30 31)(Type)(35)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

07. [Sharpness] (Command: 36)
Adjusts screen sharpness.

Transmission
(3A)(30 31)(Type)(36)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

08. [Sound Mode] (Command: 37)
Select the Sound mode.

Transmission
(3A)(30 31)(Type)(37)(Data)(0D)

Data 000(30 30 30): Video
001(30 30 31): Standard
002(30 30 32): Custom
003(30 30 33): Classroom
004(30 30 34): Meeting

09. [Volume] (Command: 38)
Adjusts volume.

Transmission
(3A)(30 31)(Type)(38)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

10. [Mute] (Command: 39)
Mutes or unmutes the audio.

Transmission
(3A)(30 31)(Type)(39)(Data)(0D)

Data 000(30 30 30): Off
001(30 30 31): On

11. [Video Source] (Command: 3A)
Selects the video source.

Transmission
(3A)(30 31)(Type)(3A)(Data)(0D)

Data
000(30 30 30): VGA
001(30 30 31): HDMI1
002(30 30 32): HDMI2
021(30 32 31): HDMI3
101(31 30 31): Android
103(31 30 33): PC Slot

12. [Aspect Ratio] (Command: 3B)
Adjusts aspect ratio.

Transmission
(3A)(30 31)(Type)(3B)(Data)(0D)

Data
000(30 30 30): 16:9
001(30 30 31): 4:3
002(30 30 32): PTP

13. [Language] (Command: 3C)
Selects an OSD language.

Transmission
(3A)(30 31)(Type)(3C)(Data)(0D)

Data
000(30 30 30): English
001(30 30 31): French
002(30 30 32): Spanish
003(30 30 33): Chinese (Standard)
004(30 30 34): Chinese (Cantonese)
005(30 30 35): Portuguese
006(30 30 36): German
007(30 30 37): Dutch
008(30 30 38): Polish
009(30 30 39): Russian
010(30 31 30): Czech
011(30 31 31): Danish
012(30 31 32): Swedish
013(30 31 33): Italian
014(30 31 34): Romanian
015(30 31 35): Norwegian
016(30 31 36): Finnish
017(30 31 37): Greek
018(30 31 38): Turkish
019(30 31 39): Arabic
020(30 32 30): Japanese
021(30 32 31): Ukrainian

14. [Picture Mode] (Command: 3D)
Select the Picture mode.

Transmission
(3A)(30 31)(Type)(3D)(Data)(0D)

Data
000(30 30 30): Standard
001(30 30 31): Bright
002(30 30 32): Soft
003(30 30 33): Customer

15. [Hue] (Command: 3E)
Adjusts screen hue.

Transmission
(3A)(30 31)(Type)(3E)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

16. [Backlight] (Command: 3F)
Adjusts backlight.

Transmission
(3A)(30 31)(Type)(3F)(Data)(0D)

Data 000(30 30 30)~100(31 30 30)

17. [Colour Temperature] (Command: 40)
Adjusts colour temperature.

Transmission
(3A)(30 31)(Type)(40)(Data)(0D)

Data
000(30 30 30): Cool
001(30 30 31): Standard
002(30 30 32): Warm

18. [Remote Control] (Command: 41)

Sends a key code for the IR remote control.

Transmission

(3A)(30 31)(Type)(41)(Data)(0D)

Data
- 000(30 30 30): Vol+
- 001(30 30 31): Vol-
- 010(30 31 30): Up
- 011(30 31 31): Down
- 012(30 31 32): Left
- 013(30 31 33): Right
- 014(30 31 34): OK
- 020(30 32 30): Menu
- 021(30 32 31): Input Source
- 022(30 32 32): Exit
- 031(30 33 31): Blank
- 032(30 31 32): Freeze

19. [IR] (Command: 42)

Adjusts the remote control (IR).

Transmission

(3A)(30 31)(Type)(42)(Data)(0D)

Data
- 000(30 30 30): Enable
- 001(30 30 31): Disable

Things to Check Before Reporting a Malfunction

If the product is not working properly, check the following before reporting a malfunction. The issue might not be a malfunction. If the issue persists, please contact our customer service centre.

Note

- Checks and measures might differ depending on the model.
- For PC settings, please refer to Windows Help.

Issues Related to Product Use

Symptoms	Try the following
The power won't turn on.	• Check if the power cord is correctly plugged into the power outlet. • For models using an AC adaptor, disconnect the AC adaptor, clean the contact terminals, and turn the power on again.
The 'Unknown Product' message appears when the product is connected.	• Check if the PC (graphics card) driver is installed. • Check the user manual of the PC (graphics card) to see if the plug and play feature is supported.

Issues Related to Screen Display

Symptoms	Try the following
The screen is displayed abnormally.	• Connect a cable that matches the input source signal.
The screen flickers or shakes.	• If you turn the monitor on when it is cold, the issue may appear. This is not a malfunction. • Make sure that the current resolution and frequency settings of the graphics card are supported by the monitor.
Stripes appear on the background screen.	• When using VGA signals, swipe the centre of the screen upward with your hand and press **[General]** → **[Adjust]** → **[Auto phase]** to make adjustments.
Horizontal noise appears, or the characters look blurred.	• When using VGA signals, swipe the centre of the screen upward with your hand and press **[General]** → **[Adjust]** → **[Auto phase]** to make adjustments.

Issues Related to Screen Colour

Symptoms	Try the following
The screen resolution is low (16 colours).	• Use PC settings to set the colour to 24 bits (True Colour) or above.
The screen colour is unstable or looks black and white.	• Check the connection status of the signal cable. Alternatively, unplug the graphics card from the PC and plug it back in.
Black spots or bright spots appear on the screen.	• The presence of few black spots or bright spots (red, green, blue, black) on the screen is due to the unique characteristics of the display panel. This is not a product malfunction.
The screen brightness looks dark.	• Adjust the brightness and contrast. • The backlight needs to be repaired.

Issues Related to Sound

Symptoms	Try the following
The audio doesn't work.	• Check if the audio cable is connected properly. • Adjust the volume of the product or external device. • Check if the sound is set correctly.
The sound is too dull.	• Select the appropriate equaliser sound.
The sound is too low.	• Adjust the volume of the product or external device. • For some models, you will need to purchase external speakers separately since they do not have speakers built-in.

Other Issues

Symptoms	Try the following
The power suddenly turned off.	• Check if the auto-off feature is on. • Power supply is interrupted. Check if the power cord is correctly plugged into the power outlet. • Check the power control settings.

Issues Related to Touch

Symptoms	Try the following
Touch does not work.	• This issue occurs if the TOUCH cable connecting the PC and the product is not properly connected. Disconnect and reconnect the TOUCH cable after 10 seconds. • Check if the PC's power cord is properly connected to the socket, then restart the PC. • Touch may not respond if the system is down due to an unstable network. Try reconnecting the LAN cable or restarting your PC. • If your PC and product are not connected with a signal cable, touch does not respond. Check the signal cable connection. • Touch may not respond if the product is powered off. Check the product power. Check the power supply. • Failure to use a grounded socket may result in interruption or a touch error. Always connect the power cord to a grounded socket. • Check if the screen is currently on. • An interruption or touch error may occur in the following cases: – If you touch the screen with your nail or fingertip only – If you hold the touch pen on or near the tip – If you press the touch pen with strong force on the screen
The location of a touch does not correspond to the touch coordinates.	• This issue occurs when the touch screen is not calibrated properly. Change your PC settings.
Touch is applied to another monitor when using multiple monitors.	• This may occur if the product is not set as the default monitor when multiple monitors are being used. Set the product as the default monitor. • This issue occurs when the touch screen is not calibrated properly. Change your PC settings.

Symptoms	Try the following
Multi-touch does not respond.	• The content played (e.g. Paint) may not support Multi-touch. Use content that supports Multi-touch. • Disconnect and reconnect the TOUCH cable after 10 seconds. • Try restarting the running content (e.g. Paint). • Try restarting your PC. • Multi-touch may not work stably on the edge of the touch screen. • If the interval between two touches is too short, a touch error may occur.

Note

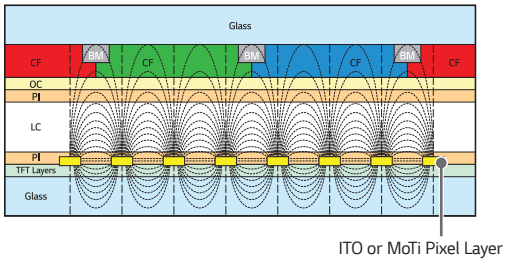
- Touch compatibility by OS
  - iOS, macOS v11.5.1 or later
  - Windows: Windows 10 Pro 1803 or later
  - Chrome: ChromeOS 92.0.4515.162 or later

Issues Related to Afterimages

- After-image appears when the product is turned off.
  - Pixels may be damaged rapidly if a still image is displayed on the screen for a long period of time. Use the screen-saver function.
  - Switching from a screen with high differences in luminance (black and white or grey) to a darker screen may cause an afterimage. This issue can occur due to the display characteristics of the product.
- When the LCD screen is in a still pattern for extended periods of use, a slight voltage difference may occur between the electrodes that operate the liquid crystal (LC). The voltage difference between the electrodes increases over time and tends to keep the liquid crystal aligned in one direction. At this time, the previous image remains, which is called an afterimage.
- Afterimages do not occur when continuously changing images are used but take place when a certain screen is fixed for a long time. The following are operational recommendations for reducing the occurrence of afterimages when using a fixed screen. The maximum recommended time for switching the screen is 12 hours. Shorter cycles are better for preventing afterimages.
- Recommended Usage Condition

1 Change the background colour and text colour at equal time intervals.
  - Afterimages occur less frequently when the colours to be changed are complementary to one another.





2 Switch the screen at equal time intervals.
  - Take caution, and ensure that text or images from before the screen change are not left in the same location after the screen change.



