PHILIPS

# Collaboration Display
# 4000 Series

## 65BDL4252E
## 75BDL4252E
## 86BDL4252E



# User Manual (English)

www.philips.com/ppds

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# 1. Safety Instructions

## Safety precautions and maintenance



WARNING: Use of controls, adjustments or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards and/or mechanical hazards.

### Read and follow these instructions when connecting and using your display:

### Operation:

- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Keep the display away from oil, otherwise the plastic cover may be damaged.
- It is recommended to set the display up in the well-ventilated place.
- If the product will be used in extreme conditions such as high temperature, humidity, display patterns or operation time, etc. It is strongly recommended to contact Philips for Application engineering advice. Otherwise, its reliability and function may not be guaranteed. Extreme conditions are commonly found at Airports, Transit Stations, Banks, Stock market, and controlling systems.
- Remove any object that could fall into ventilation holes or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- When turning off the display by detaching the power cord, wait 6 seconds before re-attaching the power cord for normal operation.
- Ensure the use of an approved power cord provided by Philips at all times. If your power cord is missing, please contact your local service center.
- Do not subject the display to severe vibration or high impact conditions during operation.
- Do not knock or drop the display during operation or transportation.

### Maintenance:

- To protect your display from possible damage, do not put excessive pressure on the LCD panel. When moving your display, grasp the frame to lift; do not lift the display by placing your hand or fingers on the LCD panel.
- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use organic solvent, such as, alcohol, or ammonia-based liquids to clean your display.
- To avoid the risk of shock or permanent damage to the set, do not expose the display to dust, rain, water or an excessively moist environment.
- If your display becomes wet, wipe it with dry cloth as soon as possible.
- If a foreign substance or water gets in your display, turn the power off immediately and disconnect the power cord. Then remove the foreign substance or water, and send the unit to the maintenance center.
- Do not store or use the display in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your display and ensure a longer lifetime, we strongly recommend using the display in a location that falls within the following temperature and humidity ranges.

### Environmental absolute ratings

| Item | Min. | Max. | Unit |
|---|---|---|---|
| Storage temperature | -20 | 60 | °C |
| Operation temperature | 0 | 40 | °C |
| Glass Surface temperature (Operation) | 0 | 65 | °C |
| Storage humidity | 10 | 90 | % RH |
| Operation humidity | 10 | 90 | % RH |

Operating ambient temperature: 0 - 40 °C,

Storage and transportation ambient temperature: -10 - 50 °C,

Altitude not higher than 2000m (air pressure not less than 80kPa).

**WARNING:**

- replacement of a battery with an incorrect type may defeat a safeguard;
- disposal of a battery into ire or a hot oven, or mechanically crushing or cutting of a battery, may result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment, such as sunshine, ire, or hot surface may result in an explosion or the leakage of flammable liquid or gas;
- a battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

CAUTION

Risk of fire or explosion if the battery is replaced by an incorrect type!

- LCD panel temperature need to be 25 degrees Celsius at all time for better luminance performance.
- Only the lifetime of the display stated in this specification is guaranteed if the display is used under the proper operation conditions.

**IMPORTANT:** Always activate a moving screen saver program when you leave your display unattended. Always activate a periodic screen refresh application if the unit will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen. This is a well-known phenomenon in LCD panel technology. In most cases, the "burned in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

**WARNING:** Severe "burn-in" or "after-image" or "ghost image" symptoms will not disappear and cannot be repaired. This is also not covered under the terms of your warranty.

## Service:

- The casing cover should be opened only by qualified service personnel.
- If there is any need for repair or integration, please contact your local service center.
- Do not leave your display under direct sunlight.



If your display does not operate normally, having followed the instructions set out in this document, please contact a technician or your local service center.

## Stability Hazard

The device may fall, causing serious personal injury or death. To prevent injury, this device must be securely attached to the floor/ wall in accordance with the installation instructions.

## Read and follow these instructions when connecting and using your display:



- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use alcohol, solvents or ammonia-based liquids.
- Consult a service technician if the display does not operate normally when you have followed the instructions in this manual.
- The casing cover should be opened only by qualified service personnel.
- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Remove any object that could fall into the vents or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- Keep the display dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- When turning off the display by detaching the power cable or DC power cord, wait for 6 seconds before re-attaching the power cable or DC power cord for normal operation.
- To avoid the risk of shock or permanent damage to the set do not expose the display to rain or excessive moisture.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- **IMPORTANT:** Always activate a screen saver program during your application. If a still image in high contrast remains on the screen for an extended period of time, it may leave an 'after-image' or 'ghost image' on the front of the screen. This is a well-known phenomenon that is caused by the shortcomings inherent in LCD technology. In most cases the afterimage will disappear gradually over a period of time after the power has been switched off. Be aware that the after-image symptom cannot be repaired and is not covered under warranty.
- If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

## EU Declaration of Conformity

This device complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2014/30/EU), Low-voltage Directive (2014/35/EU), RoHS directive (2011/65/ EU), ESPR Regulation (2024/1781), Radio Equipment Directive(2014/53/EU).

This product has been tested and found to comply with the harmonized standards for Information Technology Equipment, these harmonized standards published under Directives of Official Journal of the European Union.

### ESD Warnings

When user close to the monitor may cause the equipment discharge and reboot to the display of main menu.

### Warning:

This equipment is compliant with Class A of EN55032/CISPR 32. In a residential environment this equipment may cause radio interference.

## Federal Communications Commission (FCC) Notice (U.S. Only)



**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only an RF shielded cable that was supplied with the display when connecting this display to a computer device.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Envision Peripherals Inc.
490 N McCarthy Blvd, Suite #120
Milpitas, CA 95035
USA

## FCC/ISED/CE-RED Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5GHz products are restricted to indoor usage only.

## Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

## Canada:

Industry Canada statement:

This device complies with RSS-247 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

## Radiation Exposure Statement:

This equipment complies with FCC/ISED/CE-RED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

## Polish Center for Testing and Certification Notice

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, display, printer, and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251.

### Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kołkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-89/E-06251.

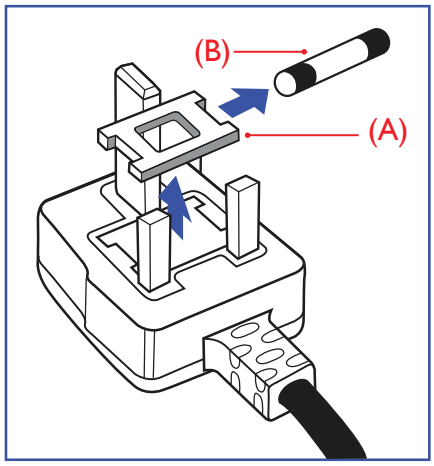
### Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceniowego źródła zasilania.
- Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
- System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

## Electric, Magnetic and Electromagnetic Fields ("EMF")

1. We manufacture and sell many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
2. One of our leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
3. We are committed to develop, produce and market products that cause no adverse health effects.
4. We confirm that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
5. We play an active role in the development of international EMF and safety standards, enabling us to anticipate further developments in standardization for early integration in its products.

## Information for U.K. only




**WARNING - THIS APPLIANCE MUST BE EARTHED.**

**Important:**

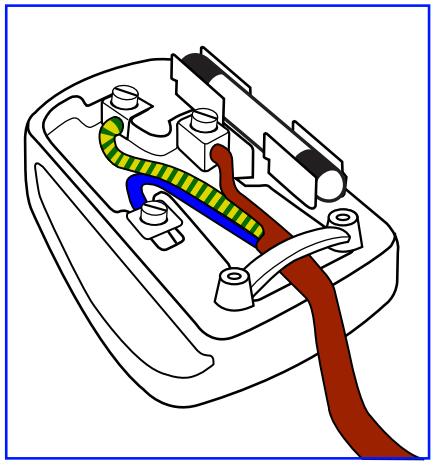
This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:+

1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS 1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate 3-pin plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

Note: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.



**How to connect a plug**

The wires in the mains lead are coloured in accordance with the following code:

BLUE - "NEUTRAL" ("N")

BROWN - "LIVE" ("L")

GREEN & YELLOW - "EARTH" ("E")

1. The GREEN & YELLOW wire must be connected to the terminal in the plug which is marked with the letter "E" or by the Earth symbol or coloured GREEN or GREEN & YELLOW.
2. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
3. The BROWN wire must be connected to the terminal which marked with the letter "L" or coloured RED.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the three wires.

## North Europe (Nordic Countries) Information

Placering/Ventilation

**VARNING:**

FÖRSÄKRA DIG OM ATT HUVUDBRYTARE OCH UTTAG ÄR LÄTÅTKOMLIGA, NÄR DU STÄLLER DIN UTRUSTNING PÅPLATS.

Placering/Ventilation

**ADVARSEL:**

SØRG VED PLACERINGEN FOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMT TILGÆNGELIGE.

Paikka/Ilmankierto

**VAROITUS:**

SIJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA PISTORASIASTA.

Plassering/Ventilasjon

**ADVARSEL:**

NÅR DETTE UTSTYRET PLASSERES, MÅ DU PASSE PÅ AT KONTAKTENE FOR STØMTILFØRSEL ER LETTE Å NÅ.

Detachable power cord sets, Type(s) NISPT-2, SPT-1, SPT-2, min. 18AWG x 3, VW-1, min.105°C, min. length 1.50m, with attachment plug configuration NEMA 5-15P, Connector: 250Vac, min 10A

## Waste Electrical and Electronic Equipment-WEEE

### Attention users in European Union private households



This marking on the product or on its packaging illustrates that, under European Directive 2012/19/EU governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

### Attention users in United States:

Please dispose of according to all Local, State and Federal Laws. For the disposal or recycling information, contact: www.mygreenelectronics.com or www.eiae.org.

### End of Life Directives-Recycling



Your new Public Information Display contains several materials that can be recycled for new users.

Please dispose of according to all Local, State, and Federal laws.

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ENERGY STAR is a program run by the U.S. Environmental Protection Agency (EPA) and U.S. Department of Energy (DOE) that promotes energy efficiency.

This product qualifies for ENERGY STAR in the “Standard mode” setting and this is the setting in which power savings will be achieved.

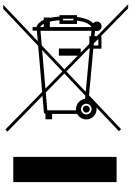
Changing the Standard mode picture settings or enabling other features will increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR rating.

Refer to EnergyStar.gov for more information on Energy Star program.

### Restriction on Hazardous Substances statement (India)

This product complies with the “E-Waste (Management) Rules, 2016” CHAPTER V, rule 16, sub-rule (1) . Whereas New Electrical and Electronic Equipment and their components or consumables or parts or spares do not contain Lead, Mercury, Cadmium, Hexavalent Chromium, polybrominated biphenyls and polybrominated diphenyl ethers beyond a maximum concentration value of 0.1% by weight in homogenous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers and of 0.01% by weight in homogenous materials for cadmium. except of exemptions set in Schedule 2 of the Rule.

### E-Waste Declaration for India



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment . The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about E -waste please visit http://www.india.philips.com/about/sustainability/recycling/index.page and to know where you can drop off your waste equipment for recycling in India please contact on below given contact details.

Helpline number: 1800-425-6396 (Monday to Saturday, 9 a.m. to 5:30 pm)

E-mail: india.callcentre@tpv-tech.com

### Batteries

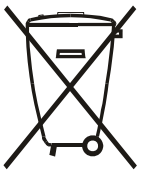


For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

Please contact your local authority for details on the collection and recycling schemes.

For Switzerland: The used battery is to be returned to the selling point.

For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.
According to EU Regulation (EU) 2023/1542, the battery can't be disposed improperly. The battery shall be separated to collect by local service.



Após o uso, as pilhas e/ou baterias deverão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada.

警語： 使用過度恐傷害視力。

注意事項：
(1) 使用 30 分鐘請休息 10 分鐘。
(2) 未滿 2 歲幼兒不看螢幕，2 歲以上每天看螢幕不要超過 1 小時。

## Turkey RoHS:

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

## Ukraine RoHS:

Обладнання відповідає вимогам Технічного регламенту щодо обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні, затвердженого постановою Кабінету Міністрів України від 3 грудня 2008 № 1057

## End-of-Life Disposal

Your new Public Information Display contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old display from your local Philips dealer.

**(For customers in Canada and U.S.A.)**

This product may contain lead and/or mercury. Dispose of in accordance to local-state and federal regulations. For additional information on recycling contact www.eia.org (Consumer Education Initiative)

# 2. Unpacking and Installation

## 2.1. Unpacking

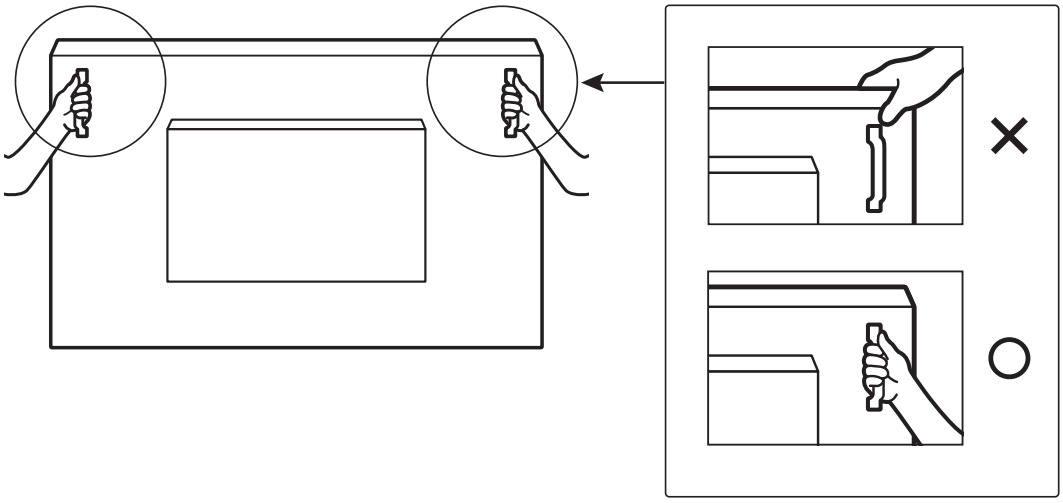
- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- As this product is high and heavy, the operation of moving the device is recommended to be performed by two technicians.
- After opening the carton, ensure that the contents are complete and in good condition.

### ■ Before Unpacking

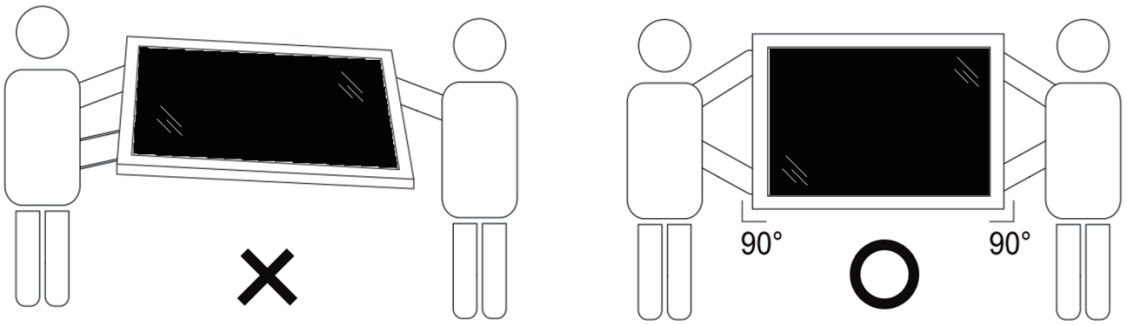
- Please read and fully understand unpacking notice before installation.
- Please check the packaging for any abnormalities, such as creaking, dents, etc.
- Please do necessary inspection before you move the display out of the carton.
- Always have an experienced technician install the display to prevent any damage.

### ■ Notice

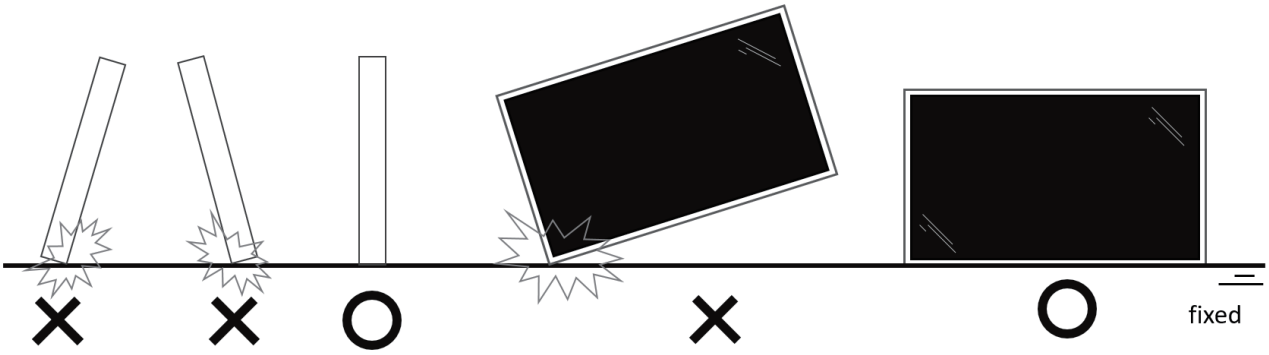
- Take the display out of the carton box by two or four adults with both hands.
- Hold onto the handles when moving the display.



- Please keep the display upright when moving it.



- Place the display vertically and its weight should spread evenly on the surface.

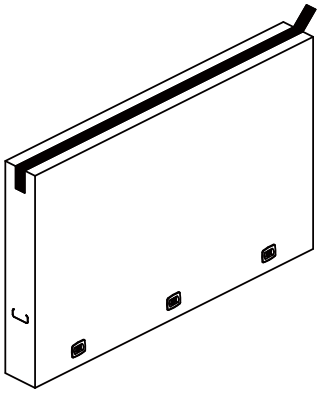



- Keep the display upright, without bending or twisting it while moving.

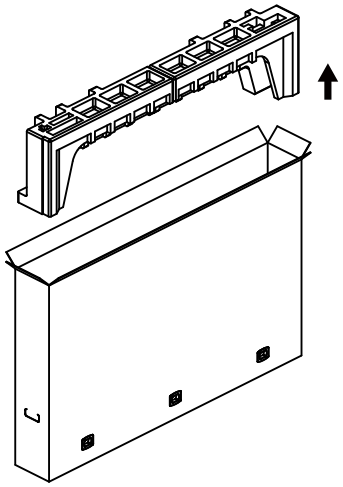


## ■ Unpacking Process

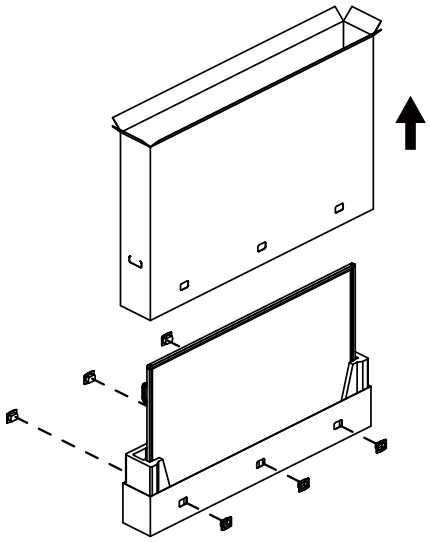
1. Remove the tape.



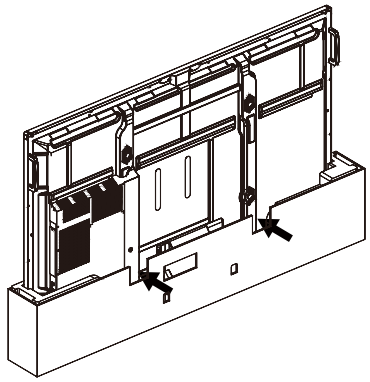
2. Remove all accessories and top cushion from the top opening of the packaging.



3. Discard the cardboard and open the packing bag.

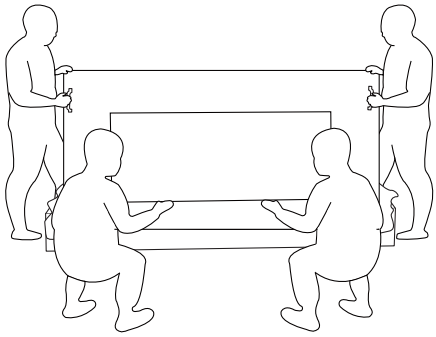


4. Install the wall mount kit (*) while the display is still in the bottom cushion.(* need to purchase separately)

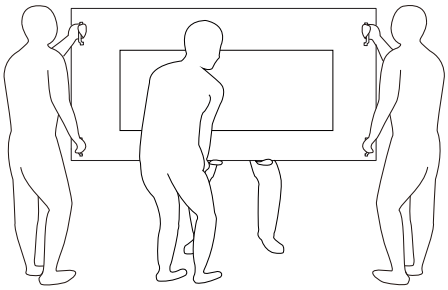


*** The recommended number of professional personnel for unpacking and installation is at least 2 for 65” & 75” models, and 4 for the 86” model.**

5. Two people on the sides should hold the top handles from the back of the display, while two others help hold the display from the bottom.



6. Carefully move the display until the bottom handles are out of the box. Two people on the sides should hold the 4 handles, while two others stand at the front and back of the display to support the bottom.

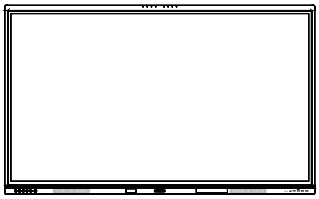


7. The person who was initially at the back of the display should move to the front, so that all four people can mount the display onto the wall.

## 2.2. Package Contents

Please verify that you received the following items with your package content:

- LCD Display
- Remote Control and AAA Batteries
- Power Cable
- Touch USB
- Stylus x 2
- Wall Mount Bracket
- CRD33 Wireless Module
- Quick Start Guide



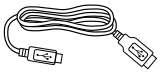
LCD Display



Remote Control
and AAA Batteries



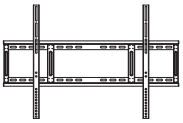
Power Cable



Touch USB



Stylus x 2



Wall Mount Bracket



CRD33 Wireless Module



Quick Start Guide

* Differences according to regions.

Display design and accessories may differ from those illustrated above.

**NOTES:**

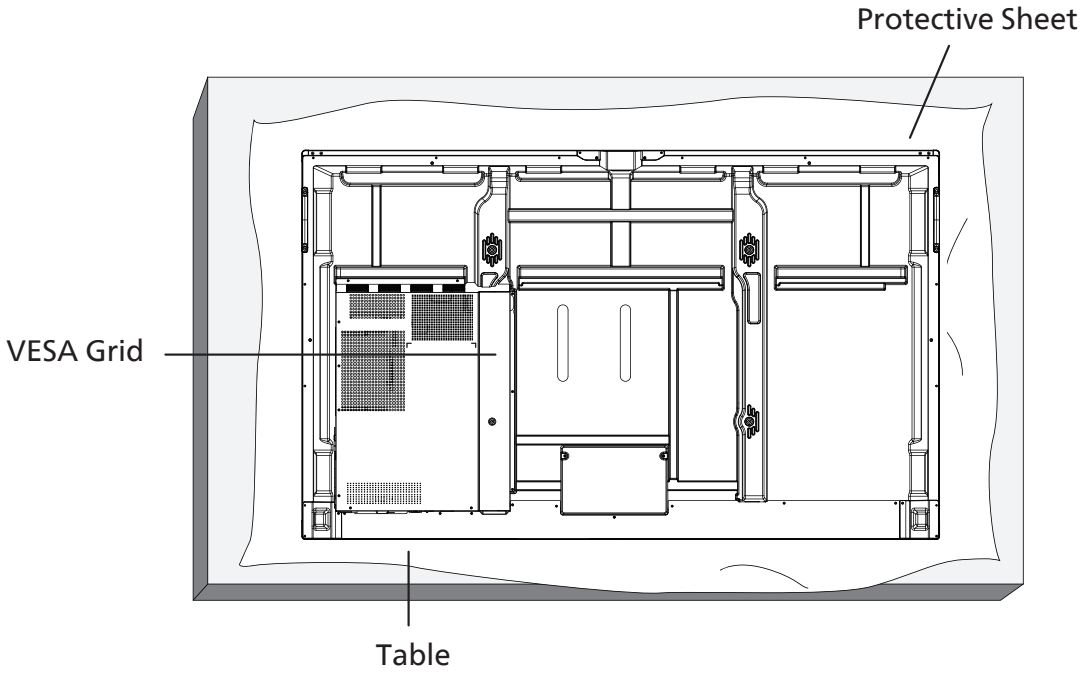
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country (Type H05W-F, 2G or 3G, 0.75 or 1 $mm^2$ should be used).
- Keep the packaging materials appropriately after unpacking the product.

## 2.3. Installation Notes

- Only use the power cable provided with this product. If an extension cord is required, please consult your service agent.
- The product should be installed on a flat surface, or the product may tip over. Leave a space between the rear of the product and the wall for proper ventilation. Do not install the product in a kitchen, bathroom or a place exposed to moisture, failure to do so may shorten the life of the internal parts.
- Do not install the product where it is 3000m and higher in altitude. Failure to do so may result in malfunctions.

## 2.4. Mounting on a Wall

To mount this display on a wall, a standard wall-mounting kit (commercially available) is required. It is recommended that you use a mounting interface that complied with TUV-GS and /or UL1678 standard in North America.




1. Prepare a flat and horizontal surface that is larger than the display and spread a thick protective sheet on it to facilitate your operation without scratching the screen.
2. Ensure you have all accessories for all types of mounting (wall mount, table stand, etc.).
3. Follow the instructions that came with the base mounting kit. Failure to follow the correct mounting procedures could result in damage to the equipment, or injury to you or the installer. The product warranty does not cover the damage caused by improper installation.
4. For the wall-mounting kit, use the M8 mounting screws (with a length 15 mm longer than the thickness of the mounting bracket) and tighten them securely.

### 2.4.1. VESA Grid

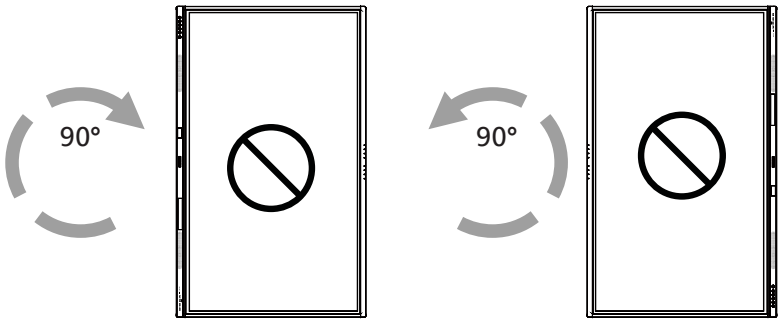
| | |
|---|---|
| **65BDL4252E** | 600(H) x 400(V) /M8 |
| **75BDL4252E** | 800(H) x 400(V) /M8 |
| **86BDL4252E** | 800(H) x 600(V) /M8 |

**Caution:**

To prevent the display from falling:

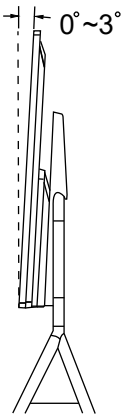
- For wall mounting, we recommend that you install the display with metal brackets which are commercially available. For detailed instructions about the installation, refer to the guide provided with the bracket.
- To prevent the display from falling in case of earthquake or other natural disaster, please consult the manufacturer of the bracket for the mounting location.
- As this product is high and heavy, the installation of this product is recommended to be performed by four technicians.

This display can not be installed in portrait mode, neither counterclockwise nor clockwise.




### The recommended installation angle

The recommended installation angle is to tilt the product backward between 0 and 3 degrees. Tilting the product forward may affect its touch function.




### Caution:

To prevent the display from falling:

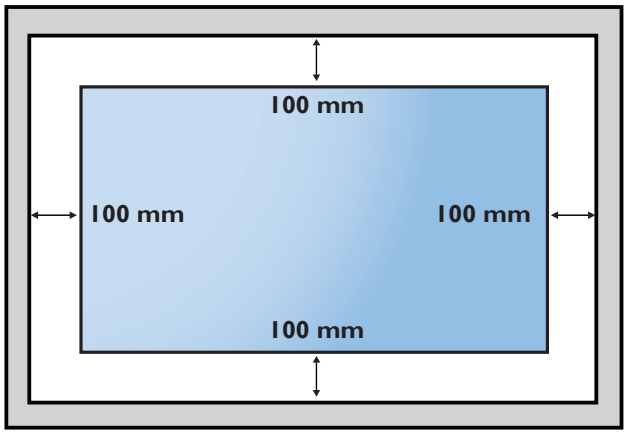
- For wall mounting, we recommend that you install the display with metal brackets which are commercially available. For detailed instructions about the installation, refer to the guide provided with the bracket.
- To prevent the display from falling in case of earthquake or other natural disaster, please consult the manufacturer of the bracket for the mounting location.

As this product is high and heavy, the installation of this product is recommended to be performed by four technicians.

### Required space for ventilation

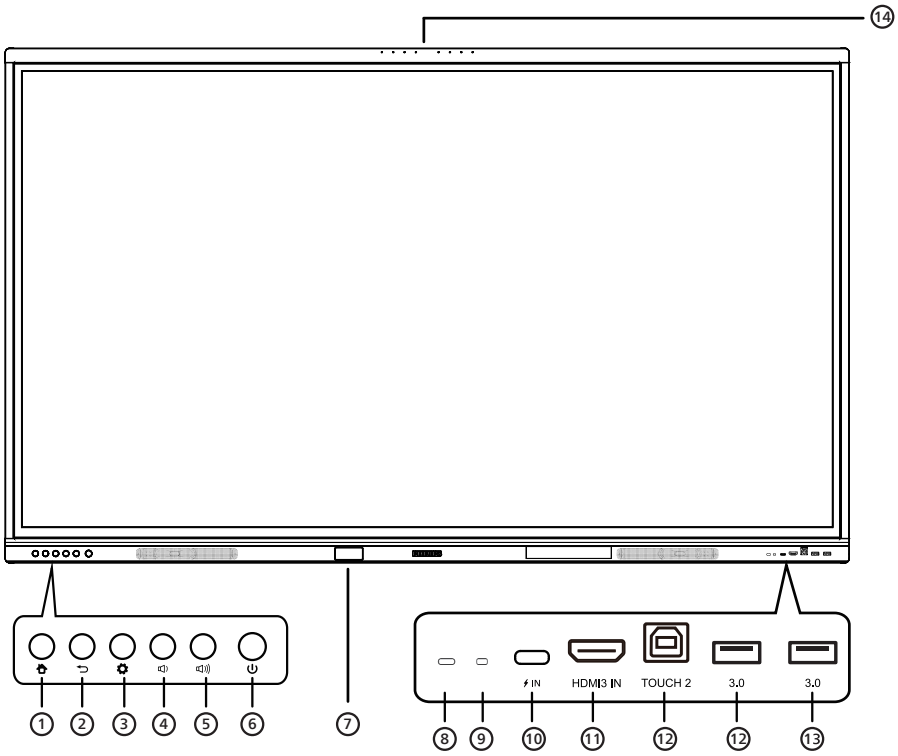
Leave a space of 100 mm at the top, rear, right and left of the display for ventilation.

Note: We recommend you contact a professional technician when installing the display on a wall. We are not responsible for any damage to the product if the installation is not performed by a professional technician.



# 3. Parts and Functions

## 3.1. Control Panel




① **HOME button**
Back to the main interface.

② **BACK button**
Press this button to mute or unmute the sound.

③ **Menu button**
Call up [Professional Setting] menu.

④ **Volume down button**
Turn down the volume.

⑤ **Volume up button**
Turn up the volume.

⑥ **POWER button**
Tap to enter energy saving function; press for at least 2 seconds to enter standby mode.

⑦ **NFC**
NFC reading area.

⑧ **Remote control signal receiver**
Receive remote control signal.

⑨ **Light sensor**
Ambient light to adjust backlight for appropriate brightness. It can be switched on or off in the menu.

⑩ **⚡IN**
USB Type C: Support charging, data transmission, extension for audio and video output interface, etc.

Note: The maximum rated power of the USB Type-C port for this product is 65W. When using this port to charge electronic devices, the charging power of the electronic device cannot exceed the rated power of this port. If the charging power of the electronic device exceeds the rated charging power of this port, please refrain from directly using this port for charging.

⑪ **HDMI 3 IN**
High-definition multimedia interface signal input, for connecting to devices with HDMI output interface (personal computer with HDMI output, set-top box, or other video devices).

⑫ **TOUCH 2**

Touch signal output to the external computer.
*TOUCH 2 on the front works with front HDMI3 IN.

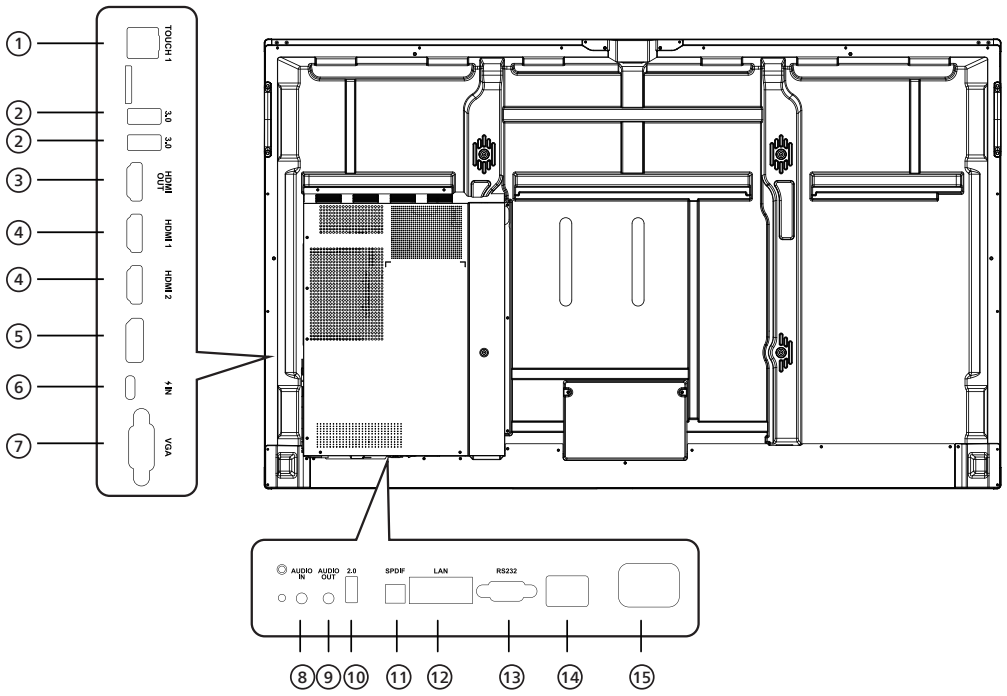
⑬ **USB 3.0**

Connect USB devices such as mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.

⑭ **Microphones**

Pick up live audio.

## 3.2. Input/Output Terminals




① **TOUCH 1**
Touch signal output to the external computer.
*TOUCH 1 on the side works with side HDMI 1 or HDMI 2 inputs.

② **USB 3.0**
Connect USB devices such as mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.

③ **HDMI OUT**
Connected to the devices with HDMI input function (monitor).

④ **HDMI 1 & HDMI 2**
High-definition multimedia interface signal input, for connecting to devices with HDMI output interface (personal computer with HDMI output, set-top box, or other video device).

⑤ **DP IN**
Connected to devices with Display Port output function.

⑥ **⚡IN**
Support charging, data transmission, extension for audio and video output interface, etc.

⑦ **VGA**
External input for computer image.

⑧ **AUDIO LINE IN**
Input for external audio sources (typically used as the sound input for the VGA interface)..

⑨ **AUDIO LINE OUT**
Audio output to the external speaker.

⑩ **USB 2.0**
Connect USB devices such as mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.

⑪ **SPDIF**
Carry multichannel sound via optical signals..

⑫ **RJ45**
Wired network interface, for connecting to Ethernet.

⑬ **RS232**
Serial interface, used for mutual transfer of data between devices.

⑭ **AC Switch**
To open or shut down Ac power supply. “I” means power on, “O” means power off.

⑮ **AC IN**
Input for AC power supply.

## 3.3. Inserting the Batteries in the Remote Control

The remote control is powered by two 1.5V AAA batteries.

To install or replace the batteries:

1. Press and then slide the cover to open it.
2. Insert the batteries with the correct polarity (+) and (–).
3. Replace the cover.

**Caution:**

Incorrect use of batteries may cause leakage or explosion. Be sure to follow the instructions below:

- Insert “AAA” batteries with the correct polarity (+ and -).
- Do not mix battery types.
- Do not use a new battery with a used one together. Otherwise, it may cause leakage or shorten the life of the batteries.
- Remove the dead batteries immediately to avoid battery leakage in the battery compartment. Do not touch exposed battery acid, as it may cause injury to your skin.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion; leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Note: Remove the batteries from the battery compartment when not using for an extended period of time.

## 3.4. Handling the Remote Control

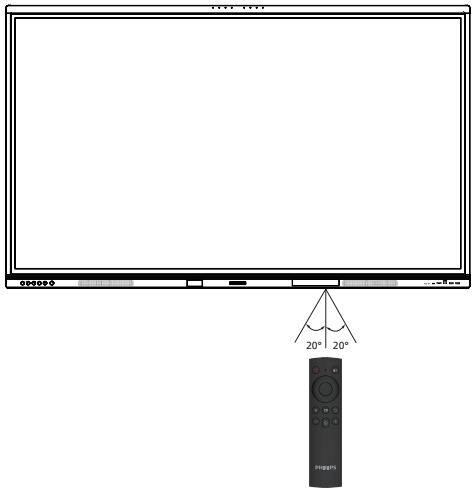
- Do not drop or apply shock to the remote control.
- Do not allow any liquid to get inside the remote control. If water has entered the remote control, wipe the remote control with a dry cloth immediately.
- Do not place the remote control near heat and steam sources.
- Do not attempt to disassemble the remote control, unless you need to place batteries in the remote control.

## 3.5. Operating Range of the Remote Control

Point the top front of the remote control at the remote sensor on the display when you press the buttons.

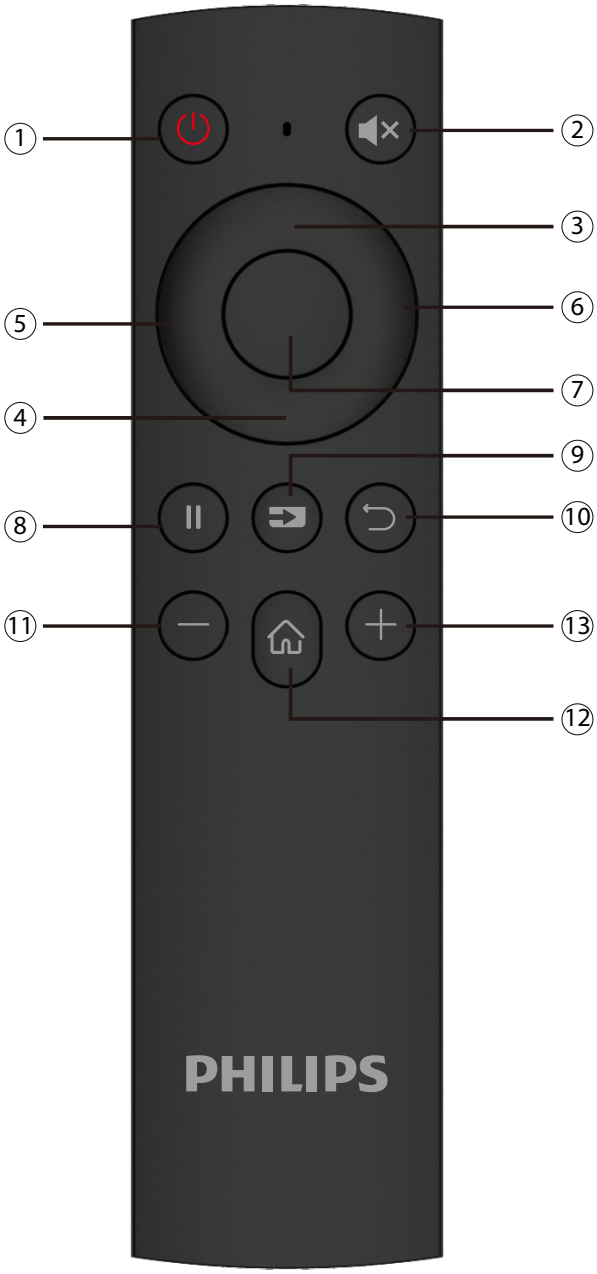
Use the remote control within a distance of less than 4m/16ft from the display’s sensor, and a horizontal and vertical angle of less than 20°.

Note: The remote control may not function properly when the remote control sensor on the display is under direct sunlight or strong illumination, or when there is an object between the remote control and the remote sensor of the display.



## 3.6. Remote Control

### 3.6.1. General Functions




① **POWER button**
Power on/off.

② **[🔇] MUTE button**
Mute or unmute the sound.

③ **UP button**
Press this button for upward selection.

④ **Down button**
Press this button for downward selection.

⑤ **LEFT button**
Press this button for left selection.

⑥ **RIGHT button**
Press this button for right selection.

⑦ **ENTER button**
Confirm selection state

⑧ **[ II ] FREEZE button**
Freeze the screen.

⑨ **[ ⇨ ] SOURCE button**
Open input source menu.

⑩ **[ ⮌ ] BACK button**
Return to previous page, or exit current app.

⑪ **[ — ] REDUCE button**
Reduce the volume.

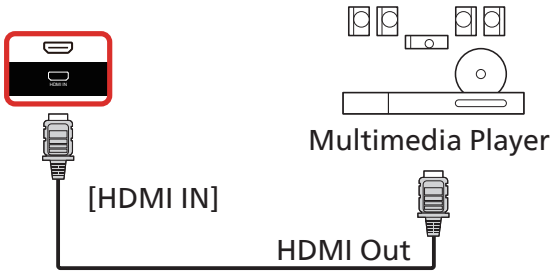
⑫ **[ ⌂ ] HOME button**
Return to Android home page.

⑬ **[ + ] INCREASE button**
Increase the volume.

# 4. Connecting External Equipment

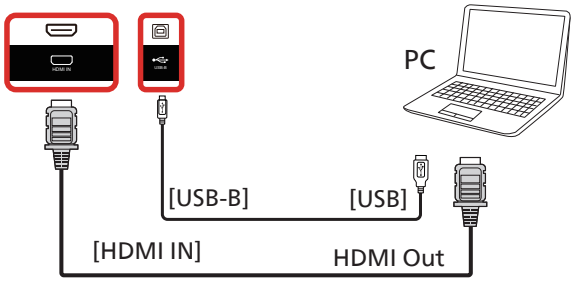
## 4.1. Connecting External Equipment (Multimedia Player)

### 4.1.1. Using HDMI Video Input

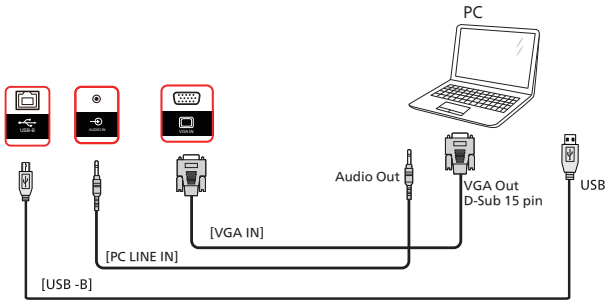



## 4.2. Connecting a PC

### 4.2.1. Using HDMI Input with USB-B (Touch Connector to PC)

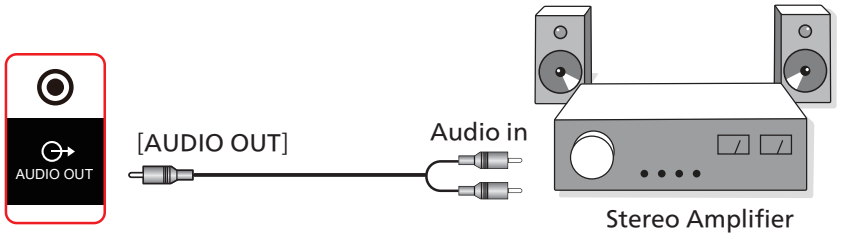



### 4.2.2. Using VGA




## 4.3. Connecting Audio Equipment

### 4.3.1. Connecting an External Audio Device



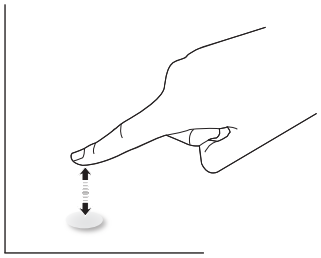
## 4.4. Touch Operation

This display is equipped with a touch-sensitive screen and supports the Windows Touch features either by single touch or multi-touch operation. You can touch the pictures or text on the display gently with your fingers, and the system will react.

This section explains about the touch operation on the display. For further detail on how to run the touch operation, please refer to the Windows operation instruction.

### Single Tap

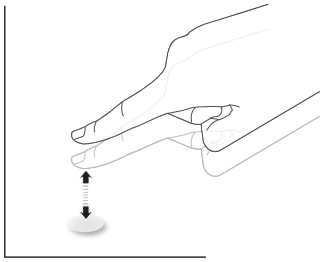
Touch the target on the screen with one fingertip for one quick tap, then release.



Please note that a touch screen will respond to a light touch from your fingertip when tapping on touch screen.

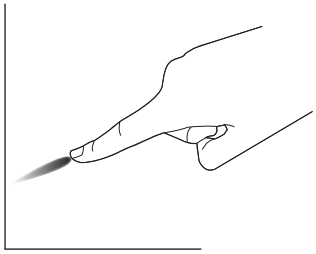
### Double Tap

Touch the target on the screen with one fingertip for two quick taps, then release.



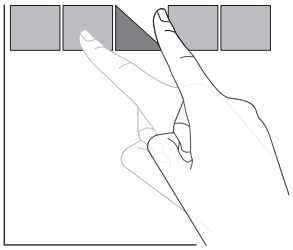
### Pan

Touch the target on the screen with one fingertip and move across the target without losing direct contact, then release.



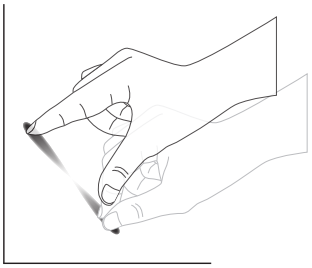
### Flick

Touch the target on the screen with one fingertip and brush the surface quickly.



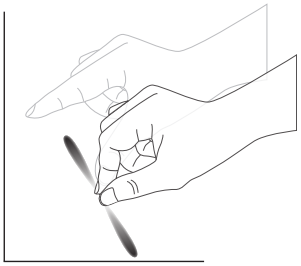
### Zoom in

Touch the target on the screen with two fingertips held together and move them apart to zoom in (magnify) the screen image.



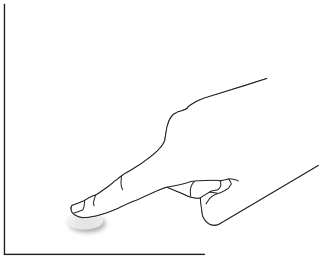
### Zoom out

Touch the target on the screen with two fingertips stretched apart and move them closer to zoom out (shrink) the screen image.



### Touch and Hold

Touch and hold the target on the screen with one fingertip for a while to display a context menu or options page for an item.



### Avoid

- Avoid scratching with sharp object on the screen. Only use your fingertips to perform touch operation.
- Do not expose the screen to intensive light, spotlight, or wide-spread light.
- Do not install the product to a location where is close to the windows or glass-doors as the direct sunlight may affect the touch-control performance.
- To avoid screen interference with each other, do not place 2 touch screens side by side as shown below.

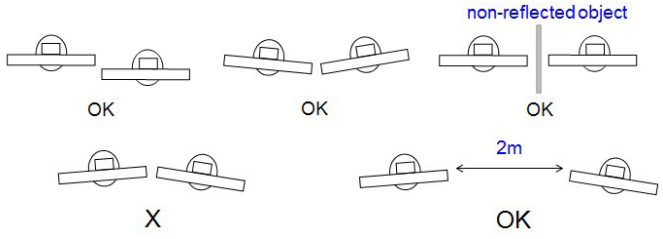
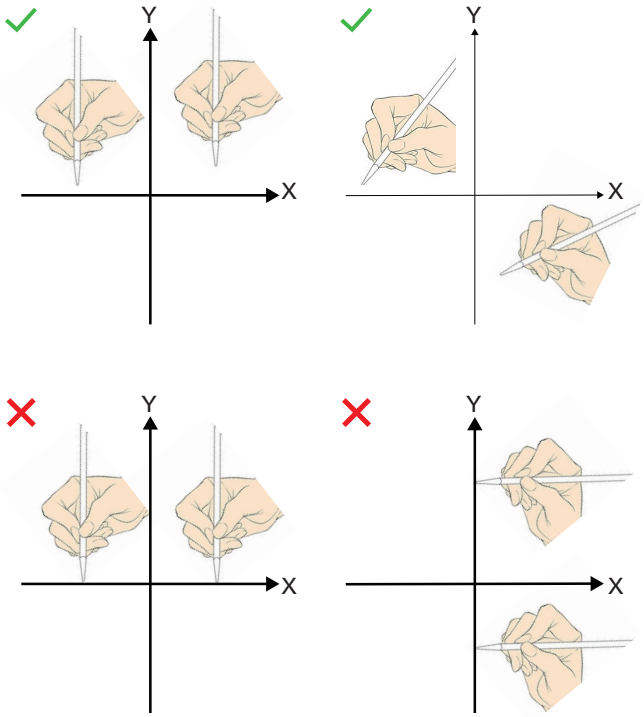
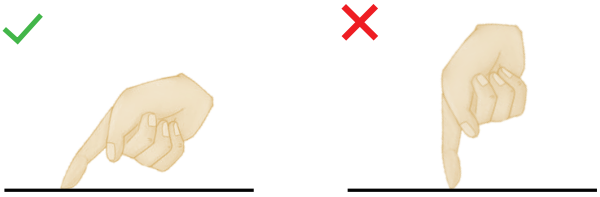



Fig. Touch screens interference

- Pens must be kept at a distance of more than 30cm from each other, and simultaneous writing in both the vertical direction along the X-axis and the horizontal direction along the Y-axis is not allowed.

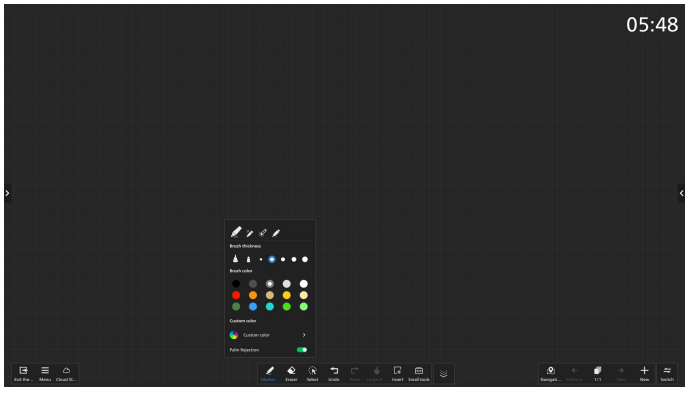



- When touching with your fingers, make sure that the maximum area of your fingertips touches the panel. Do not touch with your nails to avoid misrecognition (malfunction).

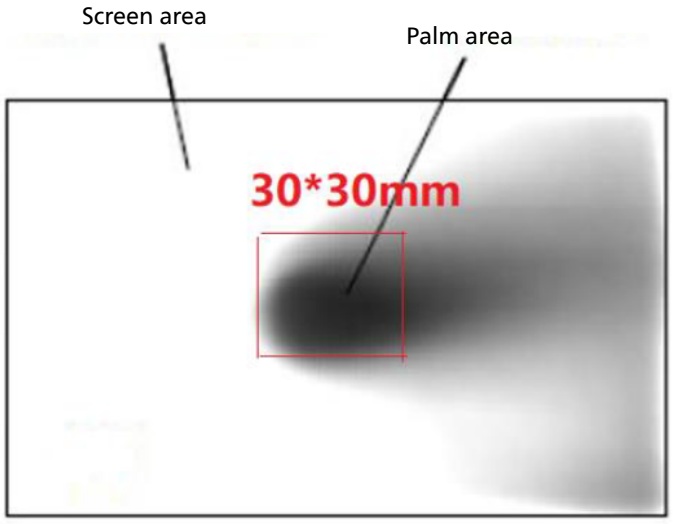


## 4.5. Touch Operation when Palm Rejection is Enabled

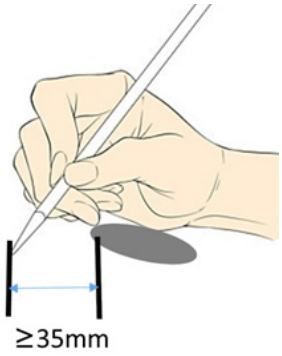
In the Whiteboard Toolbar ->Marker Pen->Palm rejection, switch the palm rejection to on.



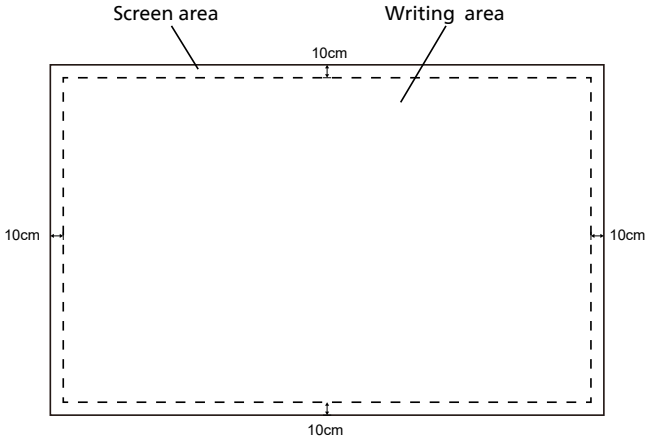

1. The palm area should be at least 30 * 30mm.




2. The distance between the writing pen tip and the palm must be ≥ 35mm.




3. The palm is only effective for writing when it is more than 10cm away from the edge of the active area.

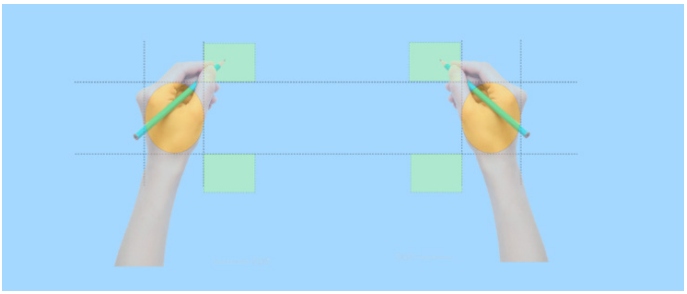



4. It only supports writing with one pen and palm.

   **NOTE:**

   "Palm Rejection" and "2-color styli" are mutually exclusive features.

5. Best writing area for Palm rejection. The best writing position for the left hand is in the upper right and lower right of the palm. The best writing position for the right hand is on the top left and bottom left of the palm.

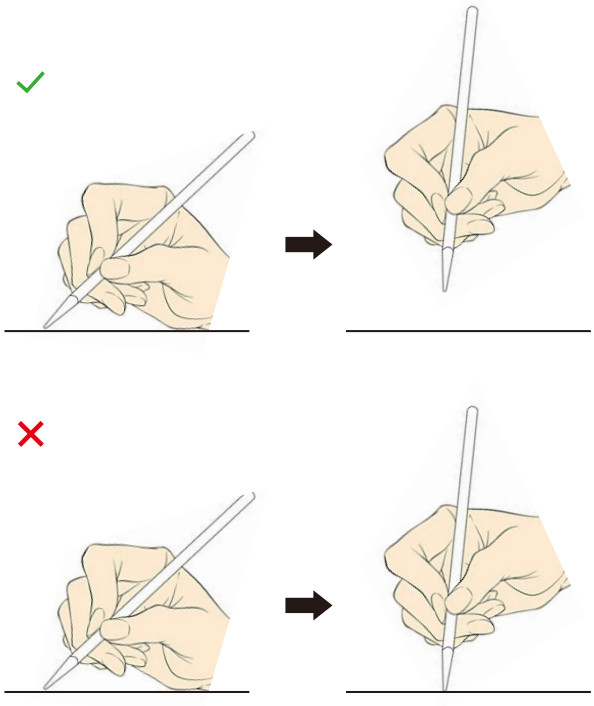


6. Palm Rejection: Writing Accuracy ≥ 85%.

| Judgment | OK | NG |
|---|---|---|
| Palm Rejection ON | Write correctly | When writing, there may be instances of bursting points, flying lines, broken lines, etc |

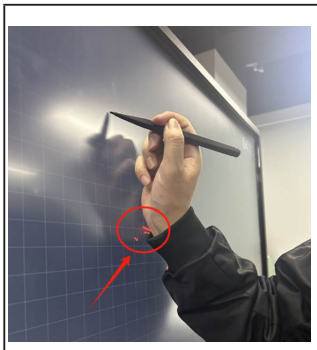
**NOTE:**

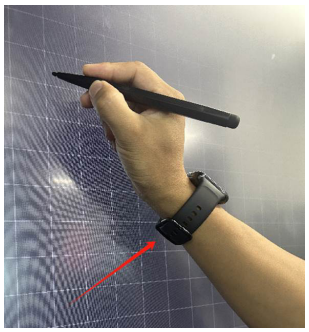
During writing, if the palm is suddenly lifted (palm area less than 30 * 30mm), but the pen continues to write, it may cause the line to break or prevent further writing. It is recommended to lift both the palm and the pen simultaneously.



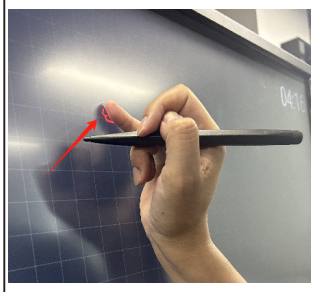
7. The following usage scenarios do not support Palm Rejection, which can affect the writing effect.

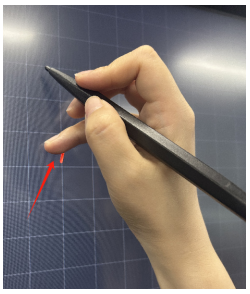
| | |
|---|---|
| The sleeves are close to or in contact with the glass surface. | Wearing a watch, bracelet, ring, etc. |



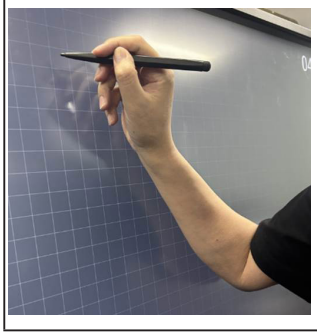


When writing, touch the screen with your fingers.





The entire arm is close to the glass surface.



The multi Touch function is not supported by macOS®. The OS supported is listed below.

| Item | Description | | |
|---|---|---|---|
| Operating Systems Supported by Plug-and-Play | Windows 7, 8/8.1, 10, 11 | | |
| Supported Modes of Operation by the Operating System | OS | Single Touch | Multi Touch |
| | Windows 7, 8/8.1, 10, 11 | O | O* |
| | Mac OSx before (include) 10.15 | O | X |
| | Mac OSx after (include) 10.10 | O | X |
| | Chrome 38+ | O | O** |
| | Android 4.0, Kernel after (include) 3.6 | O | O*** |
| | Linux | O**** | O***** |
| | * Support multi-touch.<br>** Kernel 3.15 upward.<br>*** Support 10-point touch.<br>**** CentOS, Debian, Fedora, Gentoo, Mandrake(Mandriva), Meego, Red Hat, Slackware, SuSE(OpenSuSE), Ubuntu(Xubuntu), and Yellow Dog, etc.<br>*****Kernel 3.15 upward. | | |

1. We highly recommend that you use the latest Service Pack with all Windows 7 OS.
2. Digitizer input to Windows refers to touch digitizer as opposed to touch stylus in tablet Pcs.
3. Set as default by Microsoft.

# 5. Operation

Note: The control button described in this section is mainly on the remote control unless specified otherwise.

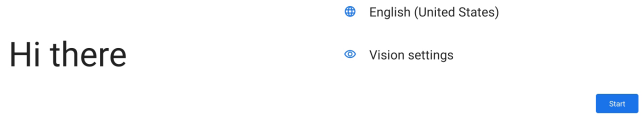
## 5.1. Watch the Connected Video Source

1. Press the [⏎] **SOURCE** button.
2. Press arrow buttons to select a device, then press [Enter] button.

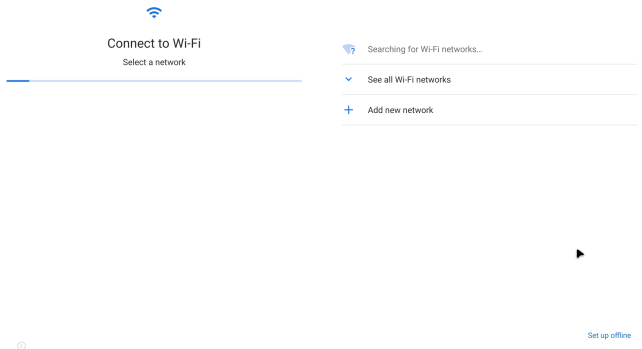
## 5.2. Google Out-of-Box Experience

The new setup wizard contains below steps:

- **Welcome page**: You can select the language settings and vision settings on this page, then click the “Start” button to begin using the application.

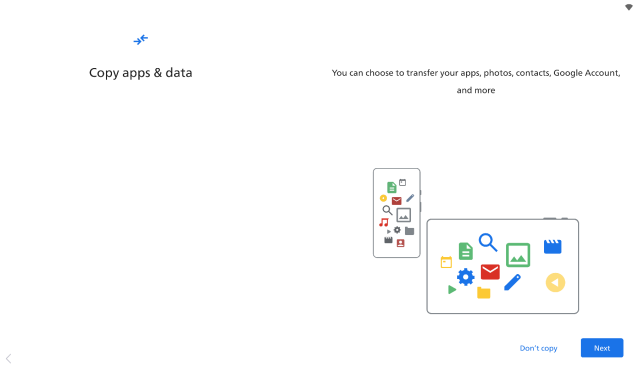



- **Network settings**: You can choose to connect to the network or skip without connecting.

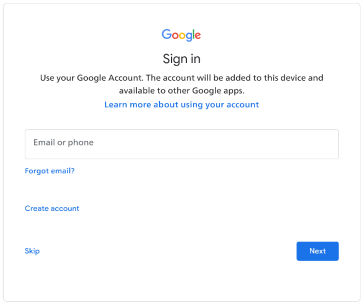



**Note:** To access the full Google experience (Gmail, Play Store, and more), you must connect to the internet and sign in to a Google Account. Skipping network setup will redirect to Google Services configuration.

- **Copy apps & data:** You can choose to transfer your apps, photos, contacts, Google account, and more.

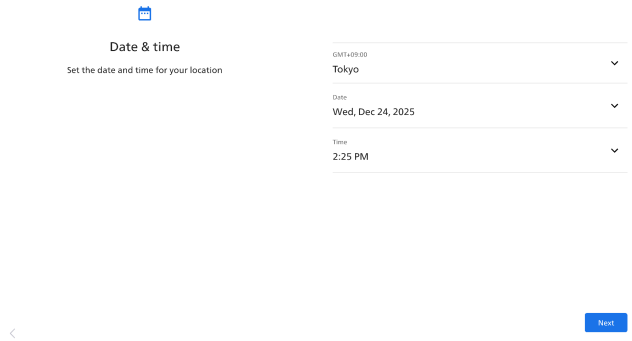



- **Google Account**: Sign in with a Google account, or tap “Skip“ to continue without signing in.

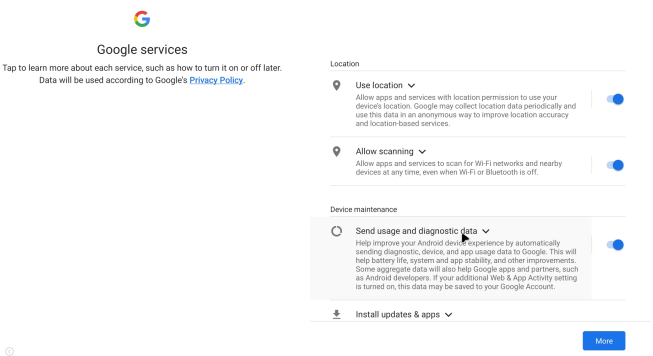



**Note:** After signing in, your account information will be automatically synced to all Google apps on this device.

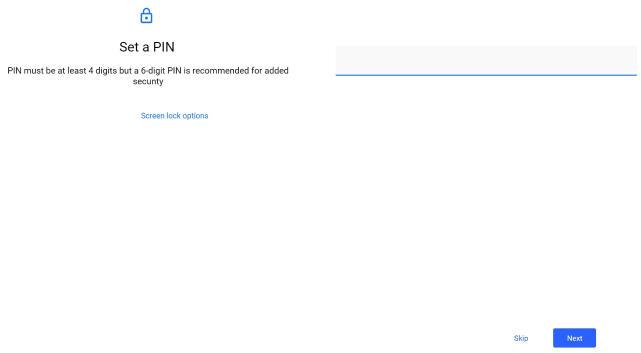
- **Date & Time:** Time zone and date/time can be set manually or automatically.



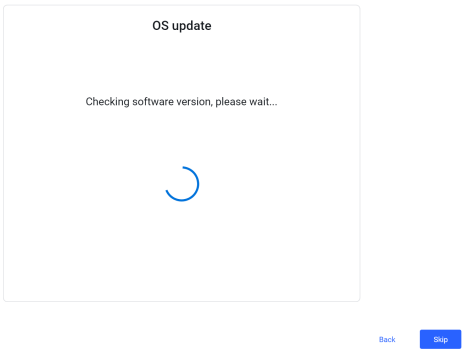

- **Google service settings**: You can enable or disable these Google services based on your needs.



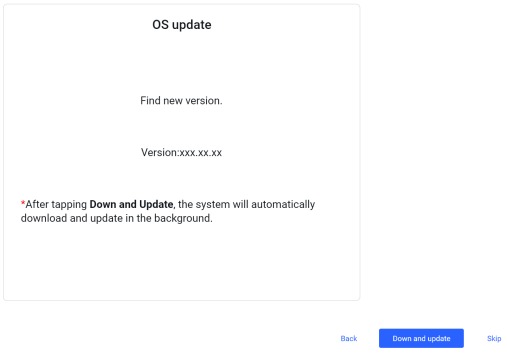
- **PIN code setting:** You can set up a lock screen PIN or skip without setting one up.



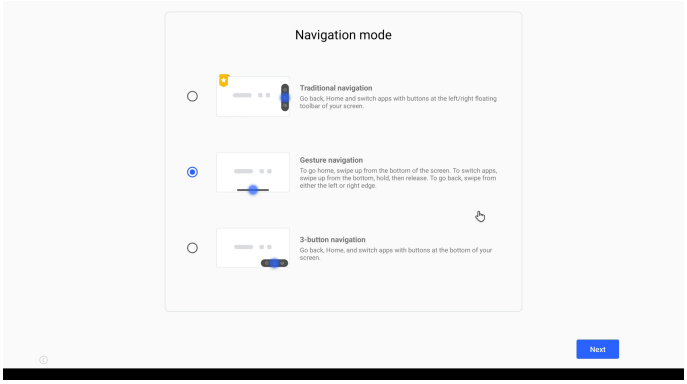

- **OS update:** You can choose to wait for the system to detect and upgrade to the new version, or skip the upgrade.



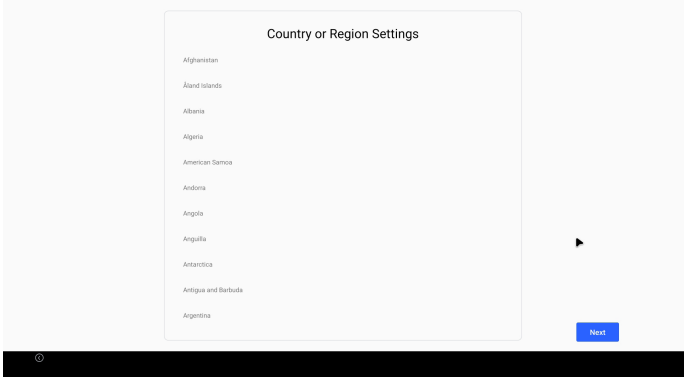

If a new version is detected, you can choose to download and upgrade automatically in the background, or skip the upgrade.



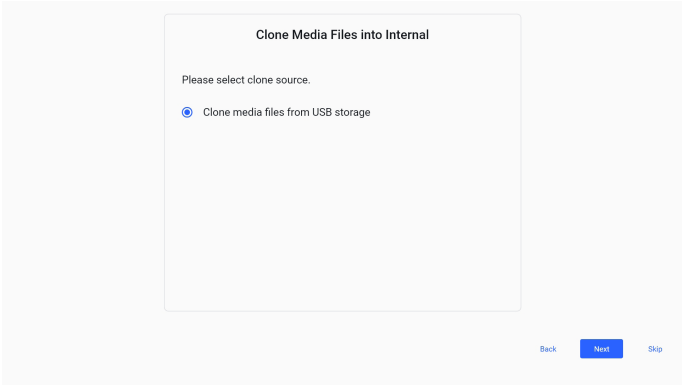

- **Navigation mode:** You can choose your preferred navigation mode: Traditional, Gesture, or 3-button.



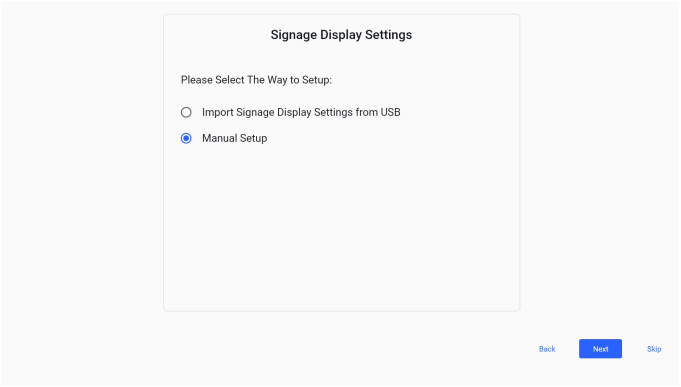

- **Country or region setting:** You can select your country or region.



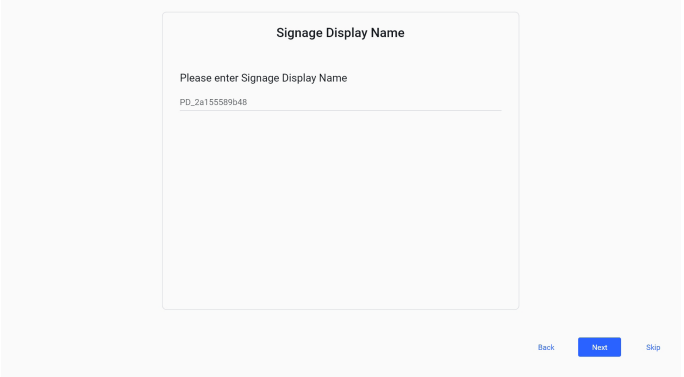

- **Clone media file into internal:** You can clone multimedia files from another machine to this device.



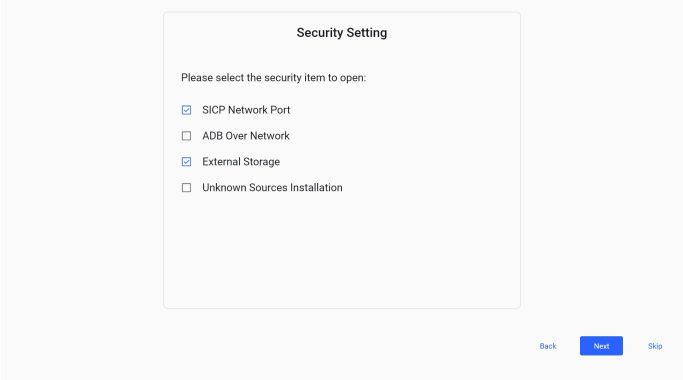

- **Signage display setting:** You can import signage display settings from other devices to this machine or configure them manually.



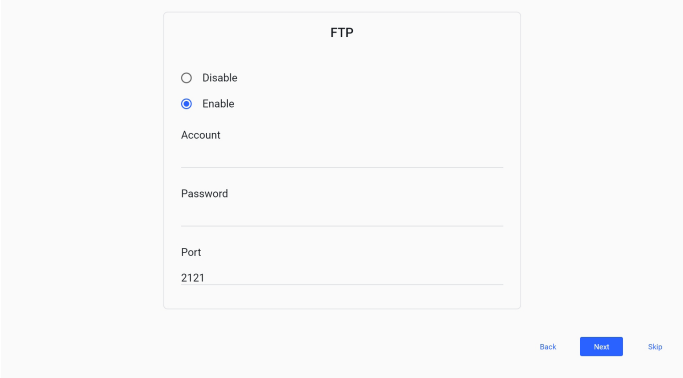

- **Signage display name:** Set device name.



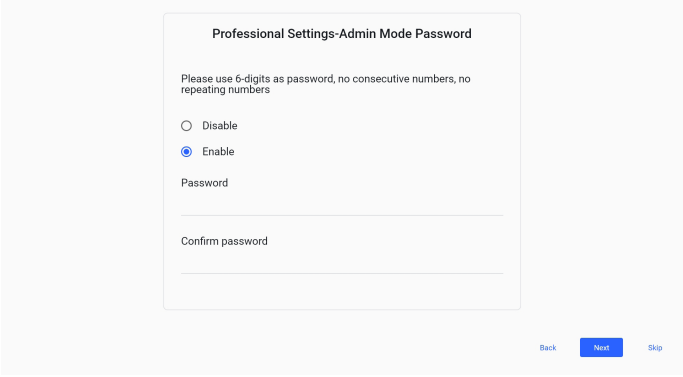
- **Security setting:** You can select security options to enable.



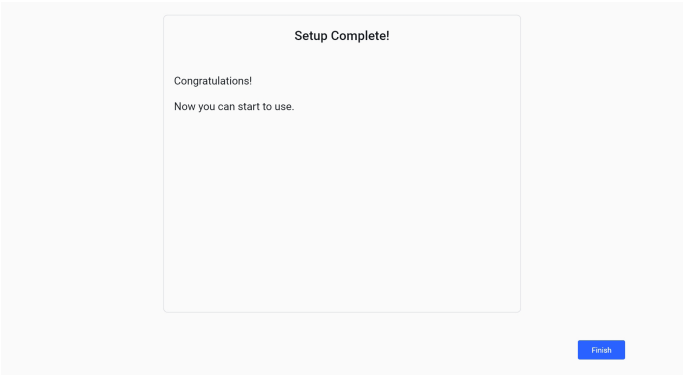

- **FTP:** Enable or disable the FTP (File Transfer Protocol).




- **Professional setting-admin mode password:** You can configure the Professional Settings admin mode password, or leave it unset.

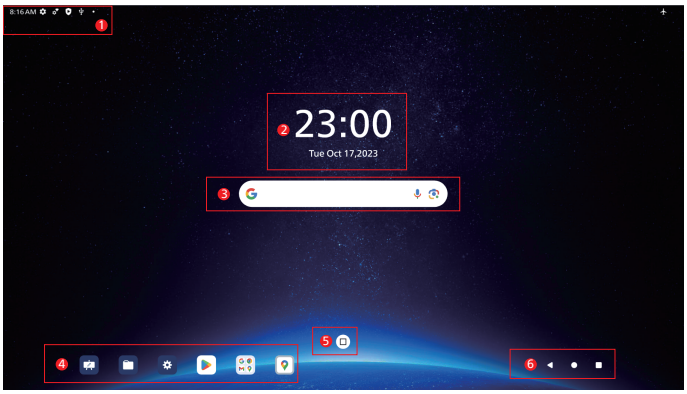



- **Setup complete:** Finish Setup.




## 5.3. Launcher and Navigation

### 5.3.1. Launcher Layout




① **Status Bar:** Displays the network connection status and other system indicators.

② **Time & Date Widget:** Tap to open the date and time settings.

③ **Google Search Bar:** Enter keywords to search for information on Google.

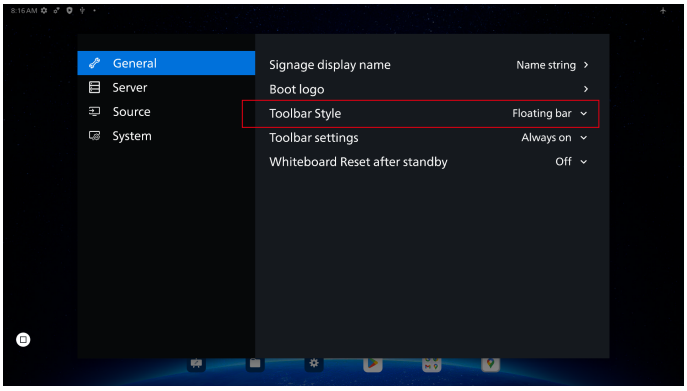
④ **App Icons & Google Apps Folder:** Provides quick access to installed applications, such as Whiteboard, File Manager, Settings, and Google Play Store.

⑤ **Floating bar:** Tap to open Small Tools and the Control Panel.

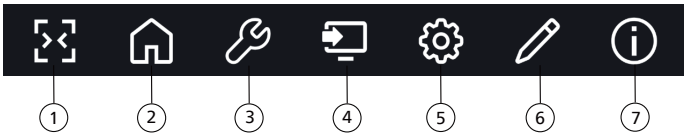
⑥ **Navigation:** 3-button navigation.

### 5.3.2. Floating Bar

In **Professional Settings > General > Toolbar Style,** select **Floating bar**.



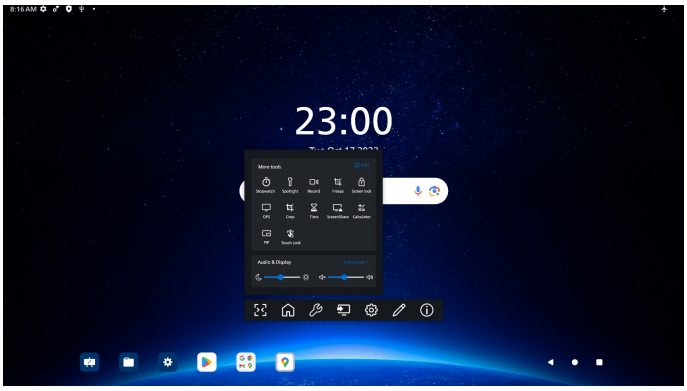

Tap the floating button ⊡ to expand the floating bar. You can drag the button to any position on the screen by long-pressing it.



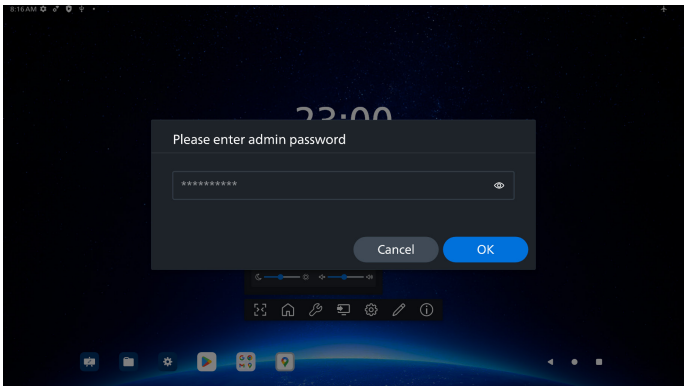
① **Minimize:** Minimize the bar.

② **Home:** Return to the Home page.

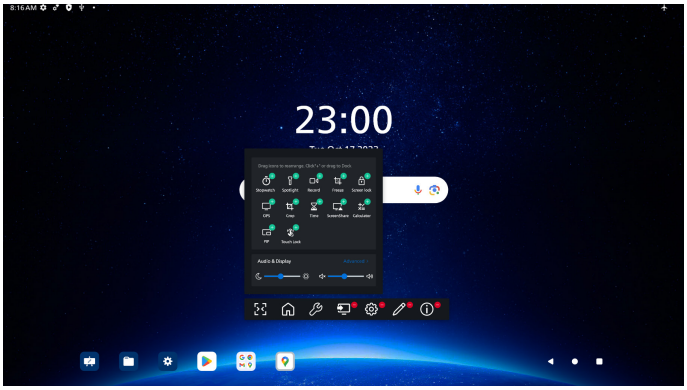
③ **More:** Access additional tools for quick functions and adjust audio and display settings.

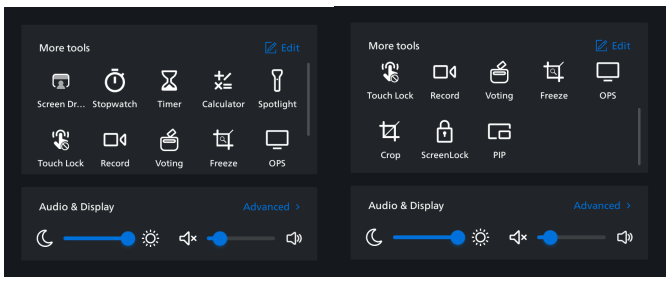



**Note**: If an admin password is set, you must enter it to go to **More** page.

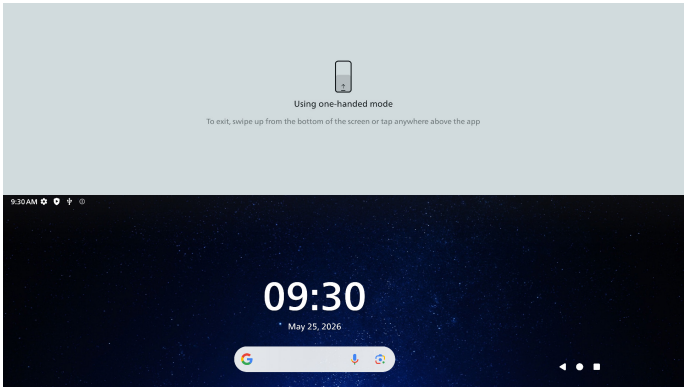



In the **More Tools** menu, tap **Edit** or long press on any tool icon to activate edit mode. In **Edit** mode, you can drag to change the order of tools or add up to 4 tools to the floating bar.

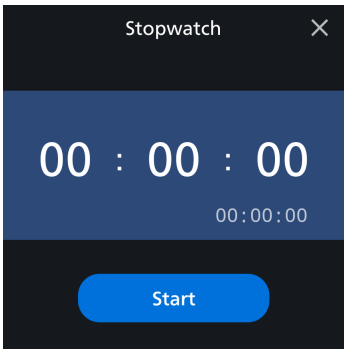


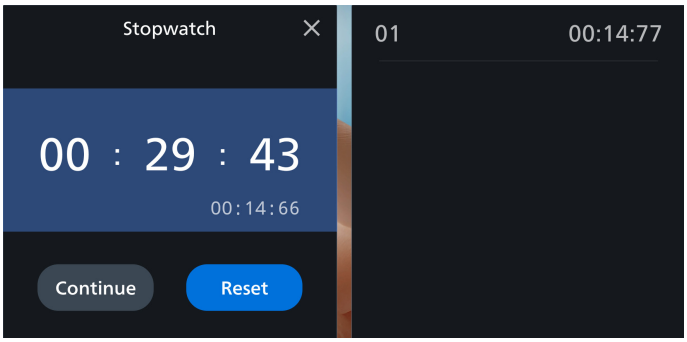




**Screen Drop**: Tap to lower the screen. To exit, swipe up from the bottom of the screen or tap anywhere above the lowered screen.




**Stopwatch**: Tap to access **Stopwatch** which counts upward from zero to measure elapsed time.



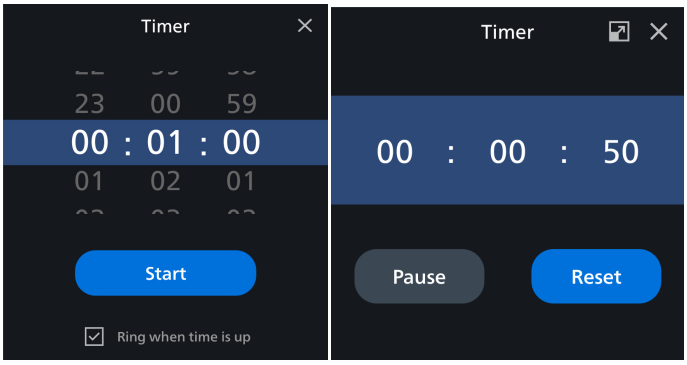

Start: Start the stopwatch from 00:00:00.

Pause: Pause the stopwatch.

Laps: Record and display multiple time intervals.

Reset: Reset the stopwatch to 00:00:00.

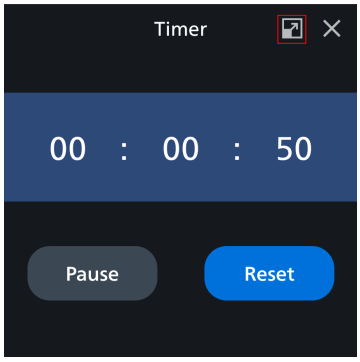
**Timer**: Tap to access **Timer** which starts counting down from a specified time.

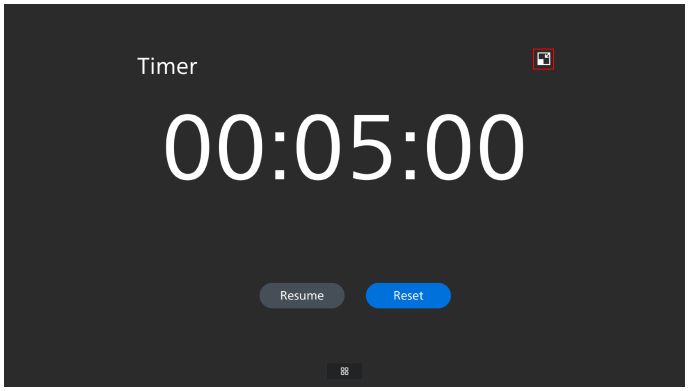


Start: Start the timer.

Pause: Pause the timer.

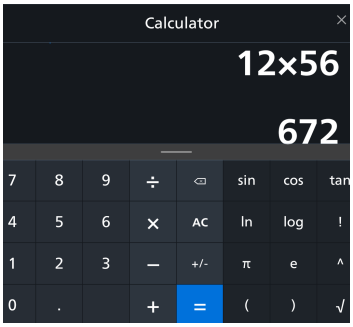
Full Screen: Tap to expand the window to full screen. Tap again to reduce it to its original size.



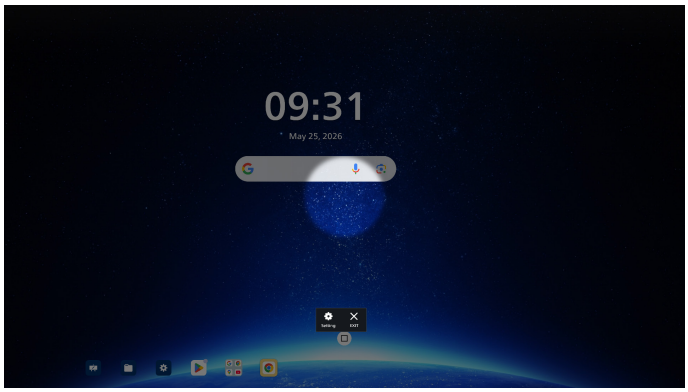




Reset: Reset the timer to the preset value.

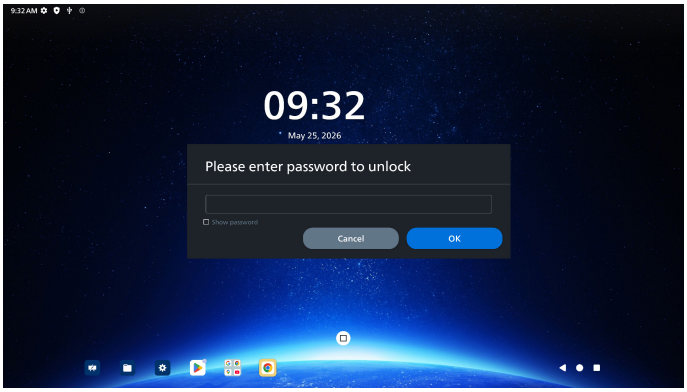
**Calculator**: Tap to access the calculator for simple calculations.



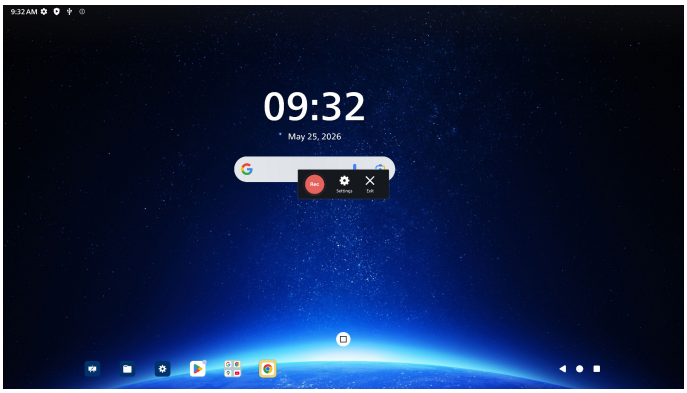

**Spotlight**: Tap to focus on specific areas of the screen. Tap or drag the spotlight to move it.



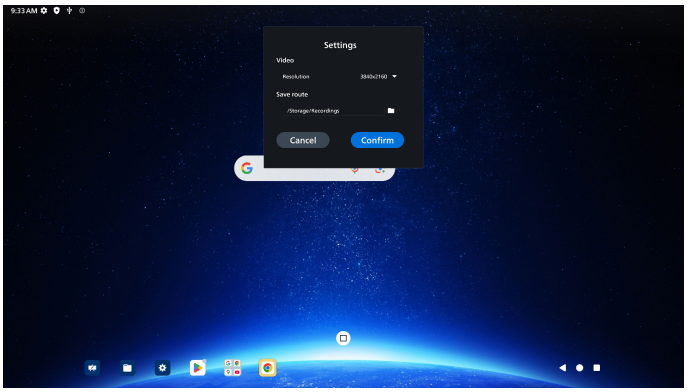

**Touch lock**: Tap to lock the touch. To unlock it, you need to enter default password: 123.



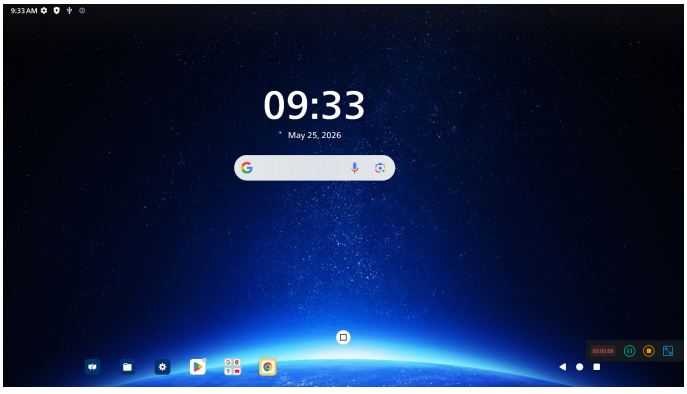

**Record**: Tap to record all operations on the entire screen.



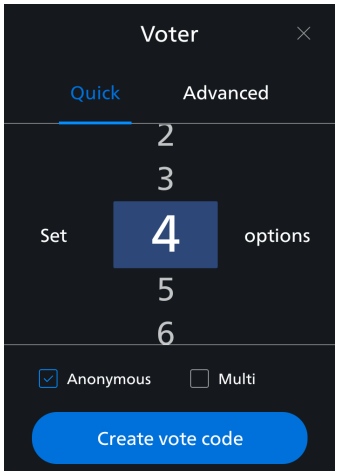

Before recording, you can set the video resolution and save path.



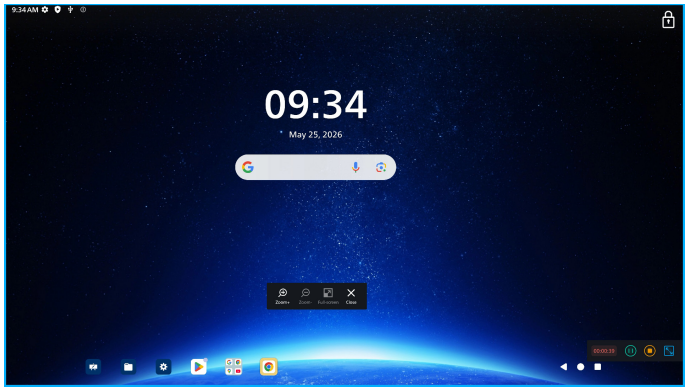

Tap the red “Rec” button to start recording. You can pause or stop the recording from the control bar in the bottom-right corner, and the recording file will be saved automatically.



**Voting**: Tap to set voting options. After configuration, tap "Create Vote Code" to generate a QR code for voting.

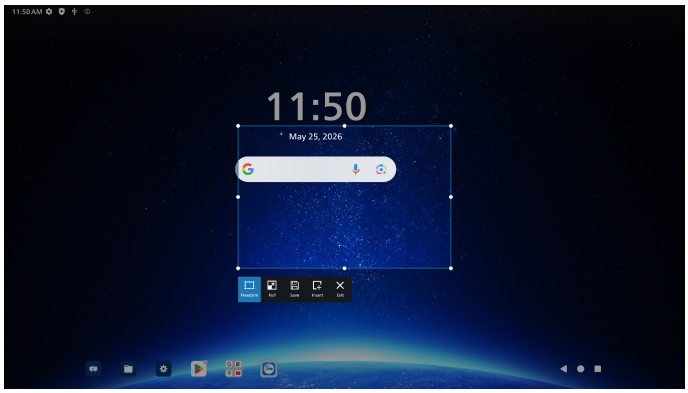



**Freeze**: Tap to freeze and zoom the current screen content.




**OPS**: Tap to open the OPS source .

**Crop**: Tap to crop current content screen.



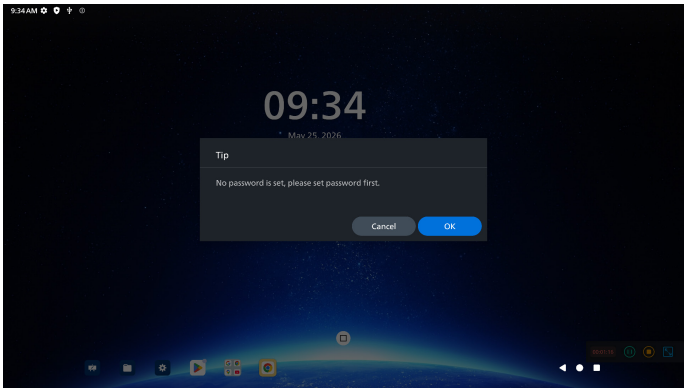

Freedom: Drag the highlighted point to move and adjust the crop area and window size.

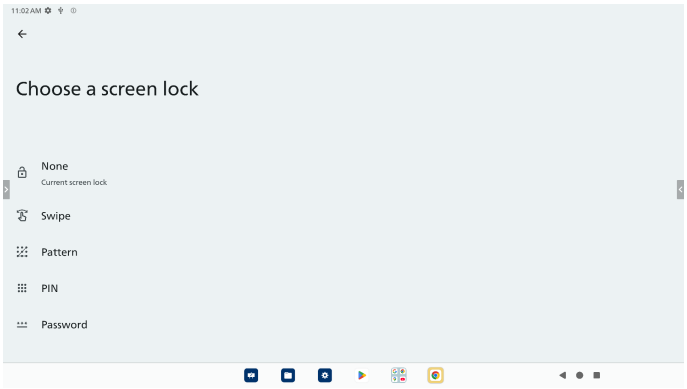
Full: Switch the capture area to full screen.

Save: Save the screenshot.

Insert: Insert the screenshot into the Whiteboard.

**ScreenLock**: Tap to lock the screen. If no screen lock is set, tap **OK** to open Android settings and set a screen lock.




After setup, you need to authenticate to unlock the screen.

**PIP**: Tap to go to Picture-in-Picture window. You can switch between different content sources and preview their screens.



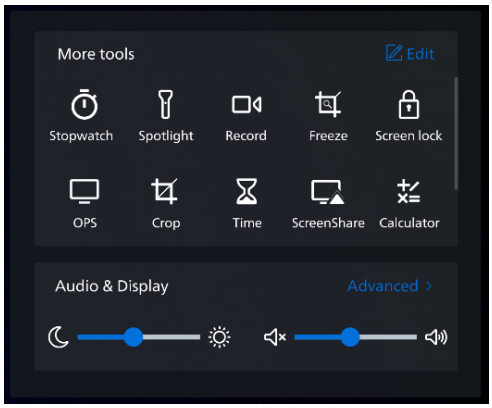
Touch: Enable or disable touch operation in the PIP window.

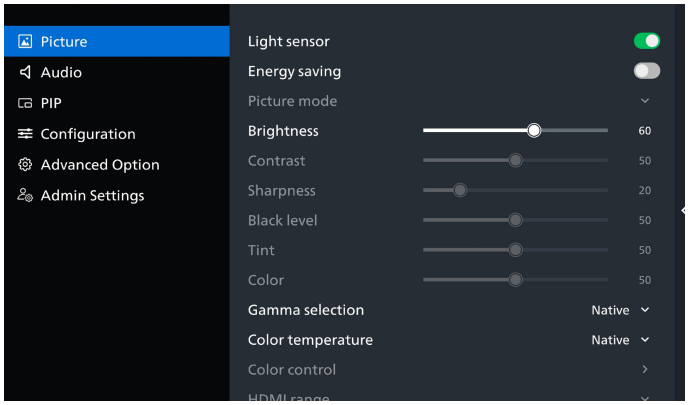
Size: Adjust the size of the PIP window.

Sound: Adjust the volume of the selected source.

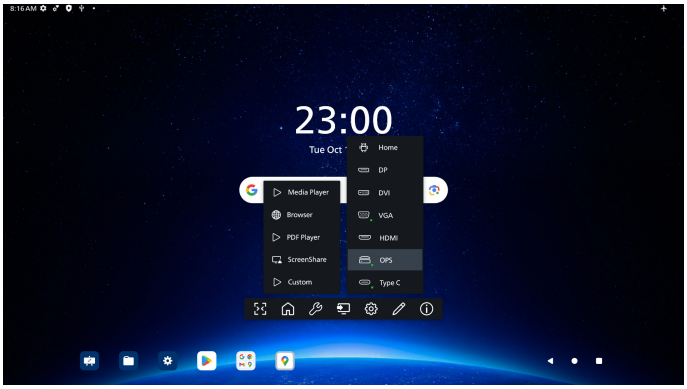
Enter: Switch to the selected source.

**Audio & Display**: Adjust brightness and volume by dragging the dot on control bar, tap **Advanced** to enter Professional settings.




④ **Input:** Access external sources, such as HDMI, Type-C, DP, and VGA.



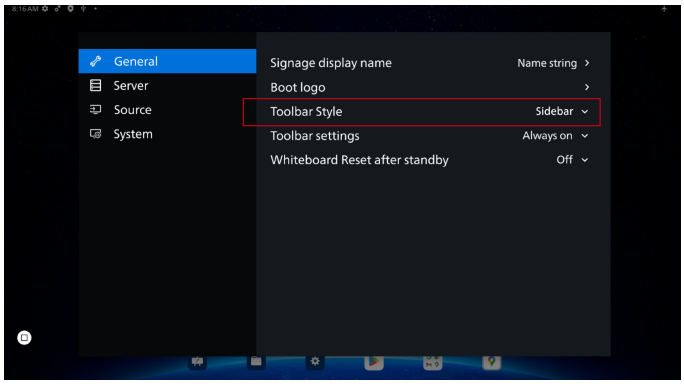

⑤ **Professional Settings**: Access Professional Settings to adjust options as needed.

⑥ **Mark**: Access annotation features to write, draw and sketch on the screen.

⑦ **Info**: View time, network and device information.

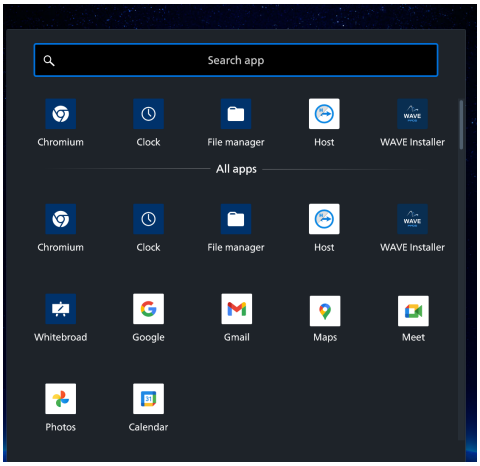
## 5.3.3. Sidebar

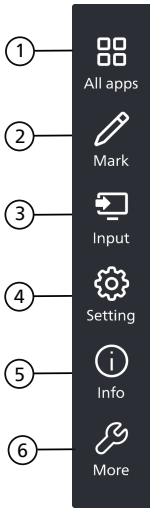
In **Professional Settings** > **General** > **Toolbar Style,** select **Sidebar**.




Tap the side icon to open the side bar.

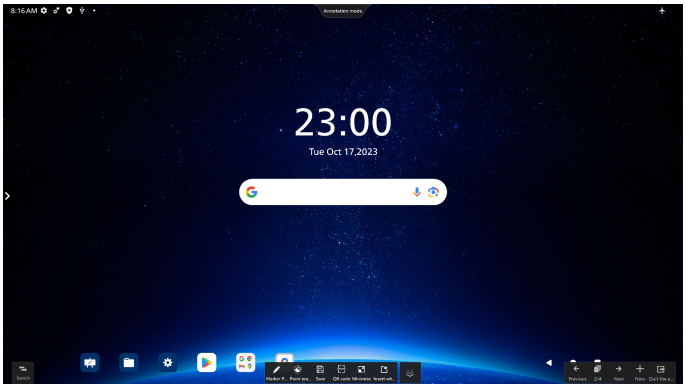
① **All apps**: Access all apps installed on the device.



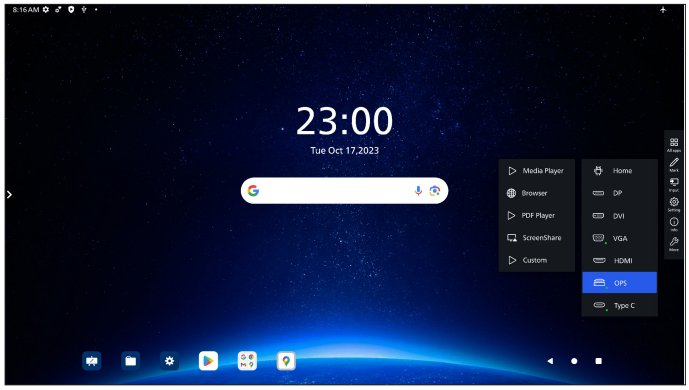




② **Mark**: Access annotation features to write, draw and sketch on the screen.

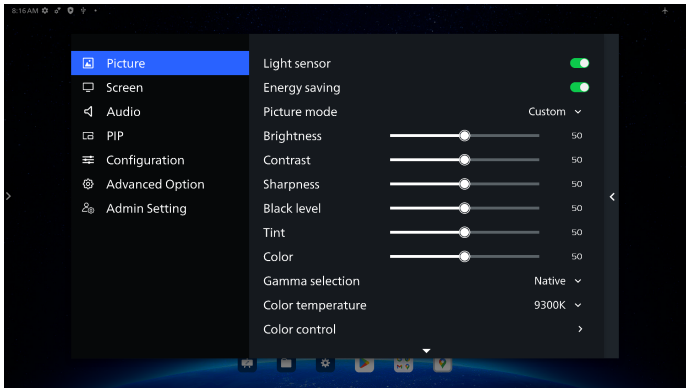
**Annotation mode** can be activated in any interface, supporting multi-page annotations, allowing you to record fleeting inspirations at any time. You can freely write, draw, and sketch.



③ **Input**: Access external sources, such as HDMI, Type-C, DP, and VGA.

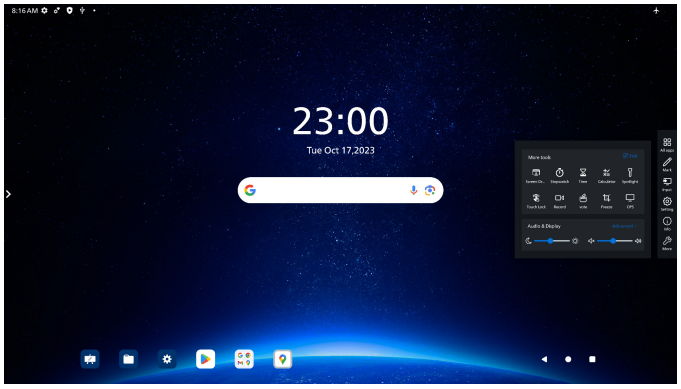



④ **Setting**: Access Professional Settings to adjust options as needed.

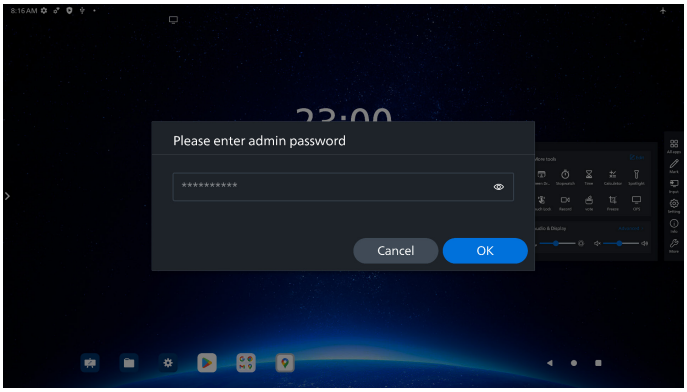



⑤ **Info**: View time, network and device information.

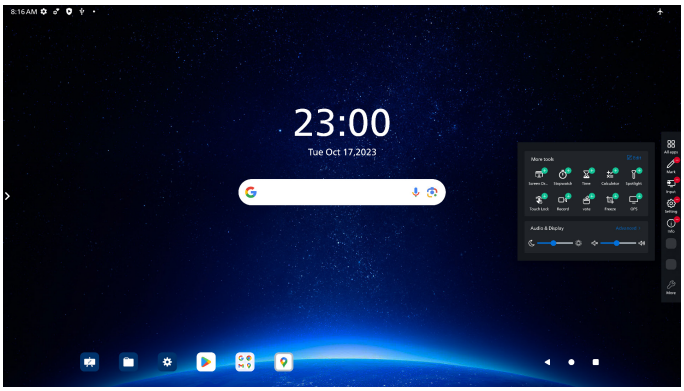
⑥ **More**: Access additional tools for quick functions and adjust audio and display settings.




**Note:** If an admin password is set, you must enter it to go to **More** page.

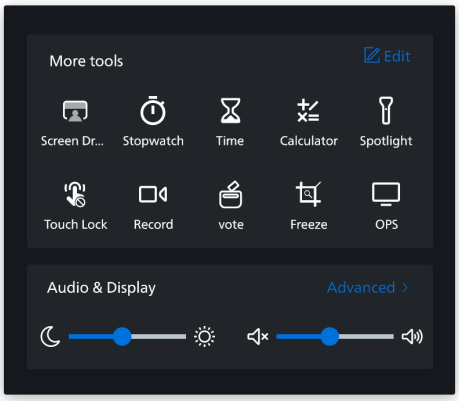


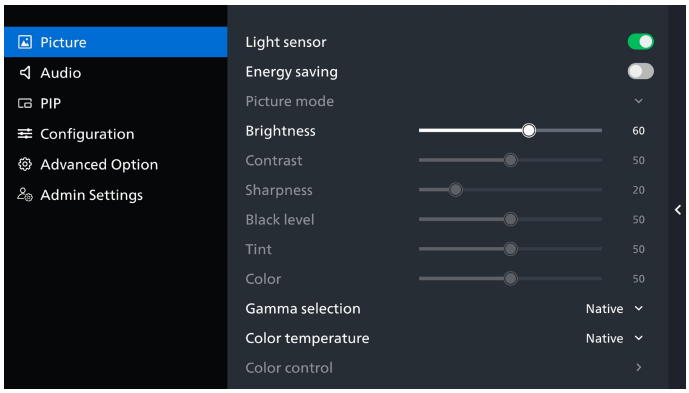

**More Tools**: In the **More Tools** menu, tap **Edit** or long press on any tool icon to activate edit mode. In edit mode, you can drag to change the order of tools or add up to 4 tools to the sidebar.




**Note:** For more information about "More Tools", please refer to the **Floating Bar** section.

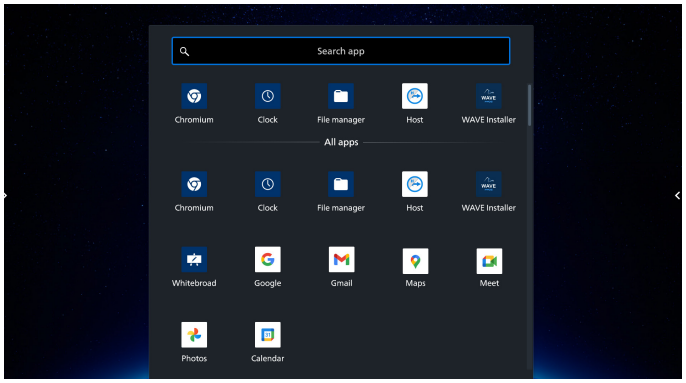
**Audio & Display**: Adjust brightness and volume by dragging the dot on control bar, tap **Advanced** to enter Professional settings.





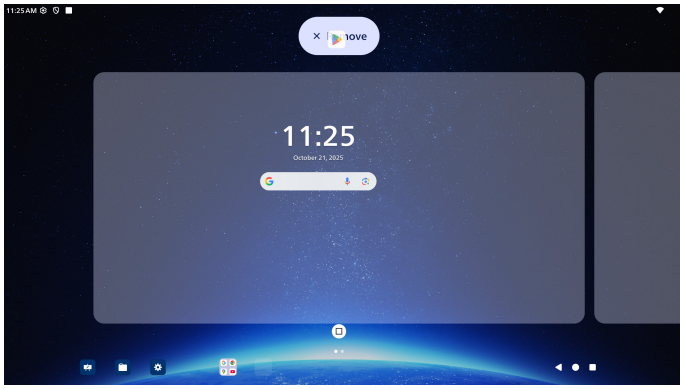

## 5.3.4. All Apps

Tap **All apps** icon or swipe up from anywhere in launcher to call up **All apps** menu.



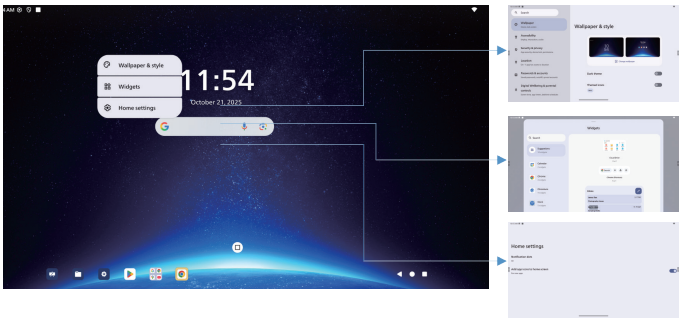

You can add any app icon to launcher by long pressing the icon in all apps menu, drag the icon and place it in desired place in launcher.

Also, you can move the added icon or apps folder by long pressing it and dragging it to desired place in launcher.

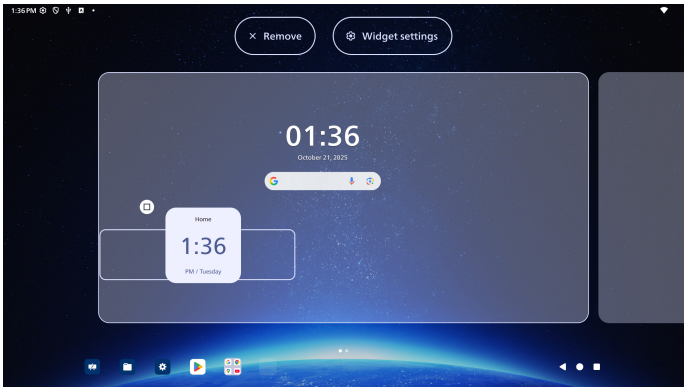



## 5.3.5. Quick Operation

Long press on the blank space in launcher to call up the launcher menu. In the launcher menu you can change wallpaper and style, add new widgets to launcher and change launcher settings.

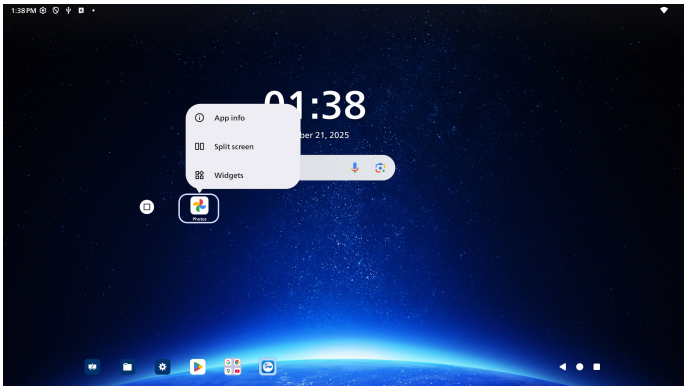



Long press and drag the app icon or widget to “remove” button to get the item removed from launcher.

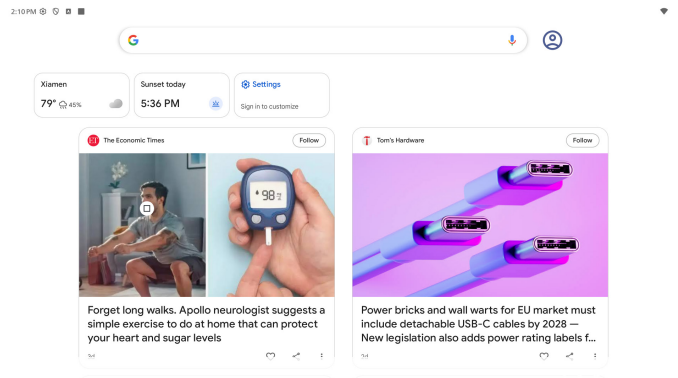



Long press on app icon to call up the app menu, including below elements:

- Get app info
- Split screen (left or right)
- Widgets




Swipe right on the home screen to open the Google Discover feature.



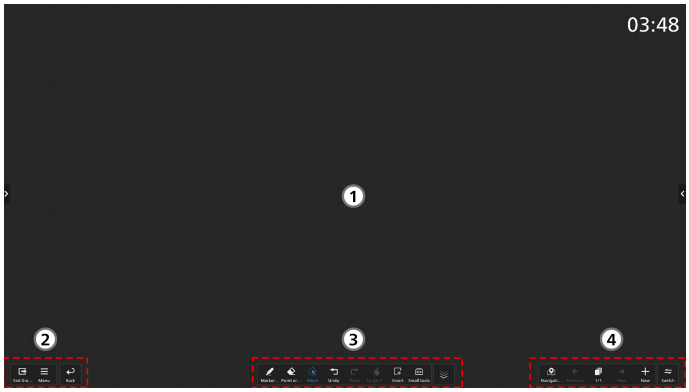
## 5.4. Whiteboard

Please note: Contents below are subject to change. It depends on installed whiteboard firmware version.

### 5.4.1. Main Page

The whiteboard page is mainly divided into four sections:

- Whiteboard canvas workplace;
- Whiteboard menu bar;
- Whiteboard toolbar;
- Page management bar.



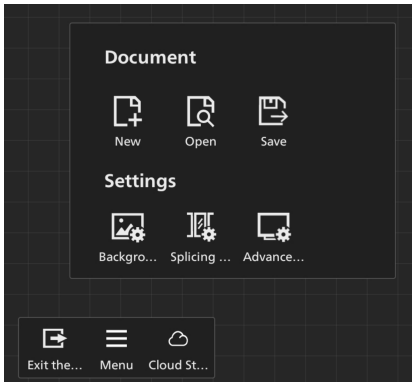

### 5.4.2. Whiteboard Canvas Workplace

Whiteboard canvas Workplace is your interactive digital workspace for brainstorming and visual content creation.

You can write, draw, insert media, and organize ideas on an infinite canvas. With annotation tools and seamless file integration, you can efficiently structure your ideas and enhance your workflow across devices.

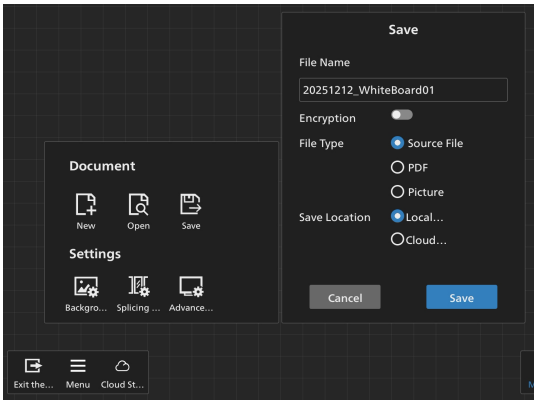
### 5.4.3. Whiteboard Menu Bar

Click the "Menu" icon on the bottom left to open the menu.

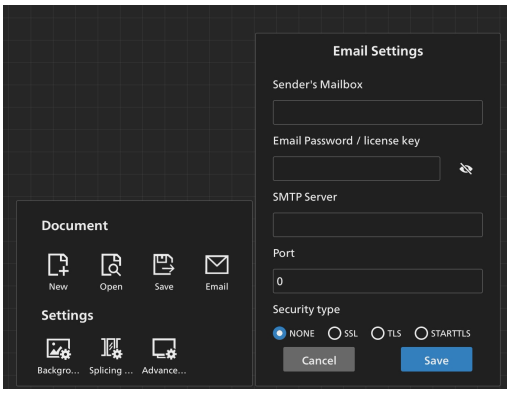



**Document**

- **New:** Click the icon to create a new whiteboard file.
- **Open:** Click the icon to open the file manager, navigate to the whiteboard folder, and select a file to open.
- **Save:** Click the icon to save the file locally by default, or change the save location to a USB drive.




- **Email**: Click the icon to send files via email. By default, the public sender email address is used. To use a custom sender email, you need to configure the sender's email address, password/authorization code, SMTP server address, port number, and encryption method. The system supports sending to up to 10 recipients at once.




- **Custom email settings**: Enter the sender's email, password/authorization code, SMTP server address, port, and encryption method to configure the settings.
- **QR Code**: Click the icon to generate a QR code for mobile devices to scan and download the whiteboard file. The file can be downloaded under the following network conditions:

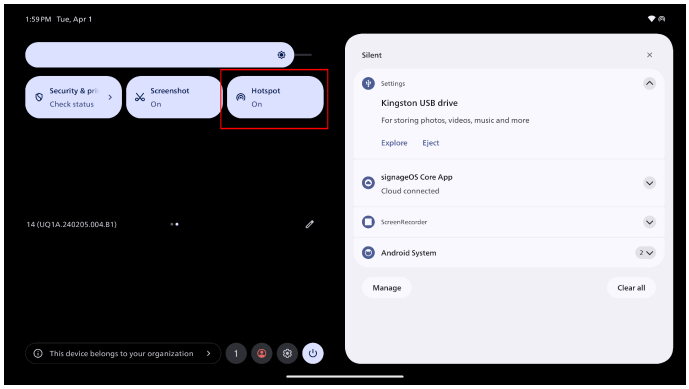
  **Hotspot**: Ensure that the mobile device is connected to the IWB's hotspot.

  **WiFi**: Ensure that both the mobile device and the IWB are connected to the same WiFi network.




- **How to set hotspot**: When you pull down the status bar from the top of the screen, tapping the "Hotspot" icon will toggle it on/off. A long-press on the icon will navigate to the "Wi-Fi Hotspot" settings page in

Android system settings, where you can view the hotspot password.

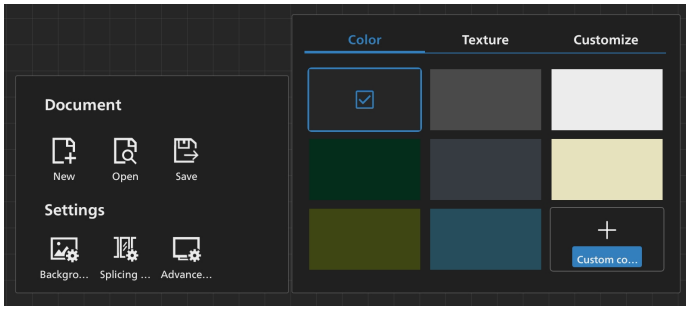



- **Print:** Click the icon to generate a print file and open the preview interface. Select a printer and start the printing process.

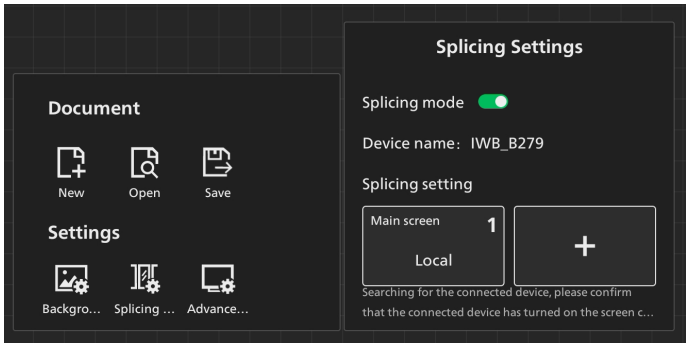
  **Note**: To use the printing function, you may need to install a specific Android printer service app provided by the manufacturer.

**Settings**

- **Background**: Click the icon to set the whiteboard color and texture, and customize the background as desired.




- **Splicing settings**: Click the icon to access splicing settings.



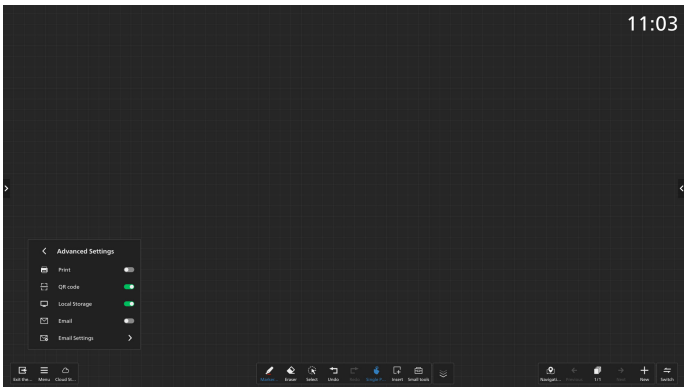

**Enable whiteboard screen connection:** Turn on the splicing mode and click the "+" icon to automatically detect other IWB devices running in the current IP domain. The system will retrieve the PD name and display a list of available devices. You can select up to two devices to add as secondary screens for splicing, and they will be proportionally displayed on the main screen. When a device is added, a notification will be sent to the secondary screen, allowing you to decide whether to join. Alternatively, you can manually enter the IP address to add the device.

**Delete secondary screen**: Long press and select the secondary screen. Then, drag it to the delete button area to remove the secondary screen. Note that the main screen cannot be deleted.

**Adjust the display order of the screen**: Long press the screen diagram and drag it left or right to change the splicing display order. For example, you can adjust the order from 123 to 132.

**Disable the whiteboard screen connection**: Turn off the splicing mode, delete the secondary screen, or exit the whiteboard to disconnect the screen. After disconnecting a secondary screen, its content will automatically return to the main screen. When multiple secondary screens are connected, exiting one will not affect the other.

- **Advanced settings**: Click the icon and then enter the system password to access the advanced settings.




**Print**: When 'Print' mode is turned on, the printing function is enabled. Or, it does not.

**QR code**: When 'QR code' mode is turned on, QR code sharing is enabled. Or, it does not.

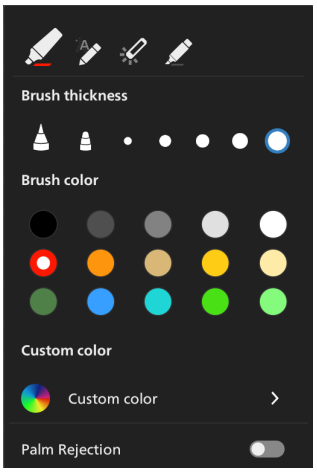
**Local storage**: When 'Local storage' mode is turned on, files can be saved in local storage. Or, it does not.

**Email**: When 'Email' mode is turned on, Email sharing is enabled. Or, it does not.

**Email settings**: click the icon to configure recipient address, subject, and other parameters.

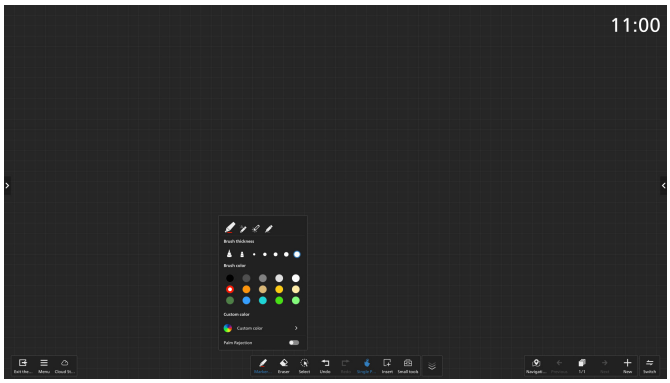
## 5.4.4. Whiteboard Toolbar

- **Marker Pen**: Click the icon to choose different writing types, pen thickness and color, and freely write on the whiteboard.

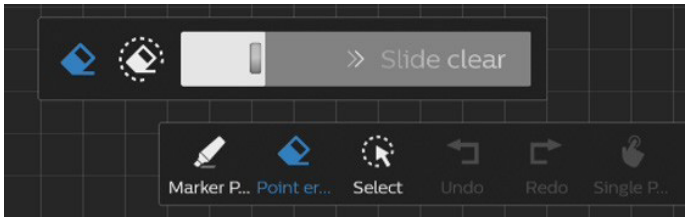


- **Type**: Support Marker Pen, Laser Pen and Highlighter pen.
- **Brush Thickness**: You can switch among different brush thickness options (there are a total of 5 thickness sizes available) for whiting on the whiteboard.
- **Brush Color**: You can switch among different brush colors or customize colors for writing on the whiteboard.
- **Palm Rejection**: Turn on/off palm rejection mode.

  **Note**: When palm rejection is on, this icon will be displayed in the top right corner of the canvas, and the tip selection area will be grayed out.




- **Point Eraser:** Click the icon to select from different erasure modes.



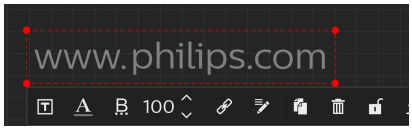

**Point erasing:** Identify the size of the eraser based on the contact area, suitable for small area wiping.

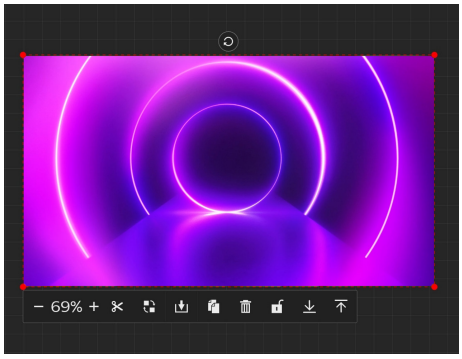
**Circle erasing:** The handwriting or graphics in the circle are erased, suitable for large-scale erasing.

**Slide click**: Swipe right all the way to clear all the content on the current page.

**Hand back eraser**: The back of the hand can be used as an eraser.

- **Select:** Click the icon and then select any element in the canvas to perform operations such as top, bottom, copy, delete, zoom, and move.



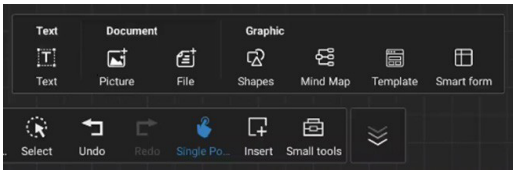




**Operating instructions**

- **Top level:** Place the selected object at the topmost level.
- **Bottom layer:** Place the selected object at the bottom layer.
- **Copy:** Copy and paste the selected object.
- **Delete:** Delete the selected object.
- **Zoom**: Adjust image size.
- **Crop:** Crop image size.
- **Replace:** Replace image.
- **Download:** Download image locally.
- **Lock:** Lock selected object.
- **Font:** Edit font type, size, color, and thickness.
- **Link:** Insert hyperlink URL.

**Note:** After copying an element, long - press the screen to show the paste icon, then tap to paste.

- **Undo:** Click the icon to revoke the most recent operation, supporting up to 50 undo steps.
- **Redo**: Click the icon to restore the previous undo operation, supporting up to 50 steps of redo.
- **Single point/multi-point:** Click the icon to switch the writing mode. Single-point mode supports one writing point and allows multi-finger operations such as zooming and moving the canvas. Multi-point mode supports up to 20 simultaneous writing points.
- **Insert**: Click the icon to bring up the file and graphics panel, where you can insert text, images, documents, shapes, mind maps, templates, and smart tables into the whiteboard.




**Inserting Documents**

**Operating instructions**

- Entrance: Open the whiteboard ->Whiteboard toolbar ->Insert ->Document.
- Retrieve the file manager and select the PDF document.
- Display the progress bar for file conversion and parsing, and insert successfully upon completion of conversion.



**Document operation**

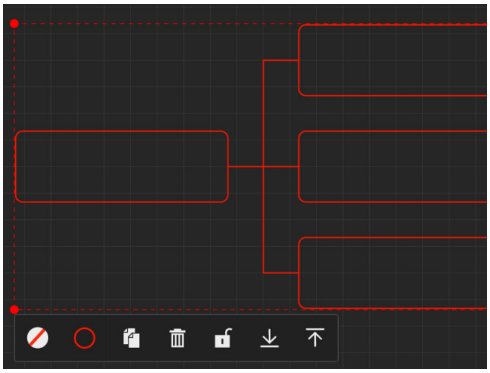
**Adjust Window**: Adjust the window size (default to second level).

- **Screenshot**: Capture document content and insert it into the whiteboard in the form of images.
- **Page number:** Display the current page and total number of pages.
- **Previous page**: Page turning, the icon is grayed out on the first page.
- **Next page**: Page turning, with the icon grayed out on the last page.
- **Close**: Click the X icon to close the document window.
- **Move document window**: Click on the toolbar to drag and move the document window.
- **Full screen**: Display document content in full screen and perform editing operations such as flipping, writing, and erasing.

**Mind Maps**: The whiteboard supports inserting mind maps.

Entry: Open any whiteboard -> Whiteboard Toolbar -> Insert -> Mind Map.

Click on the icon to insert a map graphic, supporting operations such as writing, adding, deleting, and copying. Click on the selected cell and click on the 'Add/Delete' icon on the side to add or delete rows and columns. The cells can be freely written and resized.

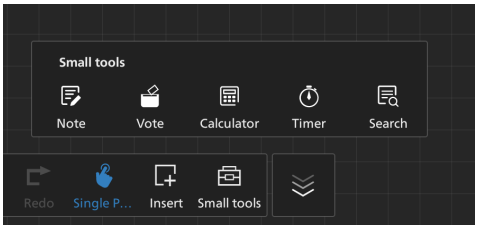


**Smart table**: The whiteboard supports inserting smart tablesEntry: Open any whiteboard ->Whiteboard Toolbar -> Insert -> Smart Table.

The table supports operations such as writing, adding, deleting, and copying. Select the table, click on the 'More' icon in the bottom left corner, and then click on the 'Add/Delete' icon on the side of the table to add or delete rows and columns. It also supports operations such as changing the table color, copying, and deleting.



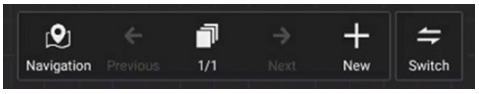
- **Small tools**: Click the icon to bring up gadgets such as Note, Vote, Calculator, Timer and Search for use on current whiteboard page.




- **Hide/show toolbar**: Click the icon to hide or show the whiteboard toolbar.

## 5.4.5. Page Management Bar

Manage Whiteboard Pages where you can perform operations such as creating new pages, switching between them, and previewing whiteboard pages.

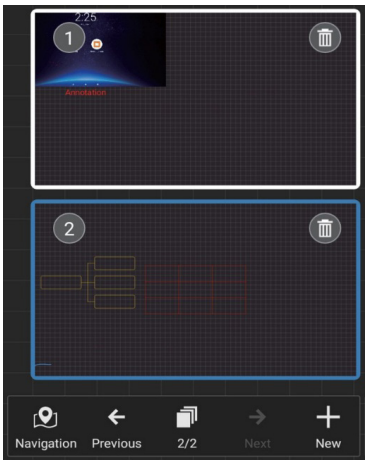



- **Navigation**

  **Navigation preview image display**: Click on the [Navigation] icon below the whiteboard to display a 1:1 thumbnail full canvas preview image, click on other areas to automatically collapse.

  **Canvas positioning jump**: Click on the move visual box on the navigation preview image, and the canvas will automatically position and jump to the corresponding area.

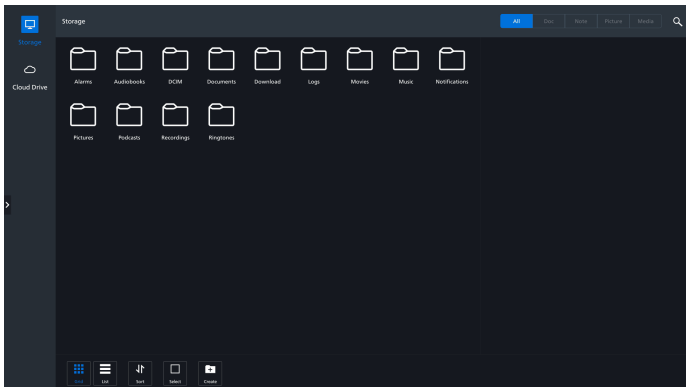
- **Page number**: The current page/total number of pages are displayed. (Click the trash bin to delete this page.) Click the icon to turn to the previous page. The icon will be grayed out when it is on the first page.




- **Next**: Click the icon to turn to the next page. The icon will be grayed out when it is on the last page
- **New**: Click the icon to add a new black page.
- **Switch**: Click the icon to switch to the previous/next page to, or select any page in the preview.

## 5.5. File Management

Manage local files and files on the USB drive.




You can browse resources stored in the local storage according to category, including document, whiteboard writing (pages saved by the white board and quick screen shot), video, picture, and audio.




- **Grid**: The resources are displayed in the form of icon by default.
- **List**: The resources are displayed in the form of detailed information.
- **Sort**: You can order the resources according to the name, type, size, and time.
- **Select**: You can select resources as required.
- **Create**: You can create a new folder under the current directory.
- **Copy**: You can copy the currently selected resource.
- **Paste**: You can execute the pasting operation.
- **Cut**: You can cut the currently selected resource.
- **Delete**: You can delete the selected resource.
- **Rename**: You can rename the selected resource.
- **Send**: You can send the selected file to the target folder.

## 5.6. Media Player

### 5.6.1. OSD Menu Interaction with Media Player

1. Boot on source:
   - Input:
     - If you select Media player as the source, the system will enter media player automatically after the boot process is completed.
   - Playlist:
     - 0 : go to the main page of media player.
     - 1 - 7: go to media player and playback File1 - File7 of playlist automatically.
2. Schedule:
   - Today
     - Show date and time.
   - 1 - 7:
     - Set up to 7 schedules.
   - On/Off
     - Set start time and end time.
   - Input:
     - Select Media player as the source, the PD will launch the media player automatically at end time.
   - MON, TUE, WED, THU, FRI, SAT,SUN, Every week :
     - Set life cycle.
   - Playlist:
     - 0: go to the main page of media player.
     - 1 - 7: go to media player and playback File1 - File7 of the playlist automatically.
   - Clear all

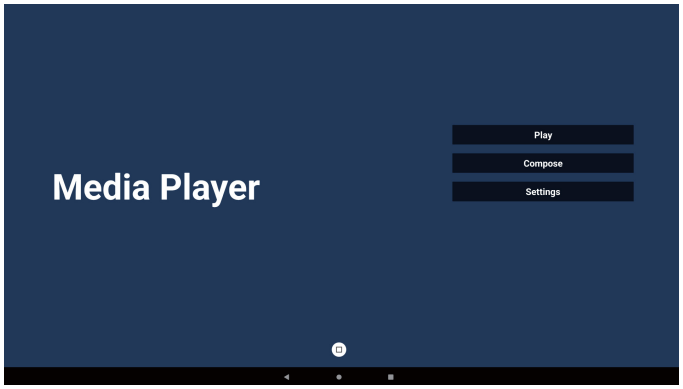
### 5.6.2. Media Player introduction

1. Main page of Media Player app, this App consists of three items: “Play”, “compose” and “Settings”.

   Play: Select a playlist to play. compose: edit playlist.

   Settings: Set the properties of Media Player.

   Settings: Set play properties.




2. Select “Play” on the main page, first you should choose one playlist to play between FILE 1 and FILE 7.
   The pencil icon means that the playlist contains the content.



3. Select “Compose” on the main page, first you should select one playlist to edit between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.

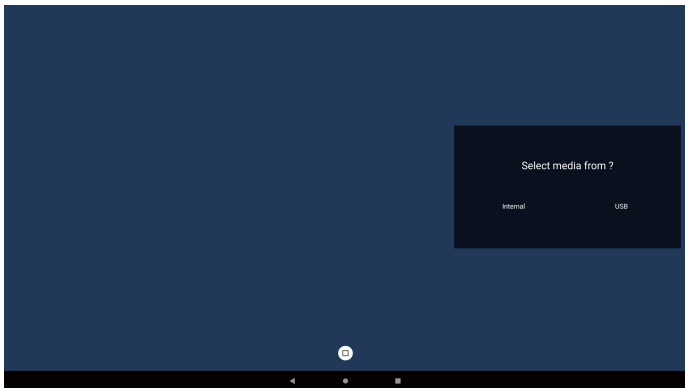



4. If an empty playlist is selected, the App will guide you through selecting the media source.

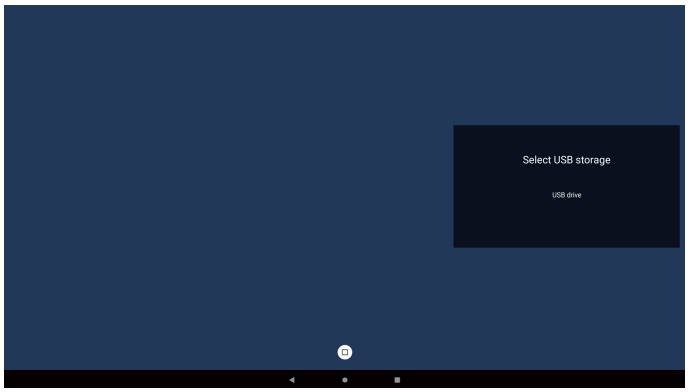
   All media files should be stored in /philips/ of root directory.

   For example,

   videos: {root dir of storage}/philips/video/
   photos: {root dir of storage}/philips/photo/
   music : {root dir of storage}/philips/music/




5. If you select “USB” storage, the app will guide you through selecting the USB device.




6. To edit or delete a non-empty playlist, select the desired playlist that has a pencil icon on right side of the selected file.




7. Once you start to edit a playlist, a menu is displayed as below:

   Source - files in storage.

   Playlist-files in playlist.

   Toolbar - launch slidebar.

   Play- playmedia file.

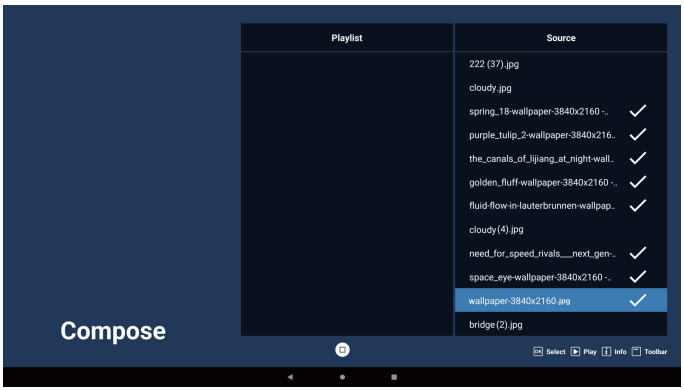
   Info - show media info.

   Touch file - select/deselect a file.

**Note**: When long press on one of the directories in Source, full path will then be displayed.

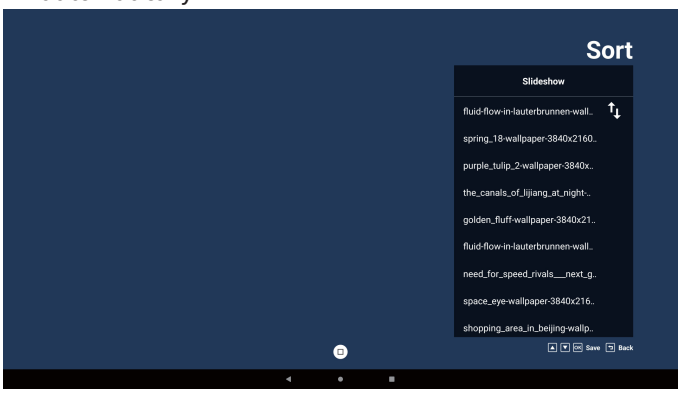



7-1 From the side menu bar, the following functions are available:
- Select all: select all storage files.
- Delete all: delete all playlist files.
- Add/remove: update playlist from source.
- Sort: sort playlist.
- Save/abort: save or abort playlist.
- Back: return to the previous menu.

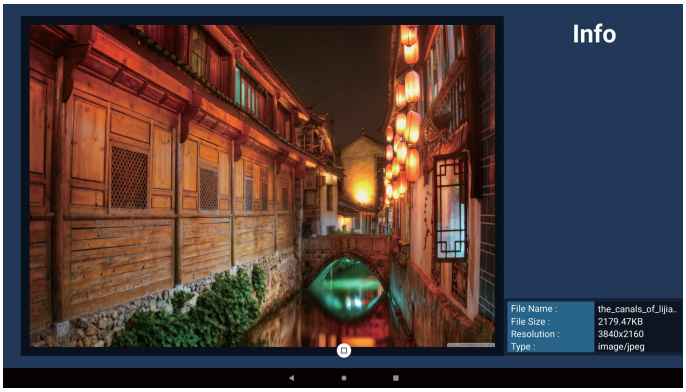


8. If “Sort” is selected, you can customize the file order severally.

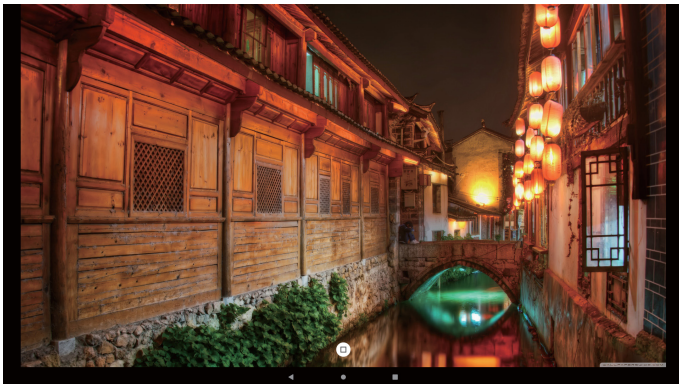
   **Note**: When leaving from this page, all data will be saved automatically



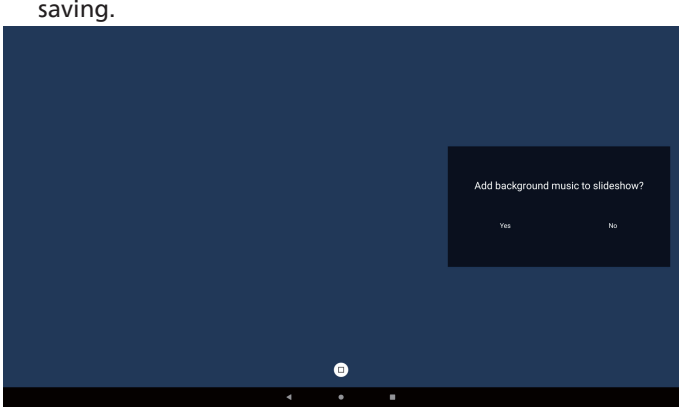

9. After selecting the desired file, press “Info” key to obtain the detailed information.




10. After selecting the desired file, press “Play” key to play the media file immediately.

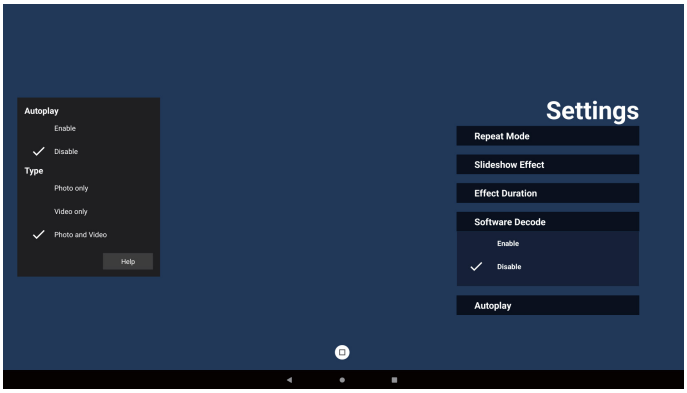


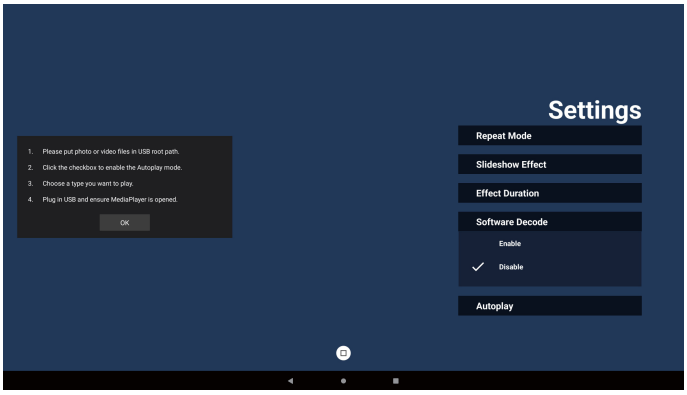
11. If you create a playlist with all image files, you will be asked to add a background music to the slideshow before saving.




12. Select “Settings” on the main page, there are 5 options available: “Repeat Mode”, “Slideshow Effect”, “Effect Duration”, “Software Decode” and “USB Autoplay”.
    **Repeat mode**: set the repeat mode.
    **Slideshow Effect**: photo slideshow effect.
    **Effect Duration**: duration of photo effect.
    **Software Decode**: no black screen between video play.
    **USB Autoplay**: Plug in the USB device and it will play the files from USB root path automatically.



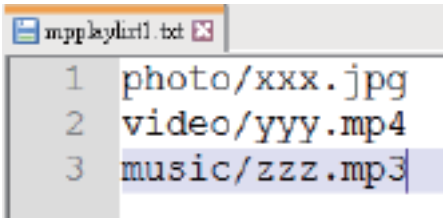
13. Media Player import text file

Step 1. Create media player text file.

- File name: mpplaylistX.txt, “X” means playlist number(1,2,3,4,5,6,7).

Ex. mpplaylist1.txt, mpplaylist2.txt

- Content :




**Note**: If the playlist contains video and music files, the screen becomes black when playing music file.

Step 2. Copy “mpplaylistX.txt” to “philips” folder of internal storage. You may use SFTP to do this.

- File path: /storage/emulated/legacy/philips (for DL, PL)

Ex. /storage/emulated/legacy/philips/mpplaylist1.txt

Step 3. Prepare media files to “photo”, “video” and “music” folder under “philips” folder, internal storage only.

- Ex. /storage/emulated/legacy/philips/photo/xxx.jpg
  /storage/emulated/legacy/philips/video/yyy.mp4
  /storage/emulated/legacy/philips/photo/zzz.mp3

Step 4. Start media player app, it will automatically import media player text file.

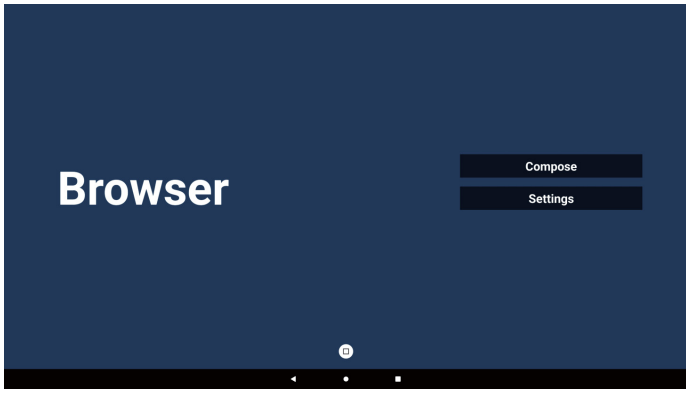
**Note**: Once the playlist file (text) is imported, if you change playlist via remote control, this change will not be reflected in the playlist text file.

## 5.7. Browser

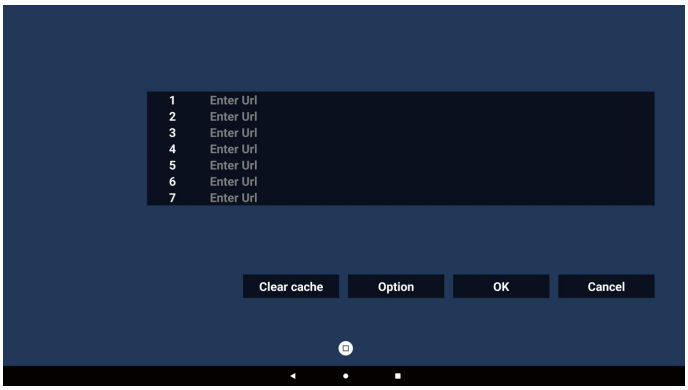
### 5.7.1. Brower Introduction

Before using this feature, ensure that the system is connected successfully to the network.

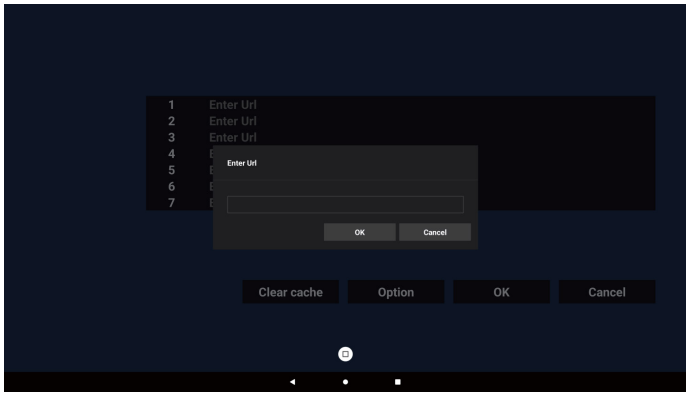
1. Main page of “Browser” App which allows you to make related settings.

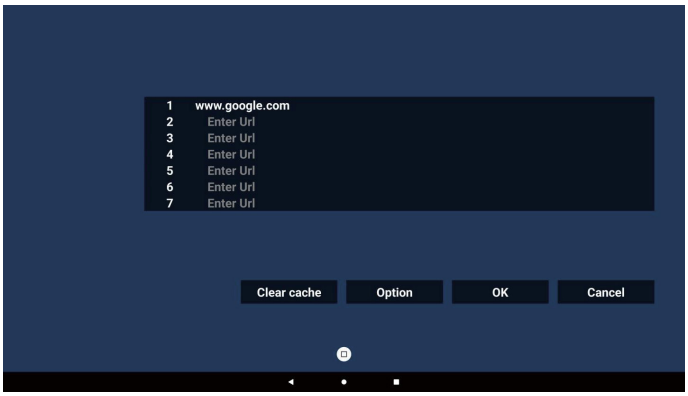



2. Press “Compose” then enter the next page.
   You can choose between 1~7.
   A dialog box appears after the selection is made.

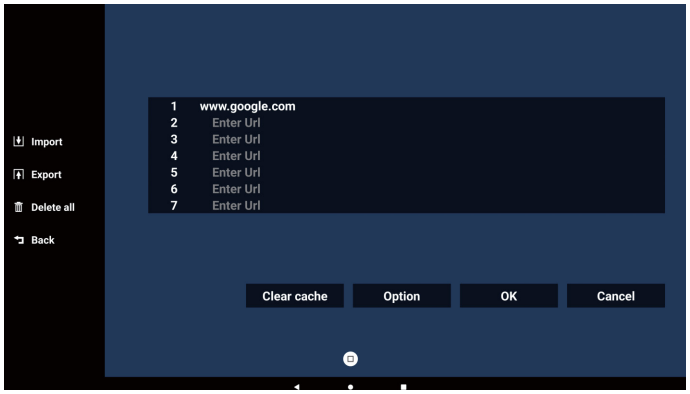



3. Enter URL and press the OK button, the data will be saved in the List



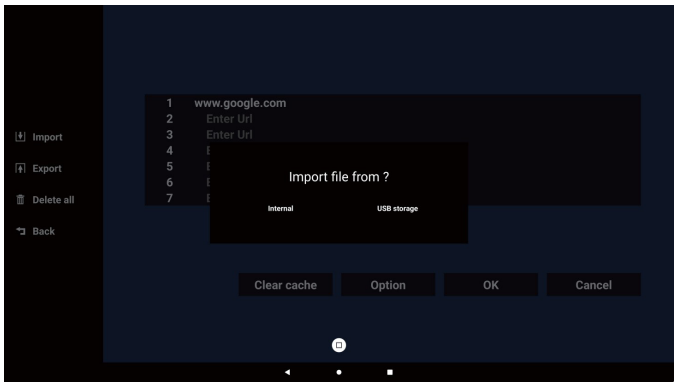




4. Press “Option” and a list will appear on the left side.
   Import: Import the file of URL list.
   Export: Export the file of URL list.
   Delete all: Delete all URL records from the main screen .
   Back: Close the side menu bar.

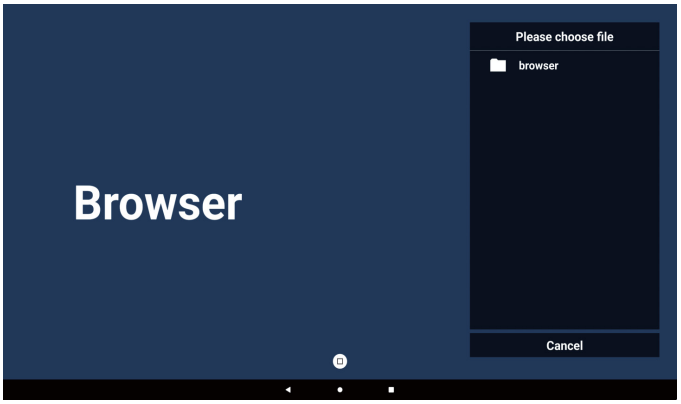


4.1 Import

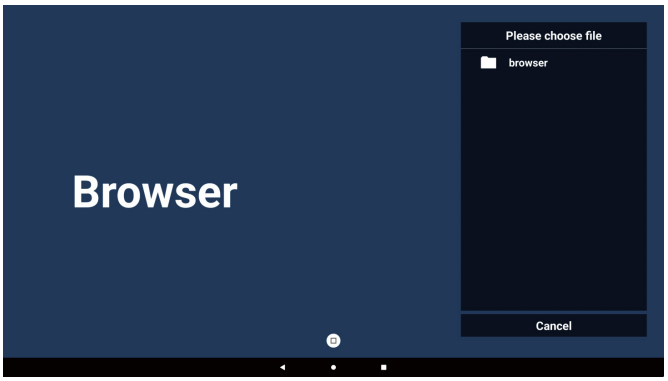
a. Select the storage from which the file will be imported.



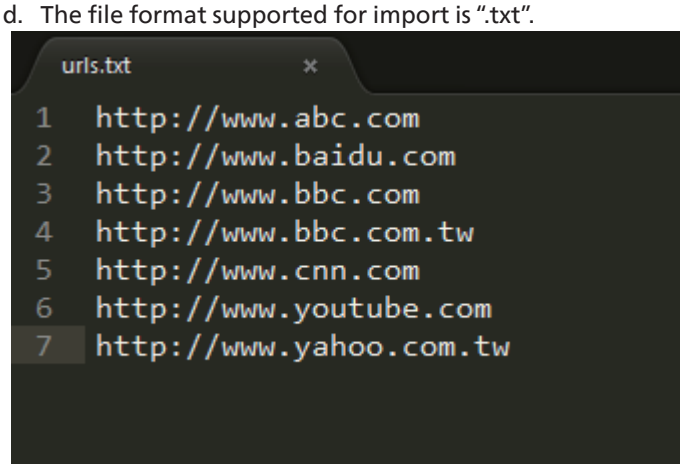

b. Select a browser file.




c. Import the browser file and the URL will be listed on the screen.

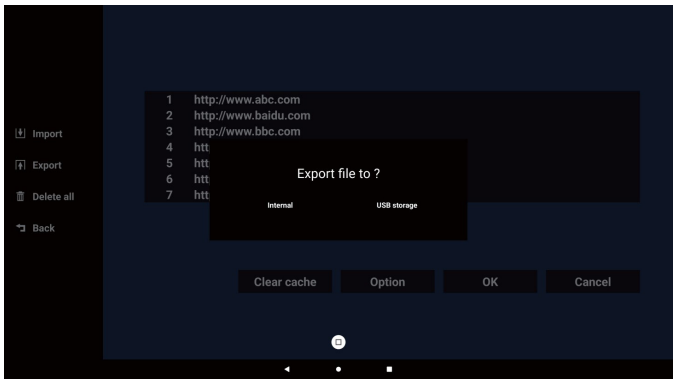



d. The file format supported for import is ".txt".

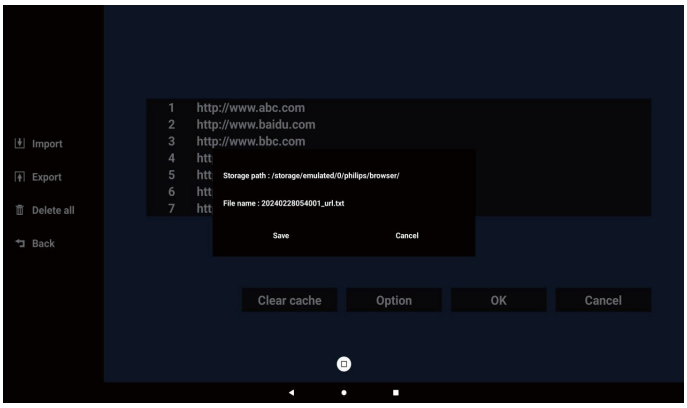



4.2 Export:

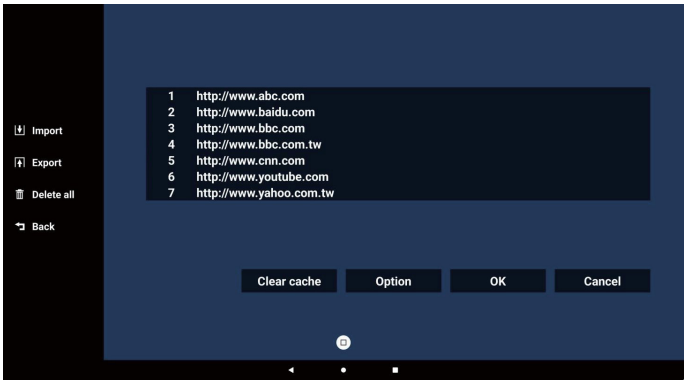
a. Select the storage where the file will be exported to.

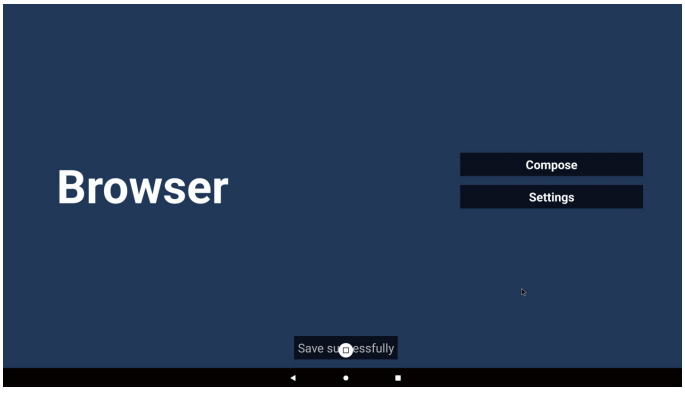



b. A dialog box displays the path of the file to be saved as well as the file name. Press the "Save" button to save the URL.

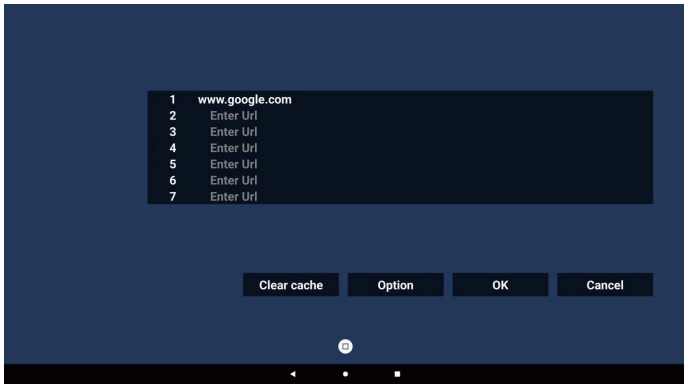


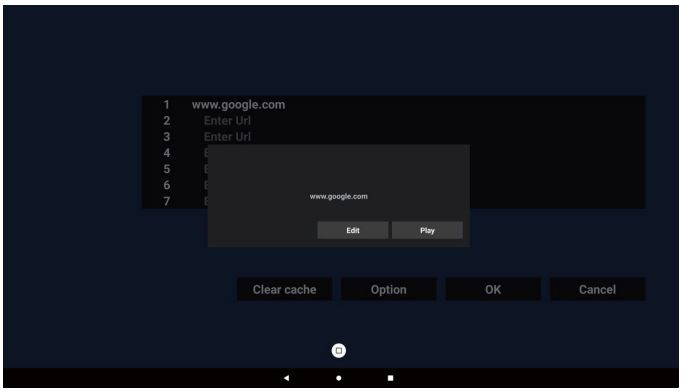

5. Press the "OK" button to save the URL record.



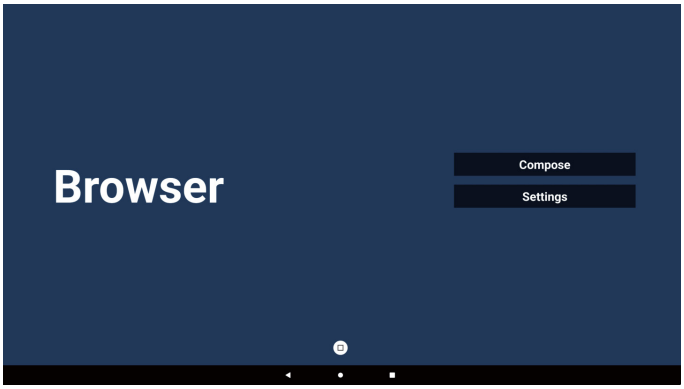



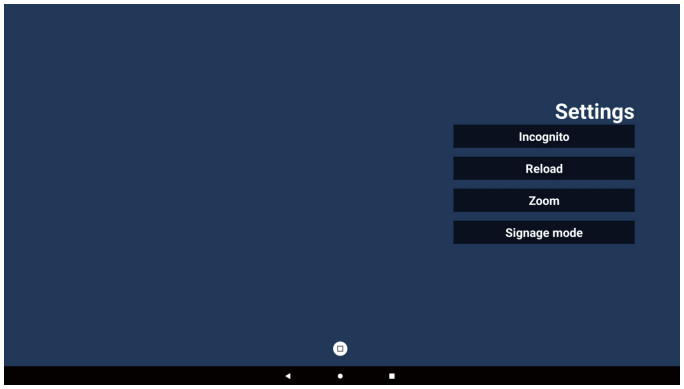
6. If you select a non-empty item from the URL list, a message will appear asking if you want to edit or play the URL. If you select “Edit” a dialog box allows you to edit the URL. If you select “Play”, a web page of the selected URL appears.




7. Press “Settings” then enter the next page.

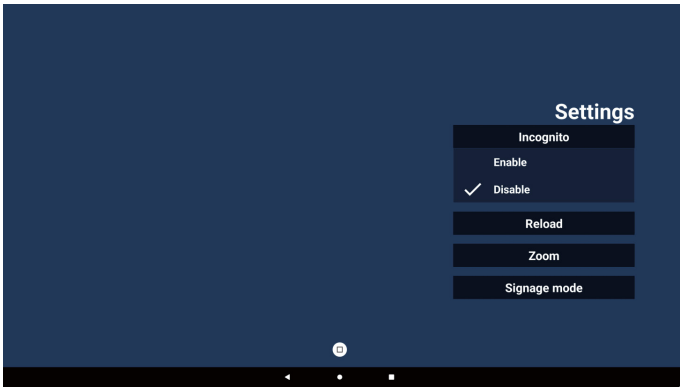



7.1 Incognito

a. Enable: Display webpages using incognito mode.

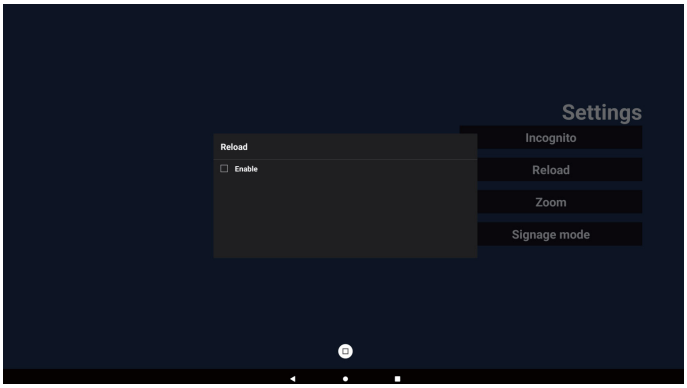
b. Disable: Display webpages using non-incognito mode.



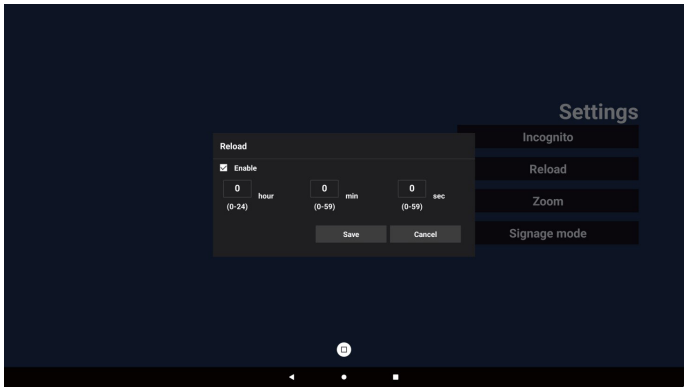

7.2 Reload

Allow you to set the webpage reload time.

a. If the enable checkbox is unchecked, reload will not work.




b. If the enable checkbox is checked, you can set the reload time.

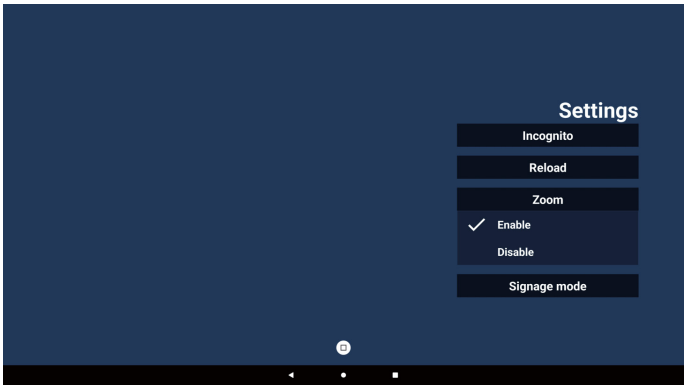


7.3 Zoom

Allow you to zoom in or out of a web page using two fingers. The webpage must also support this option. The option is enabled by default.

For example:

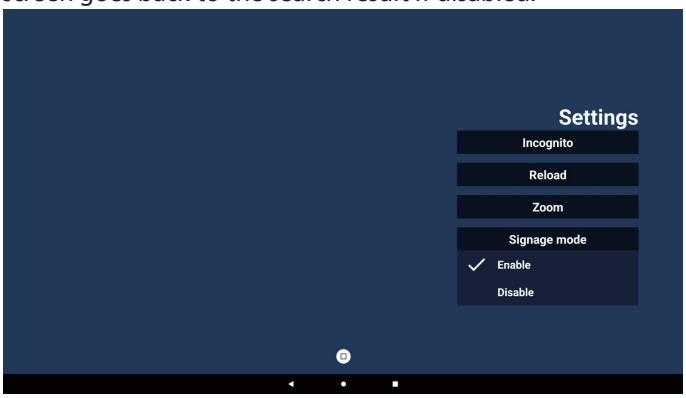
Zoom in and out on www.google.com home page.




7.4 Signage mode

Enable going back to the Browser Compose page when the you return from another app's activity. Disable keeping the Browser screen on the latest webpage. The option is enabled by default.

Open www.google.com and search for "PDF demo file". Click one PDF file in search result, the PDF file will be downloaded and opened. When you press "Back" button, the screen goes back to Browser Compose page if the option is enabled. The screen goes back to the search result if disabled.




8. OSD menu interaction with Browser

8.1 Boot on source

a. Set OSD menu => Configuration => Boot on source= > set BROWSER Play List to 0.
Then PD will show Browser after rebooting.

b. Set OSD menu => Configuration => Boot on source => Input be BROWSER Play List be 1.

Then PD will show the web page with 1st URL in Browser app.

8.2 Schedule

Set OSD menu => Advanced option => Schedule =>
On time1, Off time2, Browser as input, any day of the week and Play List.

Finally, check the right box.
Then PD will show the web page with URL in Browser app at time1 and finish at time2.

9. Offline browsing

When URL 1 has set address, and use OSD schedule to open URL 1 web page, browser app will auto save URL 1 screenshot to local storage. The screenshot frequency is every 5 seconds and only 12 times.

If network is disconnected and OSD schedule open browser app, browser app will auto open URL 1 screenshot in local storage.

Note:

a. Browser app only can save URL 1 screenshot, other URL 2 to URL 7 are not going to save.

b. Local storage: /storage/emulated/0/Download

The compose page will show "clear cache" button, press this button can clear URL 1 address home page data and screenshot in local storage.

10. Import a Text File

Step 1. Create a text file of media player.

- File name: bookmarklist.txt.
- Content:




Step 2. Copy bookmarklist.txt to "philips" folder of internal storage. You may use FTP to do this.

- File path: /storage/emulated/legacy/philips (for DL, PL)

Ex. /storage/emulated/legacy/philips/bookmarklist.txt

Step 3. Start browser app, it will import the text file of Browser automatically.

Note: Once the playlist file (text) is imported, any changes made through the remote control will not be recorded in the playlist text file.

## 5.8. PDF Player

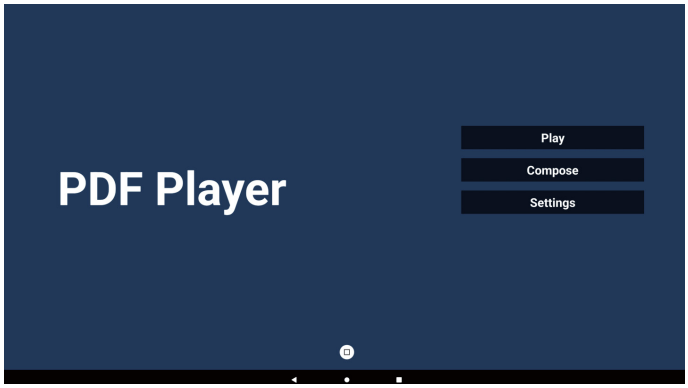
### 5.8.1. OSD Menu Interaction with PDF Player

1. Boot on source:
   - Input:
     - If you select PDF player as the source, the system will enter PDF player automatically after the boot process is completed.
   - Playlist:
     - Main page: go to the main page of PDF player.
     - Playlist 1 - Playlist 7: go to PDF player and playback File1 - File7 of playlist automatically.

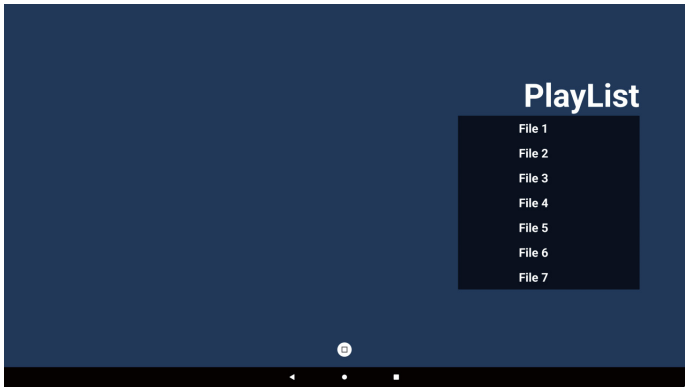
2. Schedule:
   - Schedule list:
     - Set up to 7 schedules.
   - Enable:
     - Enable/disable schedule.
   - Start time:
     - Set start time.
   - End time:
     - Set end time.
   - Playlist :
     - 1 - 7 : go to PDF player and playback File1 - File7 of playlist automatically.
   - Days of the week :
     - Set Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
   - Every week :
     - Set a weekly schedule.

### 5.8.2. PDF Player Introduction

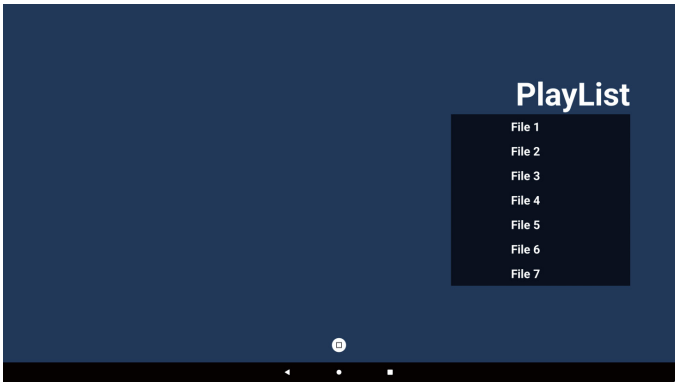
1. Home page of PDF Player app, this page has three items: "Play", "compose" and "Settings".
   Play : select playlist to play. compose: edit playlist.
   Settings: setting play properties.



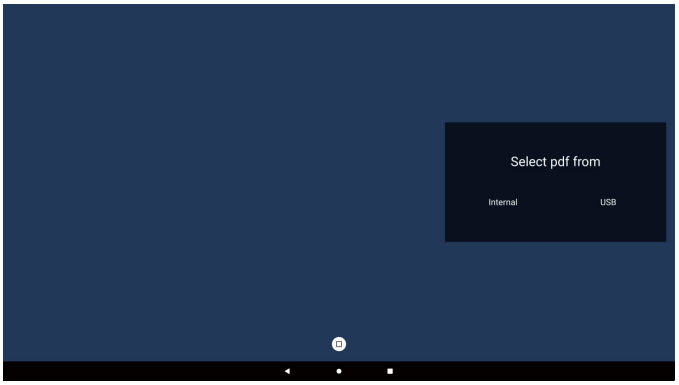

2. Select "Play" on home page, first you should choose one playlist to play between FILE 1 and FILE 7.
   The pencil icon means the playlist is non-empty.




3. Select "Compose" on home page, irst you should choose one playlist to edit between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.

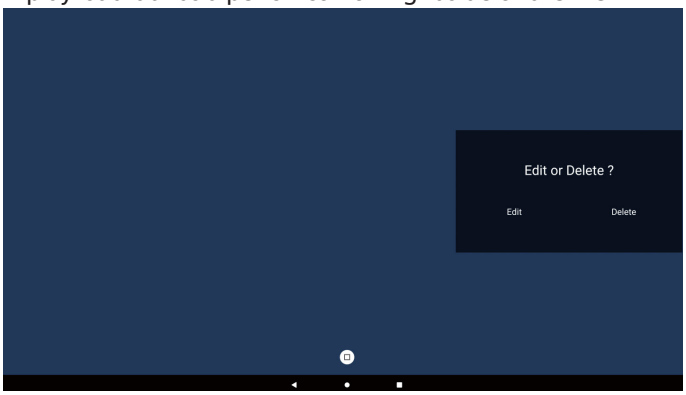



4. If an empty playlist is chosen, the app will guide you to select the media source.
   All media files should be placed in /philips/ of root directory.
   For example,
   - pdfs in /root/philips/pdf/




   Note:
   - If the USB disk cannot be found, the following message will be displayed. "Please plug in USB storage".
   - Internal storage is always available, so it can navigate to the next page.

5. To edit or delete a non-empty playlist, select the desired playlist that has a pencil icon on right side of the file.

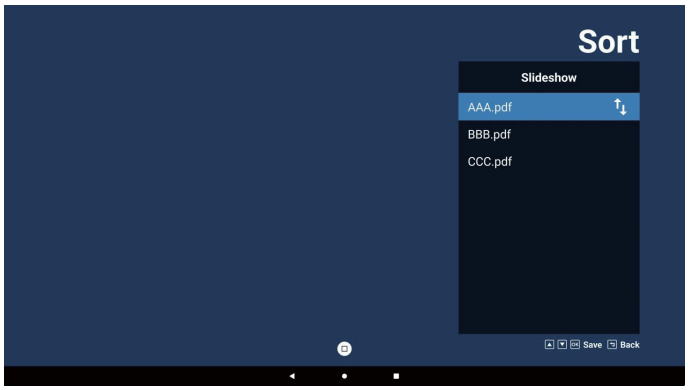


6. Once you start to edit a playlist, you will see below screen.
   Source - files in storage.
   Playlist - files in playlist.
   Toolbar - launch slidebar.
   Play key - play media file.
   Info key - show media info.
   ok key - select/deselect a file.

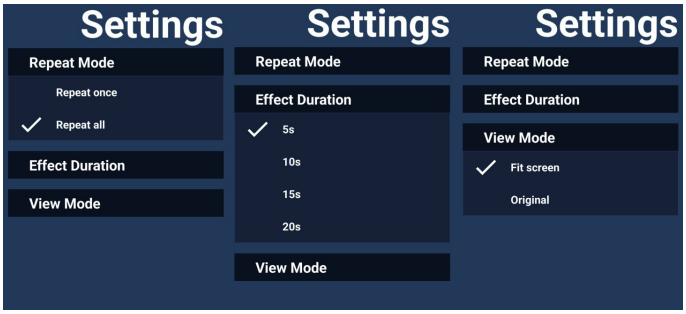
   6-1. From the side menu bar, the following functions are available:
   - Select all : select all storage fles.
   - Delete all : delete all playlist files.
   - Add/Remove : update playlist from source.
   - Sort : sort playlist.
   - Save/Abort : save or abort playlist.
   - Back : return.




7. If you choose "Sort" in the slidebar, you can change the order of files one by one.




8. Select "Settings" on home page, this page has three options, "Repeat Mode", "Effect Duration" and "View Mode".
   Repeat Mode : Set the repeat mode.
   Effect Duration : Photo effect duration.
   View Mode : Read or Full Screen mode.




**Arrow keys**

Up/Down/Left/Right: Adjust page. (When the page is zoomed in/out)

Left : Previous Page. (When the page is not zoomed in/out)
Right : Next Page. (When the page is not zoomed in/out)

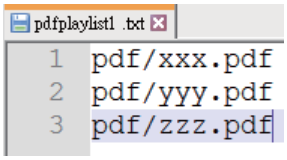
**Import a Text File**

Step 1. Create a text file of PDF player.

- File name: pdfplaylistx.txt, "x" means playlist number(1,2,3,4,5,6,7).

Ex. pdfplaylist1.txt, pdfplaylist2.txt

- content :




Step 2. Copy pdfplaylistx.txt to "philips" folder of internal storage. You may use FTP to do this.

- File path : /storage/emulated/legacy/philips (for DL, PL)

Ex. /storage/emulated/legacy/philips/pdfplaylist1.txt

Step 3. Prepare pdf files to "pdf" folder under "philips" folder, internal storage only.

- Ex. /storage/emulated/legacy/philips/pdf/xxx.pdf
  /storage/emulated/legacy/philips/pdf/yyy.pdf
  /storage/emulated/legacy/philips/pdf/zzz.pdf

Step 4. Start pdf player app, it will import the text file of PDF player automatically.

PS. Once the playlist file (text) is imported, any changes made through the remote control will not be recorded in the playlist text file.

**Note**:

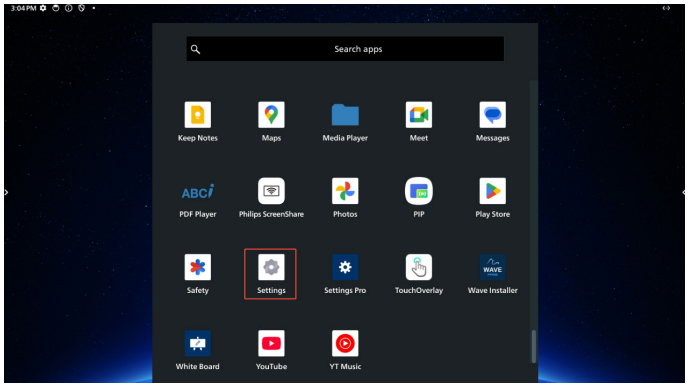
If you plug in two or more USB disks to edit the playlist, playback from the playlist cannot be guaranteed after powering on/off, due to the USB storage path may be changed. It is strongly recommended to use only one USB disk when editing the playlist.

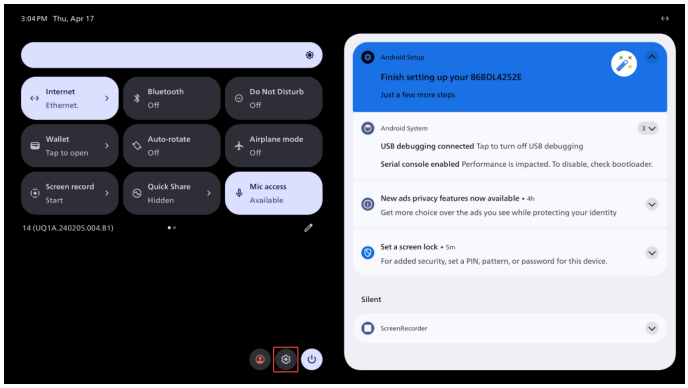
## 5.9. Philips ScreenShare

Philips ScreenShare is a software tool designed for wireless screen sharing and collaboration. For specific operation guides, please refer to: https://www.ppds.com/downloads/manuals.

# 6. Android Settings

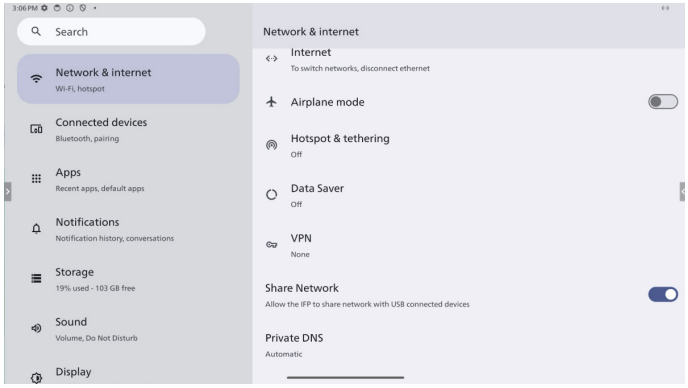
Tap **Settings** in all apps drawer or in control center to enter Android system settings:




## 6.1. Network & Internet

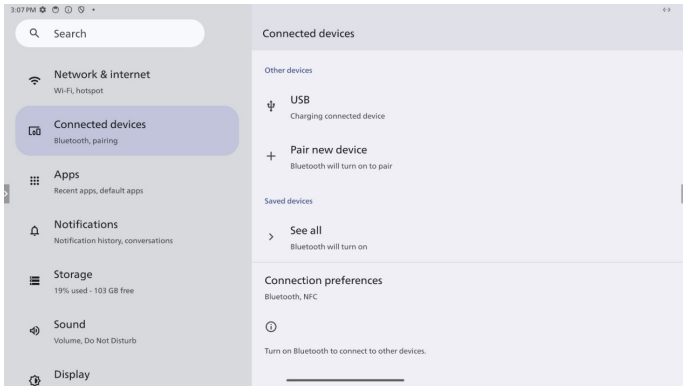
You can check and manage all the network settings in **Network & internet**.




- **Internet**: Manage your WLAN settings.
- **Ethernet**: Manage your wired network settings.
- **Airplane mode**: Temporarily disable all network connections.
- **Hotspot & tethering**: Manage access point settings.
- **Data Saver**: If you are using a metered WLAN or AP, turning on this will help you reduce data usage.
- **VPN**: Manage VPN settings.
- **Share network**: If IFP is connected to Ethernet, and your personal device is connected to IFP via HDMI and USB cable, when the IFP is switched to the source of your personal device, your personal device can use the same Ethernet of the IFP.
- **Private DNS**: Manage your private DNS configuration.

## 6.2. Connected Devices

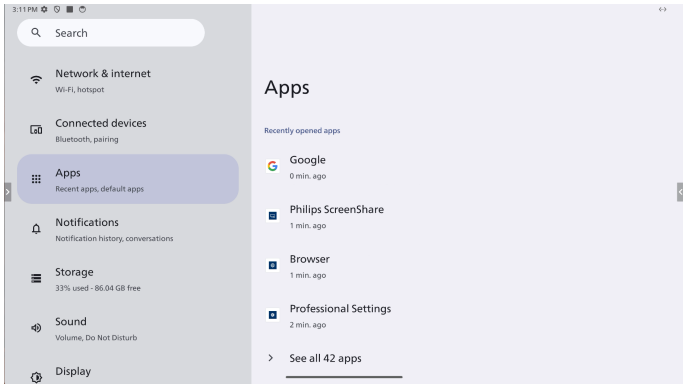
You can check and manage all the device connection settings in **Connected devices**.



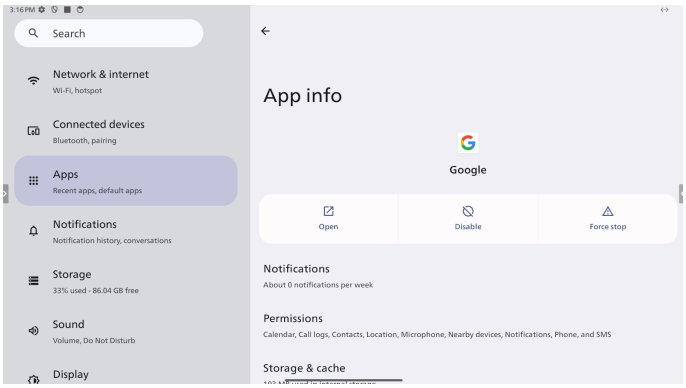

- **USB**: Manage how system handles inserted USB devices.
- **Pair new device**: Pair new device via Bluetooth, the paired device will be automatically connected next time.
- **Saved devices**: check paired devices, you can connect them quickly from here.
- **Connection preferences**: View and manage other connection options.

## 6.3. Apps

You can check and manage all app preference settings in **Apps**.



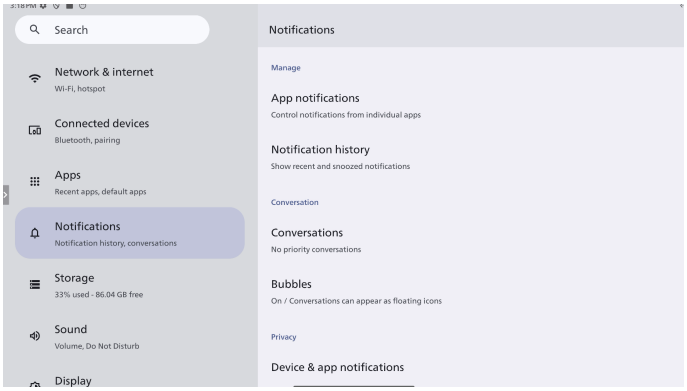
Tap one app to see detailed options. You can have global control & manage notification, permission, storage and other settings for each app.




You can change default apps for certain activities in Default apps:

## 6.4. Notifications

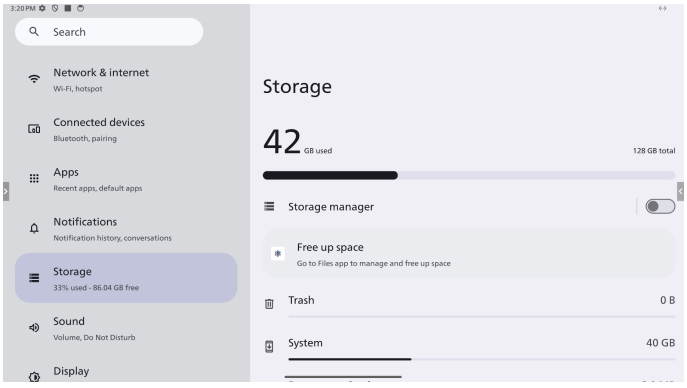
You can check and manage system notification settings in **Notifications**.




You can set notification preferences for each app, check notification history, and have advanced settings like Privacy, Do Not Disturb and Alarms etc.

## 6.5. Storage

You can check and manage system storage in **Storage**. Turn on Storage manager to let system remove media files periodically.

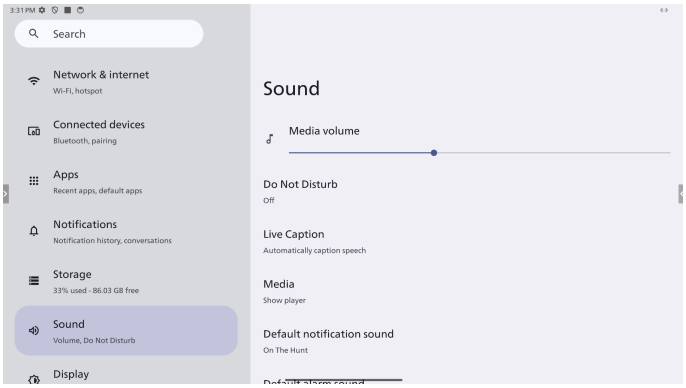



"Free up space" helps you to detect removable items and you can decide whether to delete them.

Tap each file type to check detailed storage occupation:

## 6.6. Sound

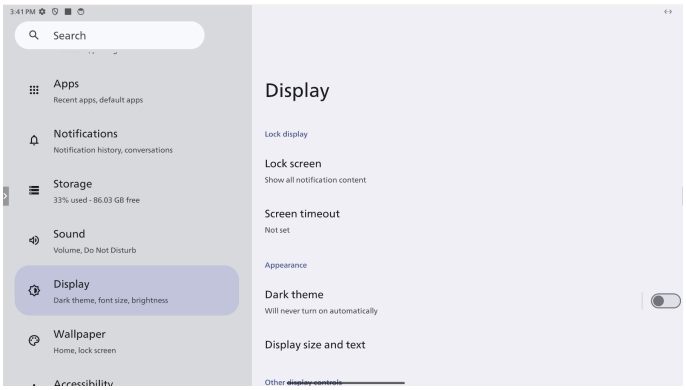
You can check and manage system sound settings in **Sound**.



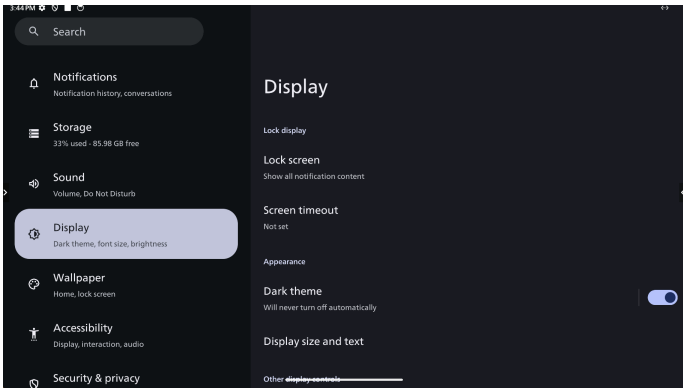

Live caption is a practical feature provided by Google. Teachers can use it to generate real time captions to enhance teaching experience.

## 6.7. Display

You can check and manage display settings in **Display**.

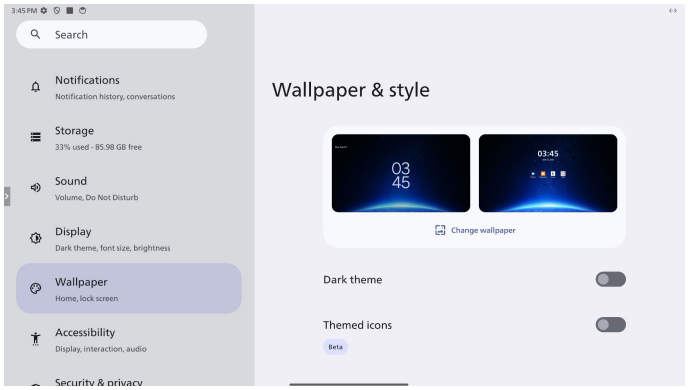



Turn on Dark theme, and system UI will change into dark mode:



## 6.8. Wallpaper

You can change your preferred wallpaper in **Wallpaper**.

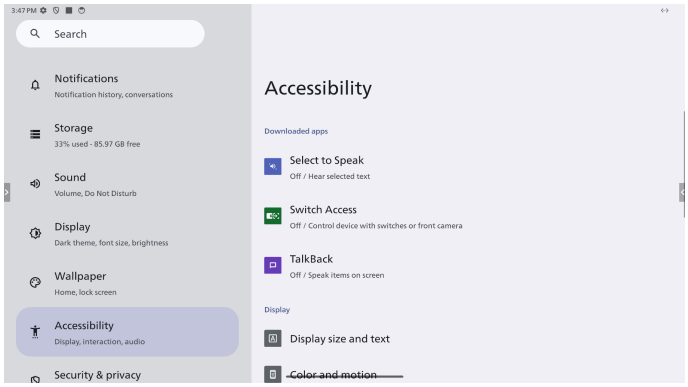



You can also turn on dark theme from here.

Themed icons take effect on all Google app icons. When turned on, Google apps will change into a single-colored theme.

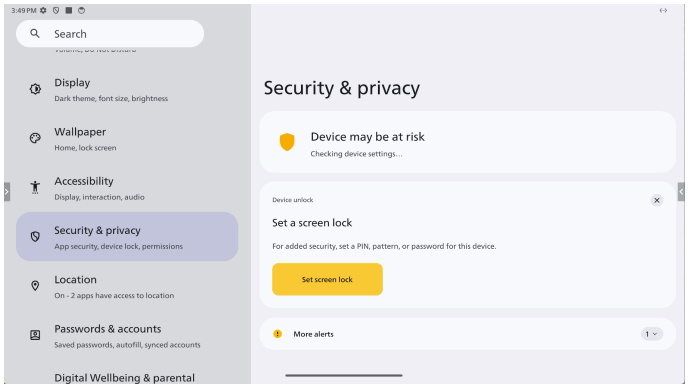
## 6.9. Accessibility

You can check and manage accessibility settings in **Accessibility**. Accessibility features registered by installed apps will be shown on top.

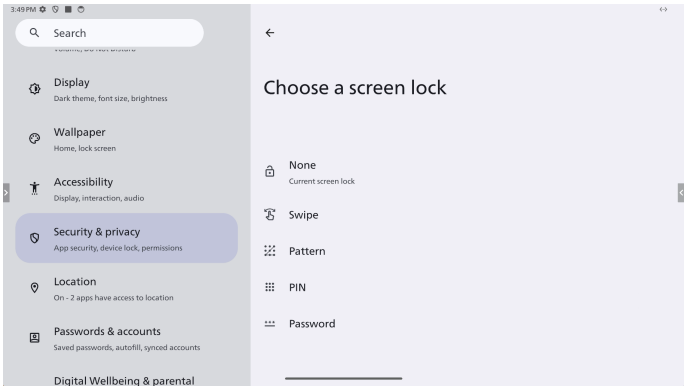



## 6.10. Security & Privacy

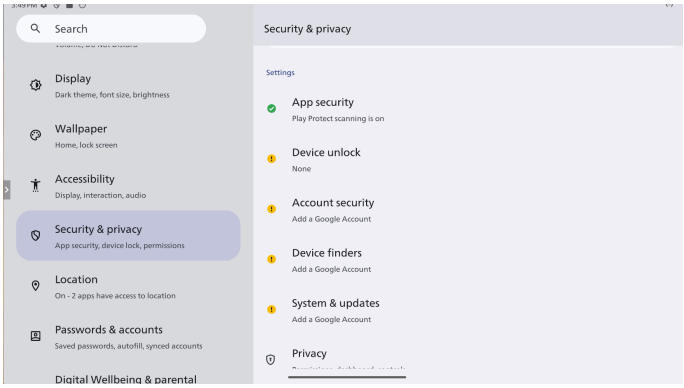
You can check and manage system security settings in **Security**. "Security Status" contains all the security options provided by Google.



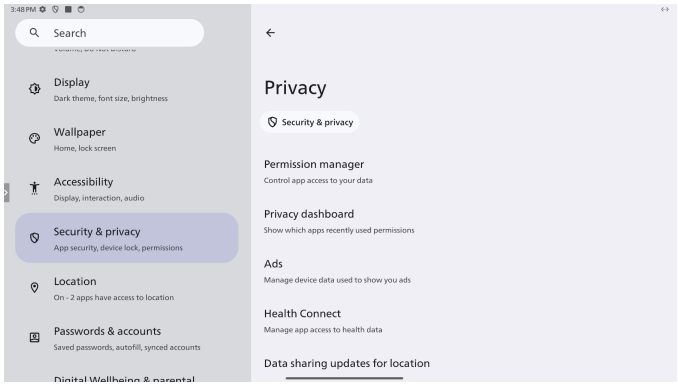

You can set screen lock in different types.




You can manage Smart Lock, system credentials and other advanced security settings in "More security settings".

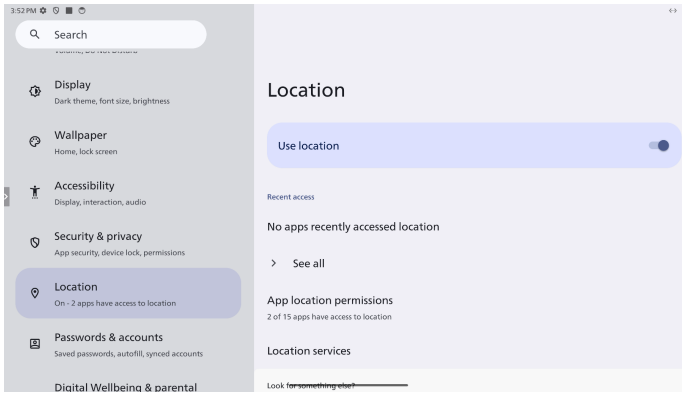



Privacy tab provides app permission usage dashboards and other system privacy settings: "Privacy dashboard" shows details of apps' usage of system privacy permissions.

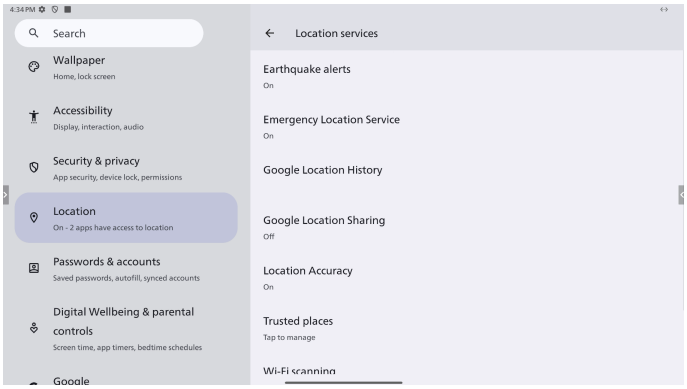


## 6.11. Location

You can manage location permissions and view the location usage by each app in **Location**.




You can also change advanced location service settings.



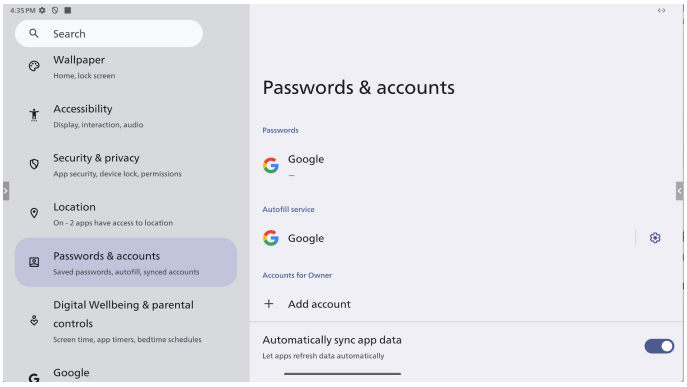

Before managing administrator settings, you will need to set administrator password first.

## 6.12. Passwords & Accounts

You can manage all passwords stored by system, autofill service and logged in accounts in **Passwords & accounts**.

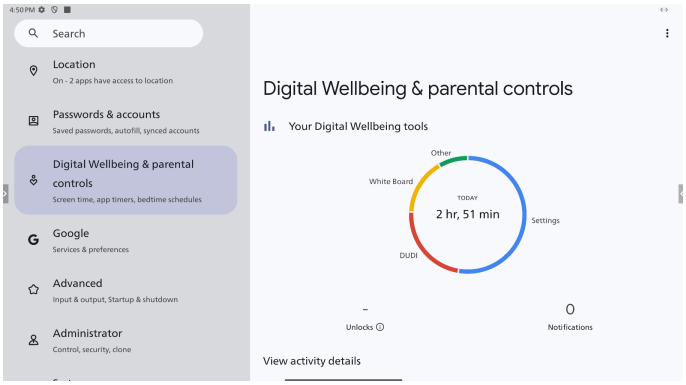
Tap “Add account” to check the available accounts registered in system and log in.

For Google account especially, you can enter the account page and tap “Remove account” to log out.



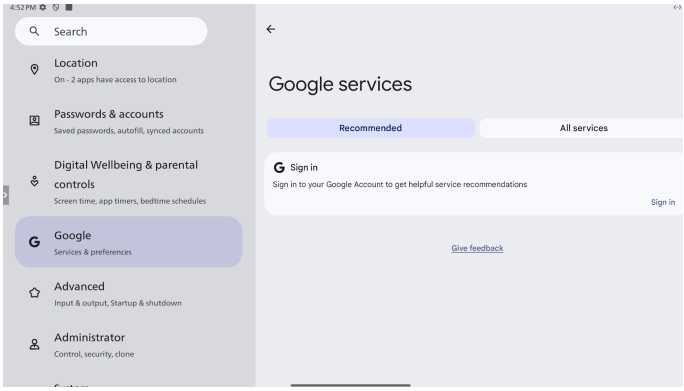

## 6.13. Digital Wellbeing & Parental Controls

You can check the apps usage time and manage app timers, bedtime schedules and other device wellbeing settings in **Digital wellbeing & parental controls**.



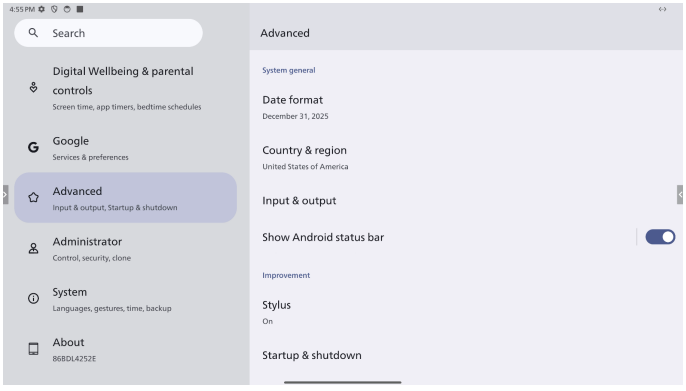

## 6.14. Google

You can manage Google account personal settings which you have logged in. These settings will be synchronized across devices logged in with the same Google account.




## 6.15. Advanced

You can manage general settings in **Advanced**.



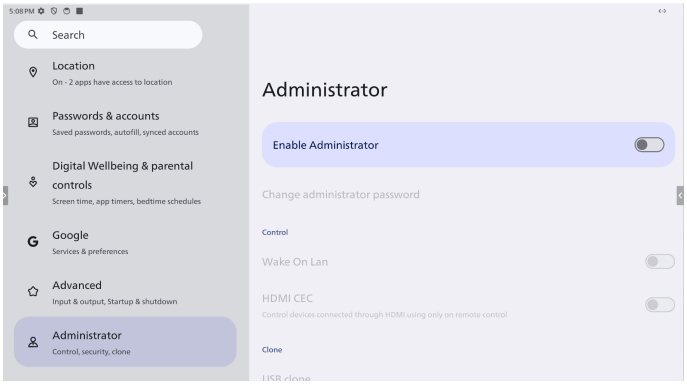

- **Date format:** Change the date format displayed in system.
- **Country & region:** Change the country & region according to your actual location, this will affect the Wi-Fi network channels for compliance reasons.
- **Input & output:** Manage audio output channel, input source aliases and output signal formats.

- **Show Android status bar**: change whether to show Android system bar according to your needs, if Android status bar is disabled, you will not be able to call control & notification center.
- **Startup & shutdown**: Manage system startup & shutdown behaviors, set startup & shutdown tasks and manage energy saving strategies.
- **Display**: change eye protection, auto backlight and pixel shift settings. Eye protection and pixel shift settings will be synchronized with Menu in sidebar.
- **Gesture**: Enable options to help you quickly control system.
- **Five fingers control**: Set system behavior triggered by five finger gestures.
- **Email**: Register E-mail service, and you can use E-mail sharing in Note, Finder and other Bytello apps.
- **User experience plan**: When this is turned on, system will collect your behavior data to help Bytello provide a better user experience. All data will be encrypted and desensitized, no user information will be collected or uploaded.

## 6.16. Administrator

You can find all original Bytello OS administrator settings in **Administrator**.

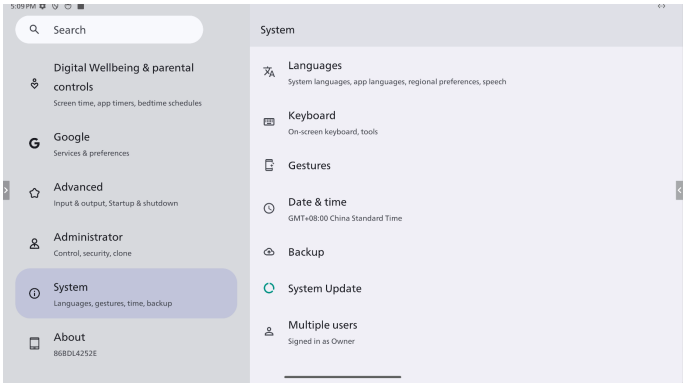
Before managing administrator settings, you will need to set administrator password first.




- **Wake on LAN**: When this is turned on, the IFP will be able to be woken up by LAN commands.
- **HDMI CEC**: When this is turned on, the device connected to IFP via HDMI can be universally controlled by cEc commands.
- **USB clone**: clone system settings from one IFP to another one by exporting-importing.
- **Auto remove files**: Set the schedule to automatically remove files to save storage space, support selecting time period and file types.
- **Security lock**: You can enable setting lock, network lock, USB lock and disable unknown source from here, in order to enhance system security.

## 6.17. System

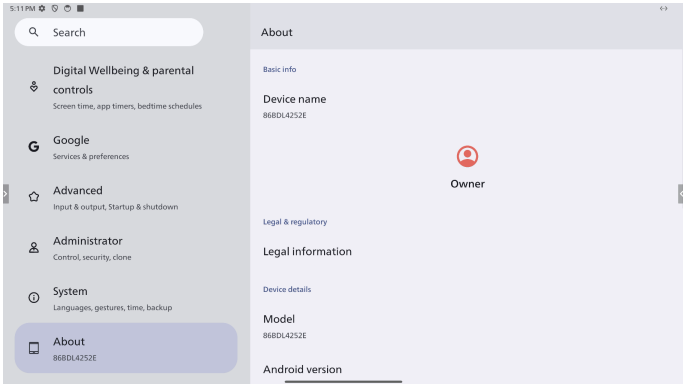
You can manage system general settings in **System**.




- **Languages & input**: check and manage system languages and input methods & keyboard settings.
- **Gestures**: Manage system navigation and system behavior on long pressing power button.
- **Date & time**: Manage system date and time settings.
- **Backup**: If you have logged in Google account, you will be able to use the backup service provided by Google.
- **System update**: check and manage system and patch updates status.
- **Multiple users**: check and manage local users on the IFP. Adding a new user will create a new user space, all system data
- **Reset options**: If you encounter irresolvable system errors, you can try different options to reset the system.

## 6.18. About

You can check device information and change device name in **About**.



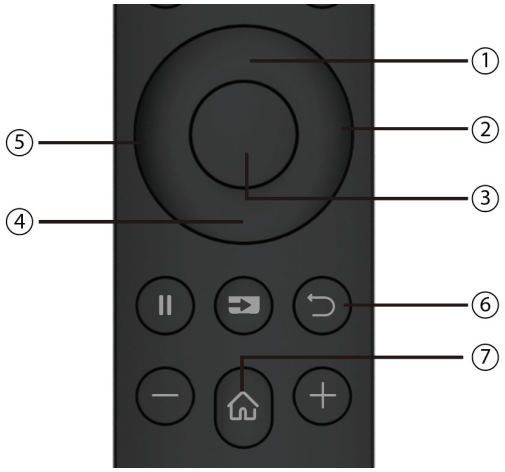

- **Device name**: check and manage device name, this will affect the device name for Bluetooth and Wi-Fi Direct.
- **Legal information**: check system legal information and Google legal information.
- **Device details**: check detailed information of this device, but you cannot modify this information.
- **Device identifiers**: check the hardware information of this device, this information can be used to uniquely identify this device.

# 7. Professional Settings

An overview of the professional settings structure is shown below. You can use it as a reference for further adjustment of your display.

## 7.1. Navigating the Menu

### 7.1.1. Navigating the OSD Menu Using the Remote Control



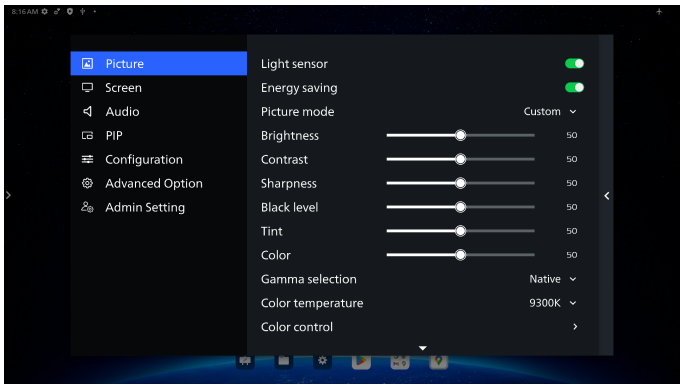

1. Press ① or ④ button to select the item to adjust items.
2. Press ③ button to enter the submenu.
3. In the submenu, press ① or ④ button to toggle between items, press ⑤ or ② button to adjust the settings. If there is a submenu, press ③ button to enter the submenu.
4. Press ⑥ button to return to the previous menu, or press ⑦ button to exit from the OSD menu.

### 7.1.2. Navigating the OSD Menu Using the Display's Control Buttons

Select [ ⚙ ] in sidebar. Press the control buttons to select the item to adjust.

## 7.2. OSD Menu Overview

The OSD menu has a total of three levels. The third-level menu provides explanations for each function in the second-level submenu. It is hidden by default, and you can click the arrow to expand and view it.







### 7.2.1. Picture Menu




**Light sensor**

Enable or disable the light-sensor function.

**Energy saving**

Enable or disable the energy-saving function. When enabled, the display will automatically turn off the screen in 1 minute if the ambient light is below 10 lux. Press the POWER button on the remote control or display to wake the screen.

**Picture mode**

Select a picture mode. Choose from {Standard} / {Bright} / {Soft} / {custom}.

After selecting a mode, you can manually adjust the PQ settings.

Note: Video sources only.

**Brightness**

Adjust the brightness of this display's backlight.

**Contrast**

Adjust the contrast ratio for the input signal.

Note: VIDEO source only.

**Sharpness**

This function is digitally capable to keep a distinct image at all times.

Adjust the sharpness of the picture for each picture mode.
Note: VIDEO source only.

**Black level**

Adjust the image brightness for the background.

Note: VIDEO source only. sRGB picture mode is standard and cannot be changed.

**Tint**

Adjust the tint of the screen.

NOTE: VIDEO mode only.

**Color (Saturation)**

Adjust the color of the screen.

Note: VIDEO source only.

**Gamma selection**

Select a display gamma. It refers to the brightness performance curve of signal input.

choose from {Native} / {2.2} / {2.4} / {s-gamma} / {D-image}. Note: VIDEO source only. sRGB picture mode is standard and cannot be changed.

**Color temperature**

Adjust the color temperature.

The image becomes reddish as the color temperature

decreases, and becomes bluish as the color temperature increases.

Note: VIDEO source only.

**Color Control**

The color levels of red, green, and blue can be adjusted by the color bars.

R: Red gain, G: Green gain, B: Blue gain.

In Color temperature=User1 mode, R/B/G gain adjust range is 0-255.

In Color temperature=User2 mode, color temperature adjust range is 3000k-10000k.

**HDMI Range**

Set the display range for the input RGB signal.

- {Auto} - Automatically adjusts the display range according to the input signal.
- {Limited} - Limit the range of RGB signalsto16 to 235.
- {Full} - The range of RGB signals is 0 to 255.

**Pixel shift**

Select the time interval ({Off} / {Auto} / {Custom} default: Off) for the display to slightly expand the image size and shift the position of pixels in four directions (up, down, left, or right).

**Pixel offset time**

Set pixel shift cycle time.

Note: Pixel shift is available for Custom, and the rest are grayed out.

**Dynamic contrast (DCR)**

Choose to set Dynamic contrast (DRC) on or off. Choose “On”, It can automatically adjust the screen’s brightness and contrast based on the light and dark changes of the displayed content.

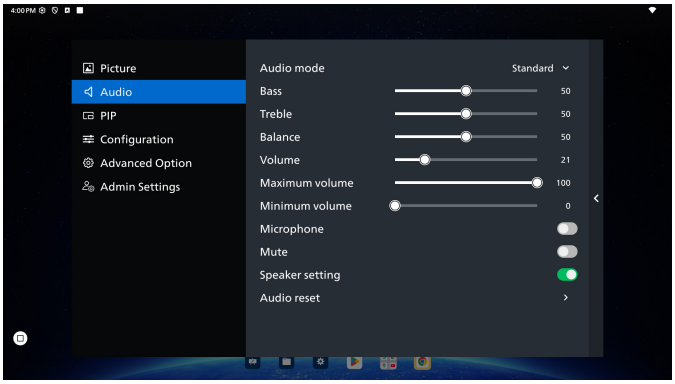
**Picture reset**

Reset all settings in the Picture menu.

Select “RESET” to restore factory preset data.

Press “CANCEL” button to cancel and then return to the previous menu.

## 7.2.2. Audio Menu




**Audio mode**

Select a picture mode. Choose from {Standard} / {Meeting} / {Class} / {Custom}.

After selecting a mode, you can manually adjust the AQ settings.

**Bass**

Adjust to increase or decrease lower-pitched sounds.

**Treble**

Adjust to increase or decrease higher-pitched sound.

**Balance**

Adjust to emphasize left or right audio output balance.

**Volume**

Adjust the volume.

**Maximum volume**

Adjust your own limitation for the maximum volume setting. This stops the volume from being played too loudly.

**Minimum volume**

Adjust your own limitation for the maximum volume setting. This stops the volume from being playing at too loud a level.

**Microphone**

Turn internal microphone {On}/{Off}.

**Mute**

Turn the mute function on/off.

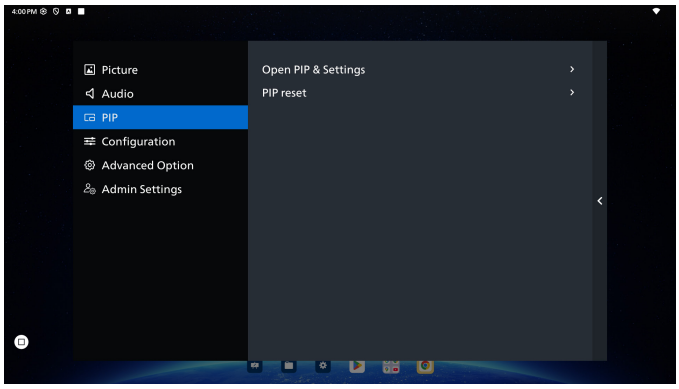
**Speaker setting**

Turn internal speaker {On}/{Off}.

**Audio reset**

Reset all settings in the Audio menu to factory preset values.

### 7.2.3. PIP



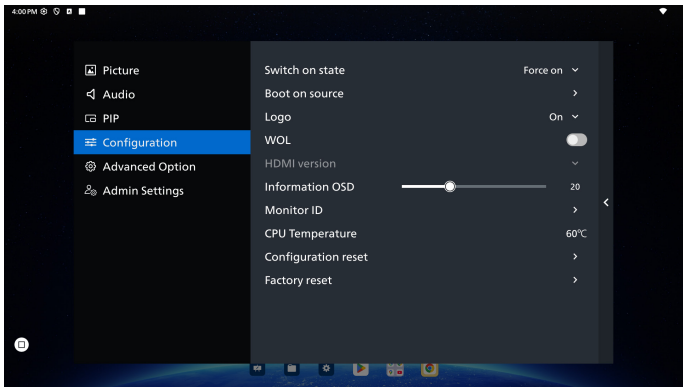

**Open PIP & Settings**

Open PIP app.

**PIP reset**

Restore PIP setting values to default.

### 7.2.4. Configuration Menu




**Switch on state**

Select the display status when you connect the power cord next time.

- {Power off}-The display will remain off when the power cord is connected.
- {Forced on} - The display will turn on when the power cord is connected.
- {Last status} - The display will return to the previous power status (on/off/standby mode) when the power cord is connected.

**Boot on source**

Choose to select a source when booting up.

- {Input} - Select input source when booting up.
- {Playlist} – Select playlist index for Media Player, Browser. 0 indicates there is no playlist.

**Logo**

Choose to enable or disable the picture of Logo when turning on your display.

- {Off}-Both static Philips logo and Android boot animation will not be shown.
- {On}-Default value. Both Philips logo and Android boot.
- {User} - Static Philips logo will not be shown, only user-selected boot animation will be shown in Android settings.

Note: Logo will not be rotated even thought rotation setting is set.

**WOL (Wake on LAN)**

- Allow the display to be turned on by a network message.

  Note: This function only works in power mode 1 and mode 2.

  After upgrade, WOL is off by default. You need to manually select Mode 1/2 WOL again to enable it.

**HDMI version**

Set the HDMI version to 1.2, 1.4 or 2.0.

**Information OSD**

Set the period of time the information OSD display on the upper left corner of the screen. The information OSD will display when input source and signal are changed.

The options are {Off,1-60} seconds.

**Monitor ID**

Set ID number for controlling the display via the RS232C connection. Each display must have a unique ID number when multiple sets of display are connected. Monitor ID number range is between 1 to 255. The option are:

{Monitor group}

- {Monitor group}

The options are: {0-254}. The default setting is 0.

Note: 0 is off.

**CPU Temperature**

Current CPU temperature.

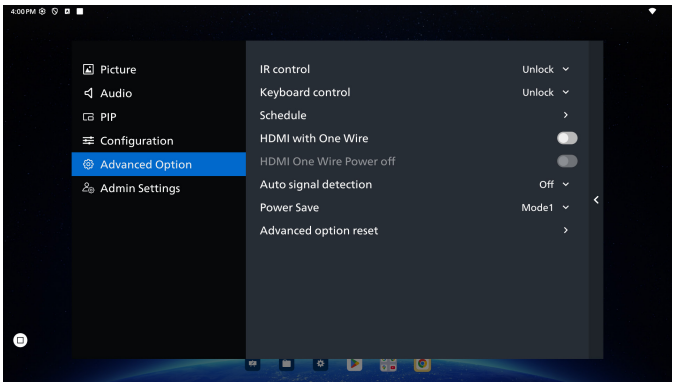
**Configuration reset**

Reset all settings in configuration 1 menu to factory reset values.

**Factory Reset**

Reset all customized settings in Picture, Screen, Audio, factory default values.

### 7.2.5. Advanced Option Menu




**IR control**

Select the operation mode of remote control when multiple displays are connected via an RS232C connection.

- {Unlock} - All displays can be operated normally by the remote control unit.
- {Lock All} / {Lock all but Volume} / {Lock all but Power} / {Lock all except PWR & VOL}- Lock the remote control function of this display.

To unlock, press and hold the [Input] button on the remote control for more 6 (six) seconds.

**Keypad Control**

Select to enable or disable the display keyboard (control buttons) function.

- {Unlock} - Enable the keyboard function.
- {Lock All} / {Lock all but Volume} / {Lock all but Power} / {Lock all except PWR & VOL} - Disable the keyboard function.

**Schedule**

Allow you to set up to seven differentscheduledintervals for display activity.

- {Schedule list} - Select 1-7 schedules to edit.
- {Enable} - Enable / disable selected schedule. If time conflict with other schedule or start / end time, input source are empty, you cannot enable this schedule.
- {On time} - Set start time.
- {Off time} - Set end time.
- {Input} - Set input source, system will go to selected source automatically at start time.
- {Play list} – Set playlist 1-7 for PDF Player and Browser sources.
- {Days of the week}-Set Sunday, Monday, Tuesday, Wednesday, Thursday, Friday and Saturday.
- {Every week} - Set lifecycle.
- {Brightness} – Set Brightness.
- {Clear all}- Clear the default data of thecurrent page (without saving).
- {Cancel} -Cancel and do not change schedule data.
- {SAVE} - Save schedule data.

**HDMI with One Wire**

Enable or disable HDMI CEC.

**HDMI One Wire Power off**

Allow you to set multiple devices to standby mode by pressing the power button. This function is only available when HDMI CEC is enabled.

**Auto signal detection**

OPTION:

- {Off}: Disable Auto signal detection
- {All}:HDMI1 -> HDMI2 -> HDMI3* -> DP* -> VGA*-> TYPE-C*->OPS-> Media Player -> Browser -> PDF Player -> Screenshare ->Custom->Home

*Not all modules have all sources in this list. DVI can be DVI- I or DVI-D

*Media Player, Browser will only try playlist index 1

{Failover}:

Failover 1: Home (default)

Failover 2: Home (default)

Failover 3: Home (default)

Failover 4: Home (default)

Failover 5: Home (default)

Failover 6: Home (default)

Failover 7: Home (default)

Failover 8: Home (default)

Failover 9: Home (default) *

Failover 10: Home (default) *

Failover 11: Home (default) *

{Plug-in} Manually insert the signal source and switch immediately.

**Power Save**

Mode 1: [TCP off, WOL on, auto off]

Mode 2: [TCP off, WOL on, auto on/off]

Mode 3: [TCP on, WOL off, auto on/off]

Mode 4: [TCP on, WOL off, no auto on/off]

*The status of WOL is determined by the WOL switch in Configuration.

Note:

TCP: Supports Lan-Rs232 function. WOL: Supports wake on lan function.

Auto off: When there is no signal in 20sec, it will automatically enter DC off.

Auto on/off: When there is no signal in 20sec, the PD will automatically enter the DC off state. The PD will be woken up when the signal returns.

No auto on/off: PD will not automatically enter DC off state and wake up.

**Advanced option reset**

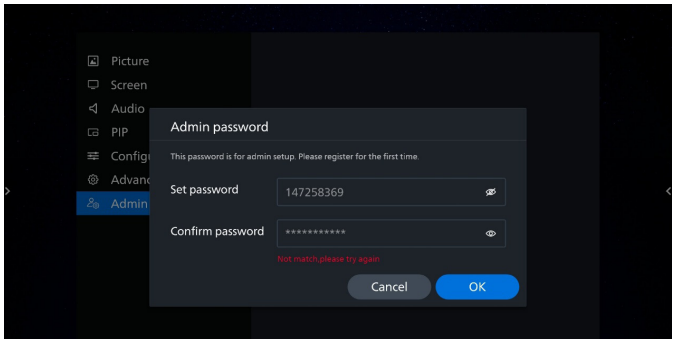
Reset all settings in the advanced option menu to factory preset values.

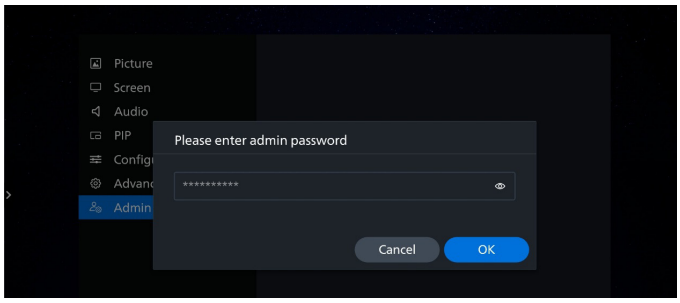
## 7.3. Admin Setting

**Open Admin Settings**

When enabled admin password from Professional Setting ->Admin settings, it must enter the password before entering the admin settings.

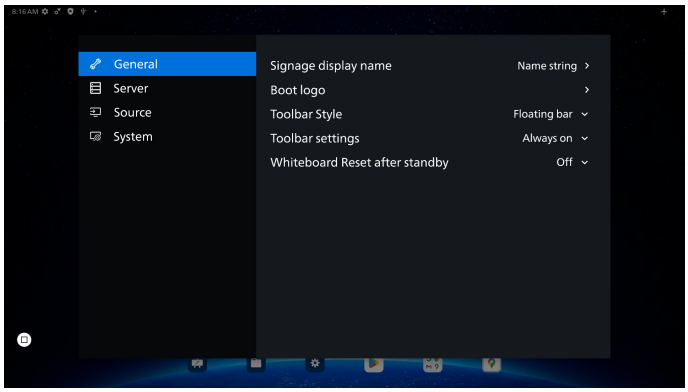
Note: If you choose to skip or disable in OOBE, you'll need to set a password to enter Admin mode for the first time. If a password has already been set, you can simply enter it to access Admin mode.





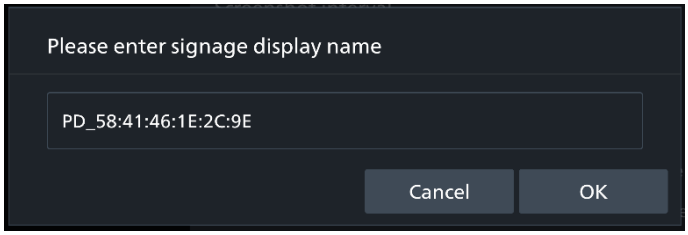

## 7.3.1. General Settings

To set up most features of signage display, see below for more detailed information about Signage Display settings.




**Signage Display Name**

Set up Signage Display name, the default name is Ethernet MAC address with prefix "PD_". For example, "PD_00:0b:12:22:33:98". The maximum length of name is 36 characters in UTF8 format. Click to rename it.




**Boot Logo**

You can set up device boot up logo (boot animation) when Professional settings-> Configuration -> Logo is set to "User" mode.

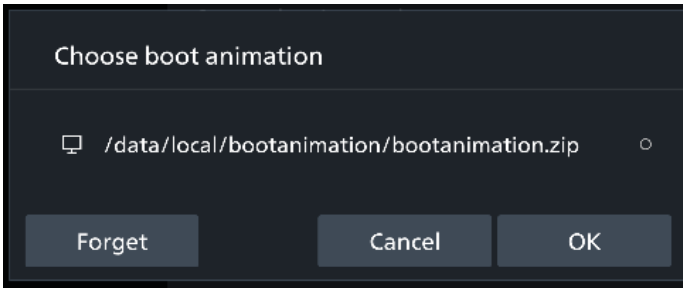
If "Logo" is not set to "User" mode, you cannot customize boot animation.

When it is set to "User" mode, the option "Choose Boot Animation" becomes available.

When Logo is set to "User" mode, the default Philips logo will

Click "Choose Boot Animation" and a pop-up menu appears for you to select boot animation file. Content saved on a USB memory card will be scanned automatically.

Boot animation file name must be set as "boot animation.zip", any other format is invalid.




All available boot animation files can be found in the following folder:

1. File under /data/local/boot animation/:The boot animation file that are copied from USB
2. File under {USB_STORAGE_VOLUME_NAME}/: The boot animation file save don the USB storage.

**Dialog options:**

1. FORGET

   Clear "bootanimation.zip under /data/local/boot animation/.

   Customized boot animation will not be used during system boot up.

2. CANCEL

   Cancel and close the dialog box.

3. SAVE

   Copy selected file to /data/local/boot animation/. After doing this, you can remove their external storage (USB). System uses the boot animation file under/data/local/boot animation.

   If the system cannot find any boot animation. zip file under external storage (USB) and /data, the file list is empty. The "SAVE" and "FORGET" buttons are grayed out, you should check content saved on the USB memory.

   Click "CANCEL" button to close the dialog box, and plug in the USB memory again. If/data/local/bootanimation/ folder is empty, it means that "bootanimation.zip" has not been saved yet.

   The Default Philips logo appears during system boot up.

   When "bootanimation.zip" is found under external storage, a dialog box of the file list will appear.

   If the file "bootanimation.zip" can be found in the folder "/data/local/bootanimation/", the pop-up dialog box will show that file as the first option. It simply means that you have previously copied (saved) the file "bootanimation. zip" and that the system will boot up with boot animation from

   /data/local/bootanimation/bootanimation.zip.

   Boot animation file can be replaced by using the "SAVE" button.

**Toolbar Style**

Select the Toolbar style (side bar or Floating bar).

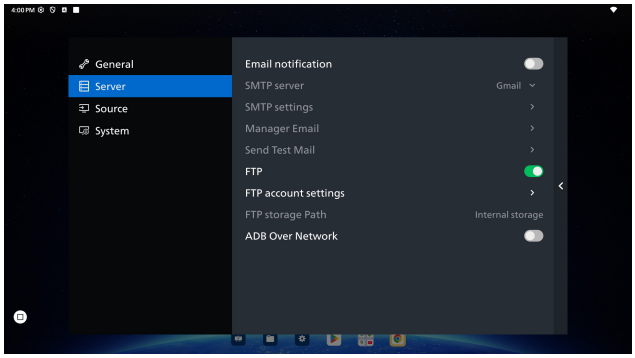
**Toolbar settings**

Set the Toolbar display mode (Always on/Always off/Auto hide).

**Whiteboard Reset after standby**

Set the idle duration after which the whiteboard resets automatically.

## 7.3.2. Server Settings




**Email Notification**

Switch on/off Email feature. Set SMTP and manager E-mail after enabling the E-mail notification feature.

**SMTP server**

Setup sender E-mail address and SMTP server information.

There are two types of SMTP server for you to set up: “Gmail” and “Other”. By using “Other” option, you can manually setup STMP server, security type and server port.

**SMTP settings**

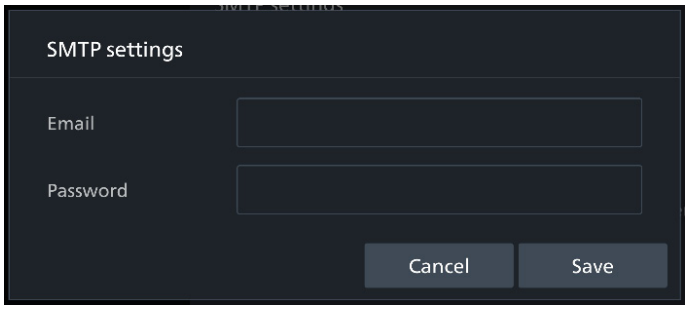
1. The password should be in UTF8 format with 6 to 20 characters.
2. You cannot set port 5000 (SICP default port) and 2121 (FTP server default port).

   SICP network port setting in “Server settings ->SMTP settings”.

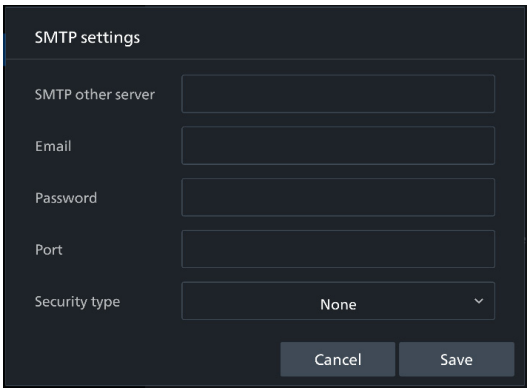
   FTP network port settings in “Server settings -> FTP account settings”.

   Note: Gmail: (SMTP server, Security type and Port are grayed out)
3. Security Settings: Gmail requires two-stage authentication.

SMTP sever is Gmail

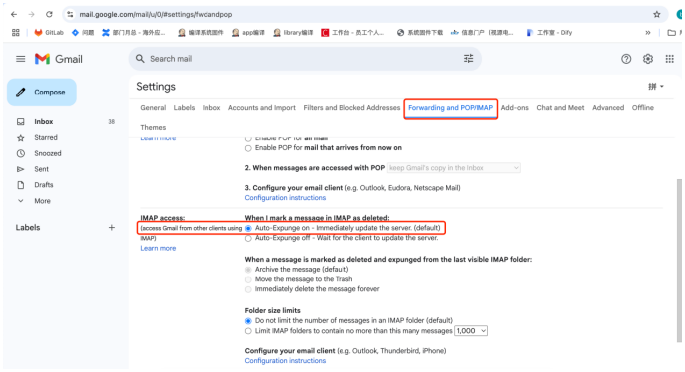



SMTP sever is Other

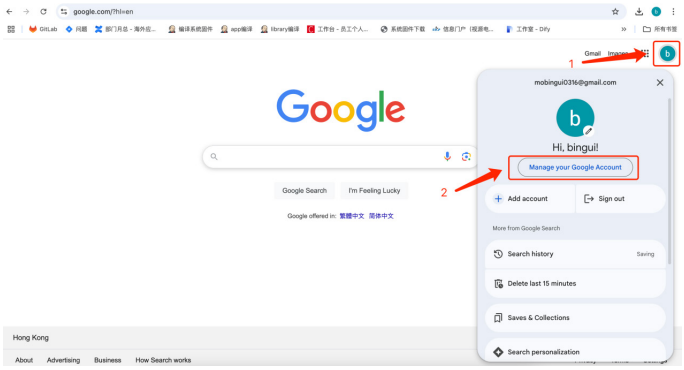



Step to get Gmail authorization code (Password):

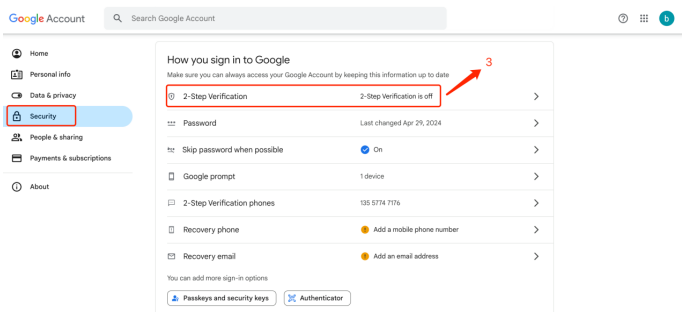
1. Open Google Chrome and enter https://mail.google.com/mail/u/0/#settings/fwdandpop,login Gmail Account



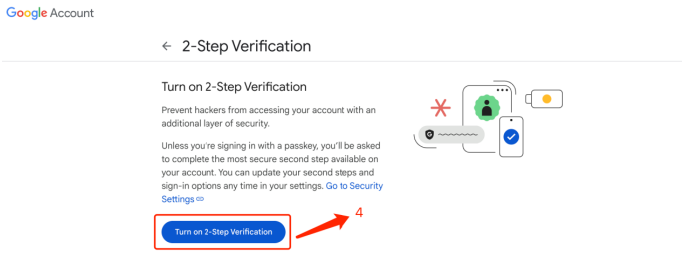

2. Open Google https://www.google.com/, login Gmail account, and open Manage your Google Account.



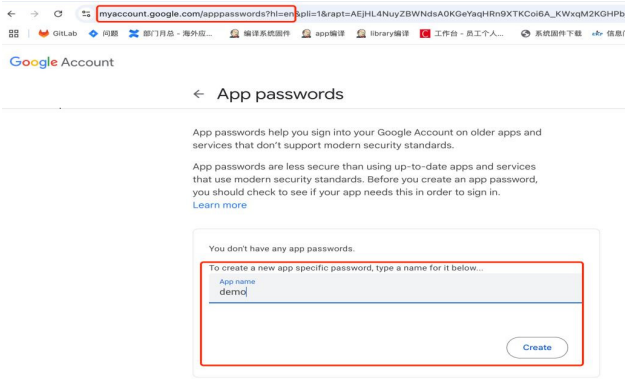

3. Click Security and 2-Step Verification



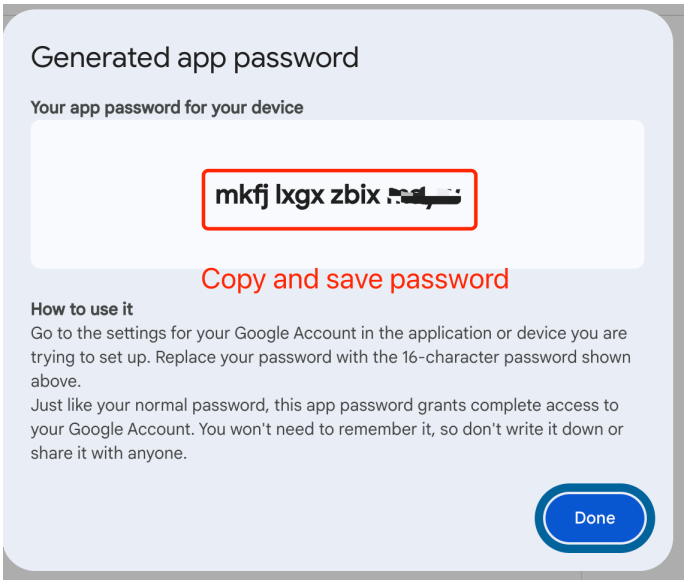
4. Turn on 2-Step Verification




5. After successful activation, enter https:// myaccount.google.com/apppasswords?hl=en in the browser address bar to set a dedicated password. You can fill in any name.




6. Copy and save the password. If you don't copy it, close the window. You won't be able to find the password later and will have to recreate it.




### Manager Email

Specify the destination address to receive the e-mail.

### Send Test Mail

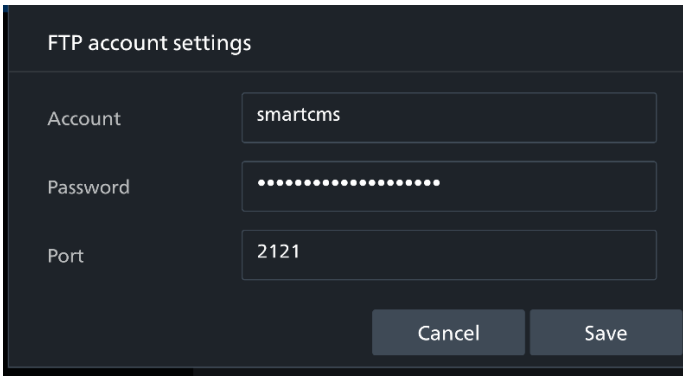
Test Mail" to send a test e-mail.

### FTP

Click the checkbox to enable/disable FTP server feature. After enabling this feature, you can set up account, password and port number.

Finally, manually reboot the system to apply FTP settings.

### FTP account settings




(1) Account: The user name to log in the FTP server. The length of the account name should be ranged from 4 to 20 characters, only [a-z], [A-Z] and [0-9] are allowed to use.

(2) Password: The password to log in the FTP server. The length of the password should be ranged from 6 to 20 characters, only [a-z], [A-Z] and [0-9] are allowed to use. The password are covered by asterisks after setting.

(3) Port: The port number for FTP server. Available port number ranges from 1025 to 65535, the default setting is 2121. The following port number cannot be used: 8000 / 9988 /15220 / 28123 /28124 and SICP network port (default 5000).

### FTP storage Path

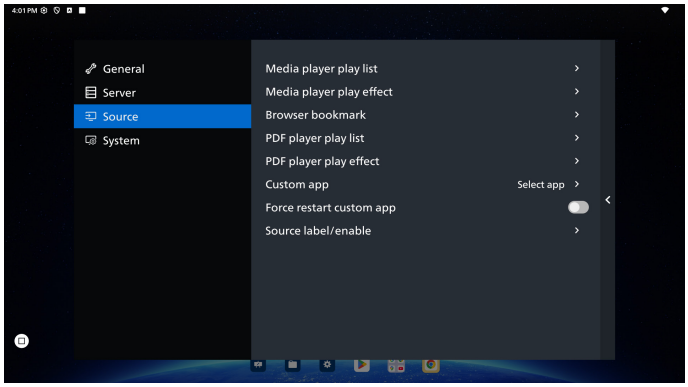
The FTP server has access to the internal storage only. The storage path is unchangeable.

### ADB over Network

You can access ADB over a network connection with port 5555.

## 7.3.3. Source Settings

You can configure the detailed options of the source APK.




**Media player play list**

Open Media Player APK's edit play list activity.

**Media player play effect**

Open Media Player APK's edit effect settings activity.

**Browser bookmark**

Open Browser APK's bookmark editor activity.

**PDF player play list**

Open PDF Player APK's edit play list activity.

**PDF player play effect**

Open PDF Player APK's edit effect settings.

**Custom app**

You can set up customer source APK. The selected APK will be launched when switching to the custom input source. If custom source APK is not set, the system shows a black screen when switching to customer input source.

If a custom source APK is set, the APK name will be displayed. Otherwise, it means that the custom App has not been set.

**Select APP**

(1) FORGET button

Clear the custom source application. It will be shown in gray if the customer source application has not been set.

(2) CANCEL button

Quit without saving changes.

(3) SAVE button

Click the "Save" button to select the APS as the custom source application. It will be shown in gray if no available application can be selected.

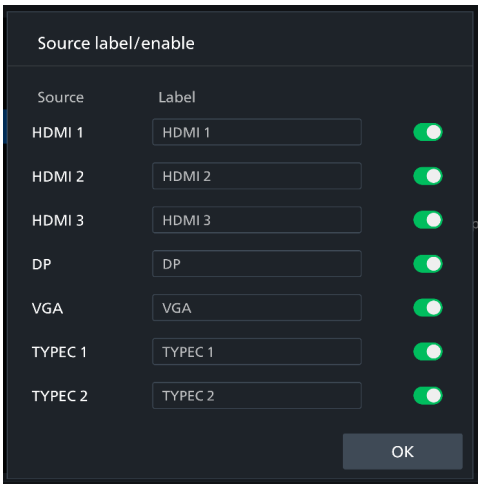
**Force restart custom app**

When this feature is enabled, the system can monitor the status of a custom APP. If the custom APP doesn't exist and the boot on source is set to "Custom app", the system will then try to launch the custom APP again.

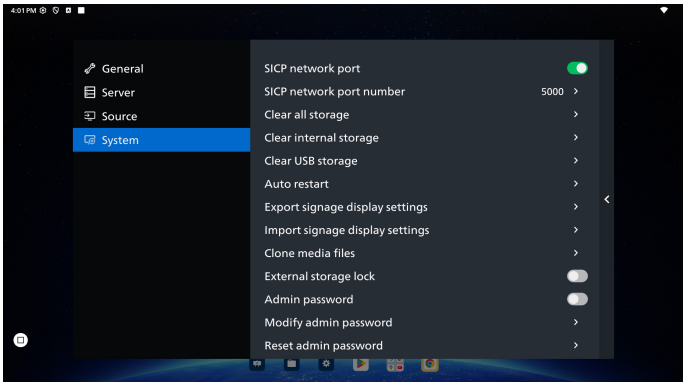
Default setting is Disable.

**Source lable/enable**

Modify the source labels displayed in the source list , and enable/disable a source in the source list.




## 7.3.4. System Settings




**SICP network port**

Set up the default port of SICP and enable/disable the network SICP. The default SICP is enabled with the port 5000.

**SICP network port number**

Port number ranges from 1025 ~ 65535.

The following ports are already occupied and cannot be assigned: 8000, 9988, 15220, 28123, 28124. The default FTP portis2121.

**Clear all storage**

Clear the data under{storage}/philips/folder of the internal and external storage.

Clear the folder "Philips" from the internal storage and USB.

**Clear internal storage**

Clear the folder "Philips" from the internal storage only.

**Clear USB storage**

Clear the folder "Philips" from the USB storage only.

A dialog box lists all the folders that the system is going to clear. Press "RESET" to clear all data under the listed folder, or press the back key to quit without saving.

**Auto restart**

Auto restart function allows the device to restart automatically at the time you specify.

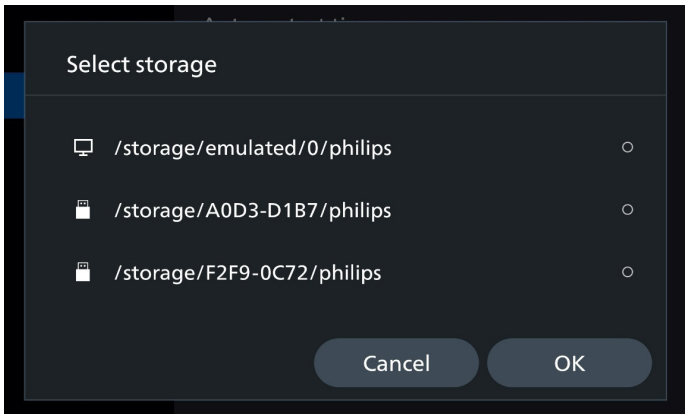
**Export Signage Display Settings**

System exports database data and APKs (Media/Browser/PDF Player) into {storage}/Philips/clone/BDL4252E-clone.zipfile of the selected storage (internalstorage or USB storage).

Note:

If the selected storage (internal storage and USB) does not contain Philips/folder, then the system will create it automatically.

A list of all available storage (internal storage and USB storage):



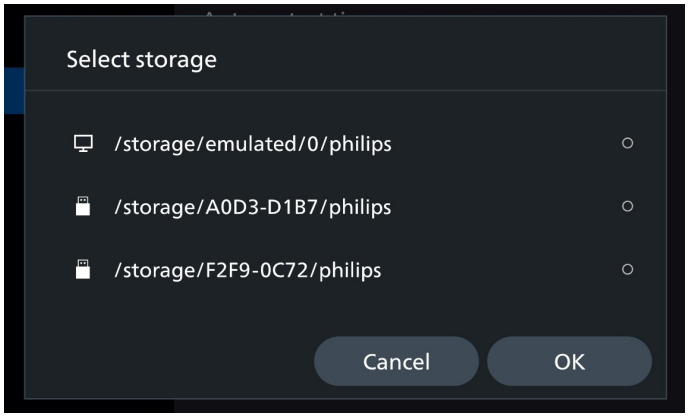

**Import Signage Display Settings**

Import database data from philips/clone/BDL4252E-clone.zip file of the selected storage (internal storage, USB import the following:

(1) Import Database in BDL4252E-clone.zip

(2) Import APKs (Media/Browser/PDF Player) in BDL4252E.cloIne.zip

A list of all available storage (internal storage and USB storage):




A confirmation dialog box is displayed before importing the settings and APKs. Click the “OK” button to start importing the data.

Clone media files

This function allows you to copy the media files from the selected source storage to the target storage.

System clone files are under the following folder:

philips/photo

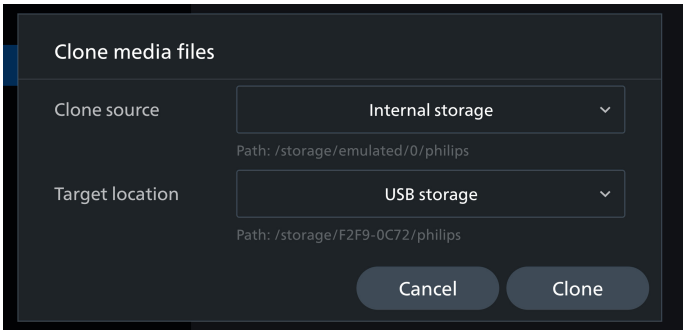
philips/music

philips/video

philips/cms

philips/pdf

philips/browser




**External Storage Lock**

Switch on/off to lock external storage (USB storage). Default is off.

Note: When you disable the external storage lock to enable state, please unplug and plugin the external storage again. After that, system can detect external storage again.

**Admin password**

If the admin password is set to OFF, it means entering Admin Mode requires no password.

Note: When admin password is on, you need a password to login Admin Mode.

**Modify admin password**

You can change the password for logging into Admin Mode.

Follow below steps:

(1) Enter the current password first.

If the current password is not correct, you will see an “Incorrect password” toast message.

(2) Enter a new password.

(3) Enter the new password again.

Try again if the new password is not correct.

If the password is changed successfully, you will see an Android Toast “Successful” message.

**Reset admin Password**

Password: Change the password if needed.

Reset Password: Reset the password. If succeed, you will see a “Successful” toast message.

**Admin password required for Tools**

Enabling / Disabling requires the administrator password to open the Tools menu.

**Hint touch lock dialog**

Touch lock dialog switch. By default, it’s on. When turned off, the password input dialog won’t appear again.

Note: If you want to turn it on again, they need to use the remote control to go to the settings and enable this function to bring up the password dialog.

**Modify touch lock password**

Change Touch Lock password

**Reset touch lock password**

Reset Touch Lock password, default password : 123.

**TeamViewer Support**

Switch on/off the TeamViewer support. TeamViewer will send a virtual HOME key to open Admin mode. Default is off.

TeamViewerHost and TeamViewerQSAddOn APKs will auto install into system. Otherwise, system will remove them if you disable “TeamViewer Support”.

**ErP Lot 5**

Switch on/off ErP Lot5.

Energy - saving mode. When enabled, Android devices display a warning after 60 minutes of inactivity, then enter standby (power - off) after another 5 minutes. Non - Android channels enter standby after 20 seconds of no signal.

*Only effective in Power Mode 1.

**Enable logging**

Switch on/off logging.

Once enabled, PD will start logging android logcat log, kernel message and saved them into USB or internal storage automatically. The first priority is USB storage. If there are no any connected usb devices on PD, all data will then saved into internal storage.

The saved path will be

{roor directory of USB storage}/ philips/Log/BDL4252E-Log-{yyyy-MM-dd-HH-mm-ss}

Or

{root directory of internal storate}/ philips/Log/BDL4252E-Log-{yyyy-MM-dd-HH-mm-ss }

If disabling logging, all data will be saved to a zip file like

{roor directory of USB storage}/philips/Log/BDL4252E-Log-{yyyy-MM-dd-HH-mm- ss}.zip

Or

{root directory of internal storate}/ philips/Log/BDL4252E-Log-{ yyyy-MM-dd-HH-mm-ss }.zip

**System local update**

System will automatically search for “update.zip” in the root folder of the USB disk. If “update.zip’ is found on the external storage, a list will be shown for you to select the file to update.

Once the file is selected from the list, the system starts rebooting and updating.

Please note that:

(1) Do not turn off the power or remove the power

(2) The current system only supports full Android update.

(3) The update file must be named “update.zip” only.

(4) The “update.zip” file must be stored in the root folder of your external storage.

Open Media Player APK’s edit effect settings activity.

# 8. Supported Media Formats

**USB Multimedia Formats**

| Video format | | |
|---|---|---|
| **Extensions** | **Video Codec** | **Maximum transmit Resolution and Bit Rate** |
| .3gp/3GP2 | H.263 | SQcIF(128x96),<br>QcIF(176x144),<br>cIF(352x288) , 20Mbps |
| | H.264 | 3840x2160@60fps, 100Mbps |
| .avi | H.264 | 3840x2160@60fps, 100Mbps |
| .dat | mpeg1/2 | 1920*1080@60fps |
| .flv | H.264 | 3840x2160@60fps, 100Mbps |
| .mkv | Mpeg-4 | 1920*1080@60fps |
| | H.264 | 3840x2160@60fps, 100Mbps |
| .mov | Mpeg-4 | 1920*1080@60fps |
| | H.264 | 3840x2160@60fps, 100Mbps |
| .mp4 | Mpeg-4 | 1920*1080@60fps |
| | H.264 | 3840x2160@60fps, 100Mbps |
| | H.265 | 3840x2160@60fps, 80Mbps |
| .VOB | mpeg1/2 | 1920*1080@60fps |
| .mpg/.mpeg | mpeg1/2 | 1920*1080@60fps |
| .webm | vp9 | 7680x4320@30fps, 30Mbps |
| | vp8 | 1920*1080@60fps , 20Mbps |
| .ts | H.265 | 3840x2160@60fps, 80Mbps |
| | mpeg1/2 | 1920*1080@60fps |
| | H.264 | 3840x2160@60fps, 100Mbps |

| Audio format | | |
|---|---|---|
| **Extensions** | **Audio Codec** | **Sample Rate/Bit Rate** |
| .aac/.m4a | AAC-LC | Sample Rate: 8KHZ~44KHz |
| .mpg | MPEG1/2 Audio Layer2/3 | Sample Rate: 16KHZ~48KHz<br>Bit Rate: 48kbps~320Kbps, cBR and VBR |
| .flac | FLAC | Sample Rate: 16KHZ~44KHz |
| .ape | / | / |
| .mp3 | MPEG1/2 layer3 | Sample Rate: 16K~48KHz<br>Bit Rate: 8~320Kbps |
| .ogg | Vorbis | Sample Rate: 16KHZ~44KHz |
| .mid | MIDI | |
| .wav | PCM | Sample Rate: 8KHZ~48KHz |

| Photo format | |
|---|---|
| **Image** | **Resolution** |
| JPEG | 3840 x 2160 |
| PNG | 3840 x 2160 |
| BMP | 3840 x 2160 |

**NOTES:**

- Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.
- Video content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy video during playback.

# 9. Input Mode

Timing support:

| Neue | Resolutione | Reference | Clock[MHz] | H.Freq. (KHz) | V.Freq. (Hz) |
|---|---|---|---|---|---|
| 1 | 640*480 @60Hz | VESA | 25.175 | 31.469 | 59.94 |
| 2 | 800*600 @56Hz | VESA | 36.000 | 35.156 | 56.25 |
| 3 | 800*600 @60Hz | VESA | 40.000 | 37.879 | 60.32 |
| 4 | 1024*768 @60Hz | VESA | 65.000 | 48.363 | 60.00 |
| 5 | 1280*800 @60Hz | VESA | 83.500 | 49.702 | 59.81 |
| 6 | 1280*1024 @60Hz | VESA | 108.000 | 63.981 | 60.02 |
| 7 | 1360*768 @60Hz | VESA | 85.500 | 47.712 | 60.02 |
| 8 | 1680*1050 @60Hz | VESA | 146.250 | 65.290 | 59.95 |
| 9 | 1920*1080 @60Hz | VESA | 148.500 | 67.500 | 60.00 |
| 10 | 2560*1440 @60Hz | VESA | 241.5 | 88.787 | 59.95 |
| 11 | 480p @60Hz | CEA-861 | 27.027 | 31.500 | 60.00 |
| 12 | 576p @50Hz | CEA-861 | 27.000 | 31.250 | 50.00 |
| 13 | 720p @50Hz | CEA-861 | 74.250 | 37.500 | 50.00 |
| 14 | 720p @60Hz | CEA-861 | 45.000 | 60.00 | 60.00 |
| 15 | 1080p @23Hz | CEA-861 | 74.175 | 26.973 | 23.98 |
| 16 | 1080p @24Hz | CEA-861 | 74.250 | 27.000 | 24.00 |
| 17 | 1080p @25Hz | CEA-861 | 74.250 | 28.125 | 25.00 |
| 18 | 1080p @29Hz | CEA-861 | 74.175 | 33.716 | 29.97 |
| 19 | 1080p @30Hz | CEA-861 | 74.250 | 33.750 | 35.00 |
| 20 | 1080p @50Hz | CEA-861 | 148.500 | 56.250 | 50.00 |
| 21 | 1080p @60Hz | CEA-861 | 148.500 | 67.500 | 60.00 |
| 22 | 3840*2160 @24Hz | CTA | 297.000 | 54.000 | 23.98 |
| 23 | 3840*2160 @25Hz | CTA | 297.000 | 56.250 | 25.00 |
| 24 | 3840*2160 @30Hz | CTA | 297.000 | 67.500 | 29.97 |
| 25 | 3840*2160 @50Hz | CTA | 594.000 | 112.500 | 50.00 |
| 26 | 3840*2160 @60Hz | CTA | 594.000 | 135.000 | 59.94 |

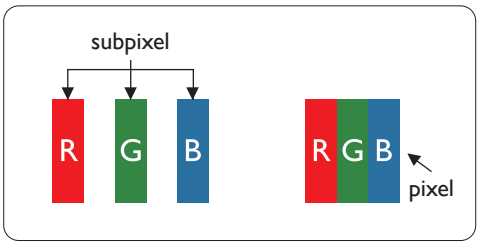
- The PC text quality is optimum in UHD mode (3840 x 2160, 60Hz).
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5KHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the [INPUT] button to enter the video mode. Also, make sure that the PC is connected.
- When horizontal synchronous signals seem irregular in RGB mode, check PC power saving mode or cable connections.
- The display settings table complies to the IBM/VESA standards, and based on the analog input.
- The DVI support mode is regarded as same to the PC support mode.
- The best timing for the vertical frequency to each mode is 60Hz.
- IIn UHD mode (3840 x 2160, 60Hz), Pixel Rate HDMI:594 , TYPE-C:533.25.

# 10. Pixel Defect Policy

We strive to deliver the highest quality products and use some of the industry's most advanced manufacturing processes whilst practicing stringent quality control. However, pixel or sub-pixel defects on the PDP / TFT panels used in Plasma- & LCD- displays are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips professional displays guarantee that any Plasma- & LCD- displays with an unacceptable number of defects will be repaired during the warranty period in line with your local guarantee conditions.

This notice explains the different types of pixel defects and defines the acceptable defect level for the LCD screen. In order to qualify for repair under warranty, the number of pixel defects must exceed a certain level as shown in the reference table. If the LCD screen is within specification a warranty exchange / claim back will be refused. Additionally, because some types or combinations of pixel defects are more noticeable than others, Philips sets even higher quality standards for those.

## 10.1. Pixels and Sub-Pixels



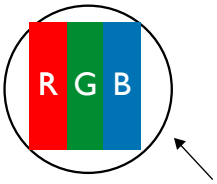

A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels together appear as a single black pixel. Other combinations of lit and dark sub-pixels appear as single pixels of other colors.

## 10.2. Types of Pixel Defects + Dot Definition

Pixel and sub-pixel defects appear on the screen in different ways. There are three categories of pixel defects and several types of sub-pixel defects within each category.

Dot definition = What is a defective "Dot"? :

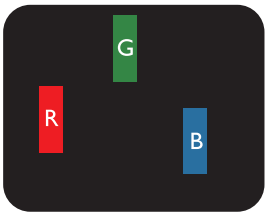
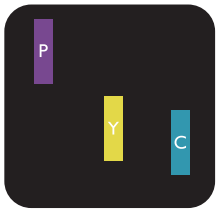
One or more defective, adjacent sub-pixel are defined as one "dot". The no. of defective sub-pixels are not relevant to define a defective dot. This means that a defective dot can consist of one, two or three defective sub-pixels which can be dark or lit.




One dot = One Pixel; consists of three sub-pixels of Red, Green, and Blue.

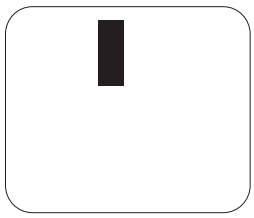
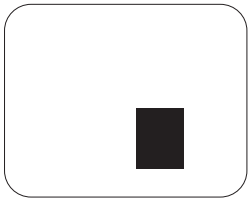
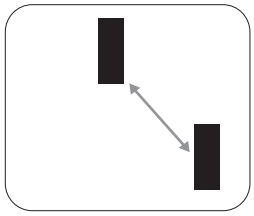
## 10.3. Bright Dot Defects

Bright dot defects appear as pixels or sub-pixels that are always lit or "on". These are the examples of bright dot defects:

| | | |
|---|---|---|
|  |  |  |
| One lit red, green or blue sub pixel | Two adjacent lit sub pixels:<br>Red + Blue = Purple<br>Red + Green = Yellow<br>Green + Blue = Cyan (Light Blue) | Three adjacent lit sub pixels (one white pixel) |

## 10.4. Dark Dot Defects

Black dot defects appear as pixels or sub-pixels that are always dark or “off”. These are the examples of black dot defects:

| | | |
|---|---|---|
|  |  |  |
| One dark dot | Two adjacent dark dots = 1 pair of dark dots | Two dark dots, specifications defines the minimum distance between dark dots |

## 10.5. Proximity of Pixel Defects

Because pixel and sub-pixels defects of the same type that are nearby one another may be more noticeable, Philips also specifies tolerances for the proximity of pixel defects. In the table below you can find specifications about:

- Allowed amount of adjacent dark dots = (adjacent dark dots =1 pair of dark dots)
- Minimum distance between dark dots
- Total no. of all defective dots

## 10.6. Pixel Defect Tolerances

In order to qualify for repair due to pixel defects during the warranty period, a PDP / TFT panel in a Philips Plasma / LCD- display must have pixel or sub-pixel defects exceeding the tolerances listed in the following table.

| BRIGHT DOT EFFECT | ACCEPTABLE LEVEL |
|---|---|
| 1 lit sub pixel | 2 |
| BLACK DOT EFFECT | ACCEPTABLE LEVEL |
| 1 dark sub pixel | 10 |
| TOTAL DOT DEFECTS OF ALL TYPES | 12 |

Note: * 1 or 2 adjacent sub pixel defects = 1 dot defect

## 10.7. MURA

Dark spots or patches may occasionally appear on some liquid crystal display (LCD) panels. This is known within the industry as Mura, which is a Japanese term for “unevenness.” It is used to describe an irregular pattern or area in which uneven screen uniformity appears under certain conditions. Mura is a result of the deterioration of the liquid crystal alignment layer and is most commonly caused by long-term operation under high ambient temperatures. It is an industry- wide phenomenon and Mura is not repairable. It is also not covered by our warranty terms.

Mura has been around since the introduction of LCD technology and with screens getting bigger and in operation 24/7, many displays are running in low light conditions. This all adds to the possibility of Mura affecting displays.

### HOW TO SPOT MURA

There are many symptoms of Mura and also multiple causes. Several of these are listed below:

- Impurities or foreign particles in the crystal matrix
- Uneven distribution of LCD matrix during manufacturing
- Non-uniform luminance distribution of the backlight
- Panel assembly induced stress
- Flaws within the LCD cells
- Thermal induced stress - high temperature operation over long periods of time

### HOW TO AVOID MURA

Although we can not guarantee the complete eradication of Mura every time, in general the appearance of Mura can be minimized by these methods:

- Lower the backlight brightness
- Use a screen saver
- Reduce the ambient temperature around the unit

# 11. Cleaning and Troubleshooting

## 11.1. Cleaning

Caution When Using the Display

- Do not bring your hands, face or objects close to the ventilation holes of the display. The top of the display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries may occur if any body parts are brought too close. Placing any object near the top of the display could also result in heat related damage to the object as well as the display itself.
- Be sure to disconnect all cables before moving the monitor. Moving the monitor with its cables attached may damage the cables and thus cause fire or electric shock.
- Disconnect the power plug from the wall outlet as a safety precaution before carrying out any type of cleaning or maintenance procedure.

Front Panel Cleaning Instructions

- The front of the display has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface becomes dirty, soak a soft, lint-free cloth in a mild detergent solution. Wring the cloth to remove excess liquid. Wipe the surface of the display to remove dirt. Then use a dry cloth of the same type to dry.
- Do not scratch or hit the surface of the panel with fingers or hard objects of any kind.
- Do not use volatile substances such as insert sprays, solvents and thinners.

Cabinet Cleaning Instructions

- If the cabinet becomes dirty, wipe the cabinet with a soft, dry cloth.
- If the cabinet is extremely dirty, soak a lint-free cloth in a mild detergent solution. Wring the cloth to remove as much moisture as possible. Wipe the cabinet. Use another dry cloth to wipe over until the surface is dry.
- Do not use solution that contains oil to clean the plastic parts. Such product damage the plastic parts and void the warranty.
- Do not allow any water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, operating problems, electrical and shock hazards may result.
- Do not scratch or hit the cabinet with fingers or hard objects of any kind.
- Do not use volatile substances such as insert sprays, solvents and thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

Clean your machine:

If you find dirt on the glass surface during use, use a wet paper towel (to avoid dripping water) to wipe it once, and then wipe it with a dry towel (dry paper towel).

## 11.2. Troubleshooting

| Symptom | Possible Cause | Remedy |
|---|---|---|
| No picture is displayed | 1. The power cord is disconnected.<br>2. The main power switch on the back of the display is not switched on.<br>3. The selected input has no connection.<br>4. The display is in the standby mode. | 1. Plug in the power cord.<br>2. Make sure that the power switch is switched on.<br>3. Connect a signal connection to the display. |
| Interference displayed on the display or an audible noise is heard | Caused by surrounding electrical appliances or fluorescent lights. | Move the display to another location to see if the interference is reduced. |
| Color is abnormal | The signal cable is not connected properly. | Make sure that the signal cable is attached firmly to the back of the display. |
| Picture is distorted with abnormal patterns | 1. The signal cable is not connected properly.<br>2. The input signal is beyond the capabilities of the display. | 1. Make sure that the signal cable is attached firmly.<br>2. Check the video signal source to see if it is beyond the range of the display. Please verify its specifications with this display's specification section. |
| Image display doesn't fill up the full size of the screen | 1. The zoom mode is not set correctly.<br>2. Scan Mode may be set incorrectly to underscan.<br>3. If the image exceeds the screen size, Scan Mode may need to be set to Underscan. | Use the Zoom mode or custom zoom<br>display geometry and time frequency parameter. |
| Can hear sound, but no picture | Source signal cable is connected improperly. | Make sure that both video inputs and sound inputs are correctly connected. |
| Can see picture but no sound is heard | 1. Source signal cable is connected improperly.<br>2. Volume is turned all the way down.<br>3. {Mute} is turned on.<br>4. No external speaker is connected. | 1. Make sure that both video inputs and sound inputs are connected correctly.<br>2. Press [+] or [—] button to hear sound.<br>3. Switch MUTE off by using the [🔇] button.<br>4. Connect external speakers and adjust the volume to a suitable level. |
| Some picture elements do not light up | Some pixels of the display are off. | This display is designed using an extremely high level of precision technology: however, sometimes some pixels of the display may not display. This is not a malfunction.. |
| After-Images can still be seen on the display after the display is powered off. (Examples of still pictures include logos, video games, computer images, and images displayed in 4:3 normal mode) | A still picture is displayed for an over extended period of time | Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain on the display. |

# 12. Technical Specifications

Display:

| Item | Specifications | | |
|---|---|---|---|
| | 65BDL4252E | 75BDL4252E | 86BDL4252E |
| Screen Size (Active Area) | 163.9 cm / 65 inches | 189.3 cm / 75 inches | 217.4 cm / 86 inches |
| Aspect Ratio | 16:9 | 16:9 | 16:9 |
| Resolution | 0.372 (H) x 0.372(V) [mm] | 0.42975 (H) x 0.42975 (V) [mm] | 0.4935 (H) x 0.4935 (V) [mm] |
| Pixel pitch | 3840 (H) x 2160 (V) | 3840 (H) x 2160 (V) | 3840 (H) x 2160 (V) |
| Displayable colors | 1.07B(10bit) | 1.07B(10bit) | 1.07B(10bit) |
| Brightness (typical) | 400 cd/m2 | 400 cd/m2 | 400 cd/m2 |
| Contrast ratio (typical) | 1200:1 | 1200:1 | 1200:1 |
| Viewing angle | 178° (H/V) | 178° (H/V) | 178° (H/V) |

In/Out Terminals:

| Item | | Specifications |
|---|---|---|
| Speaker Output | Internal Speakers | 20W(L)+20W(R)[RMS]/60Ω<br>78dB/W/M/260Hz-20KHz |
| Audio Output | 3.5mm phone jack x 1 | 0.5V [rms] (Normal) / 2 Channel (L+R) |
| Audio Input | 3.5mm phone jack x 1 | 0.5V [rms] (Normal) / 2 Channel (L+R) |
| RS232 | DB9 | RS232 |
| RJ-45 | RJ-45 jack x2 | 10M/100M/1000Mbps LAN port |
| HDMI Input | HDMI jack x3<br>(Type A) (19 pin) | Digital RGB: TMDS (Video + Audio)<br>MAX: Video - 3840 x 2160/60 Hz |
| VGA Input | DB15 | Digital RGB: TMDS (Video + Audio)<br>MAX: 1920x1080/60Hz (FHD) |
| USB-B | USB-B x 2 | Connect touch function to external PC |
| USB Input | USB3.0 TypeA x 4<br>USB2.0 TypeA x 1 | USB3.0/2.0, Multimedia play and service port<br>USB2.0: 5V⎓0.5A; USB3.0: 5V⎓0.9A |
| USB3.1 C | Type C x 2 | Front Type-C (when OPS terminal load:18Vdc 3.5A):5Vdc/3.0A, Max 15W<br>Front Type-C (when OPS terminal without load): 5V/9V/15Vdc 3A, 20Vdc 3.25A, Max 65W<br>Side Type-C: 5Vdc/3.0A, Max 15W |

General:

| Item | Specifications | | |
|---|---|---|---|
| | 65BDL4252E | 75BDL4252E | 86BDL4252E |
| Power Input | 100 - 240V~, 50/60Hz | 100 - 240V~, 50/60Hz | 100 - 240V~, 50/60Hz |
| Power Consumption (Typ.) | 99 W | 125 W | 143 W |
| Power Consumption (Max.) | 310 W | 340 W | 375 W |
| Power Consumption (Standby mode & Off mode) | ≤0.5 W | ≤0.5 W | ≤0.5 W |
| AC Switch Off Mode (W) | 0 W | 0 W | 0 W |
| Dimensions (Without Stand) [W x H x D] | 1488.4 X 907.5 X 97.3mm | 1709.4 X 1031 X 97.3 mm | 1957 X 1170.8 X 97.1 mm |
| Weight (Without Stand) | 28.44 kg | 39.52 kg | 51.25 kg |
| Gross Weight (Without Stand) | 39 kg | 55 kg | 70 kg |

Environmental Condition:

| Item | | Specifications |
|---|---|---|
| Temperature | Operational | 0 - 40°C |
| | Storage | -20 - 60°C |
| Humidity | Operational | 10 - 90% RH |
| | Storage | 10 - 90% RH |
| Altitude | Operational | Below 5000 meters |

Note: This IWB device does not support rotation function.

# Warranty Policy for Philips Professional Displays

Thank you for purchasing this Philips product. Philips products are designed and manufactured with high standards and deliver high quality performance, ease of use and ease of installation. If you encounter any difficulties while using your product, we recommend that you first consult the user manual or the information in the support section of the website, where (depending on the product type) you may find a downloadable user manual, frequently asked questions, instruction videos or a support forum.

LIMITED WARRANTY

In the unlikely event the product requires service, we will arrange for your Philips product to be serviced free-of-charge within the warranty period, provided that the product was used in accordance with the user manual (e.g. in the intended environment).

For these product categories, MMD Hong Kong Holding Limited, a partner company of Philips, is the warrantor of the product. Please check the documentation supplied with your product.

WHO IS COVERED?

Your Warranty coverage begins from the first date of purchase of the product. You need to provide proof of purchase to receive warranty service. A valid sales receipt or other valid document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

If any defect due to faulty materials and/or workmanship occurs within the warranty period, we will make arrangements for a free of charge service. Where a repair is not possible or not commercially viable, we may replace the product with a new or equivalent refurbished product with similar functionality. Replacement will be offered at our discretion and the warranty will continue from the date of original purchase of the first date of purchase of the product. Please note that all parts, including repaired and replaced parts, are covered only for the duration of the original warranty period.

WHAT IS EXCLUDED? Your warranty does not cover:

- Consequential damages (including but not limited to loss of data or loss of income), nor compensation for activities done by yourself, such as regular maintenance, installing firmware updates or saving or restoring data (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of various types of external devices (e.g., WiFi, antenna, USB dongles, OPS type devices) and other systems outside of the product.
- Reception problems caused by signal conditions or cable or antenna systems outside the unit.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- If the model or production number on the product has been altered, deleted, removed or made illegible.

The warranty applies on condition that the product has been handled properly for its intended use and in accordance with the operating instructions

To Obtain Warranty Service And Information

For detailed warranty coverage information and additional support requirement and help line, please contact the seller and/or system integrator you purchased the product from. Please note in the USA, this limited warranty is only valid for Products purchased in the Continental United States, Alaska, and Hawaii.

Before Requesting Service

Please check your user's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

WARRANTY PERIOD

Warranty period for PHILIPS signage display is listed as below, for areas not covered in this table, please follow their warranty statement.

Standard warranty period for PHILIPS signage display is listed as below, for areas not covered in this table, please follow the local warranty statement.

| Region | Standard Warranty Period |
|---|---|
| USA, Canada | 3 years |
| China | 3 years |
| Japan | 3 years |
| Rest of world | 3 years |
| Mexico | 3 years |
| Brazil | 3 years |
| Chile | 3 years |
| Peru | 3 years |

Note that for professional products, the specific warranty terms of the sale- or purchase agreement may apply.

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Specifications are subject to change without notice.

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