

PHILIPS

Collaboration Display

4000 Series

65BDL4152E

75BDL4152E

86BDL4152E



User Manual (English)

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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:

This product is intended for use in professional installations in business settings only and is not suitable for domestic purposes. Any use other than that for which this device is intended can void the warranty.

This product contains an operating system. If it is shut down directly using the AC switch, it may damage the program and prevent it from powering on again. If the system is unable to power on due to frequent shutdowns, please try a factory reset. Please note that all data stored in the system will be lost when the display is rebooted after a factory reset.

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.
- 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.
- The eye bolt is for usage in short-time maintenance and installation. We suggest not to use the eye bolt for more than 1 hour. Prolong usage is prohibited. Please keep a clear safety area under the display while using the eye bolt.

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.
 - Temperature: 0-40°C 32-104°F
 - Humidity: 20-80% RH
- LCD panel temperature need to be 25 degrees Celsius at all time for better luminance performance.

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/UK 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), ErP directive (2009/125/EC).The Radio Equipment Directive(2014/53/EU) or Radio Equipment Regulations 2017(for UK).

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 / ISED's licence-exempt RSSs 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.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée 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.

TPV USA Corp
6525 Carnegie Blvd #200
Charlotte, NC 28211
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 20cm 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 kolkiem). 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 gniazda, 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.

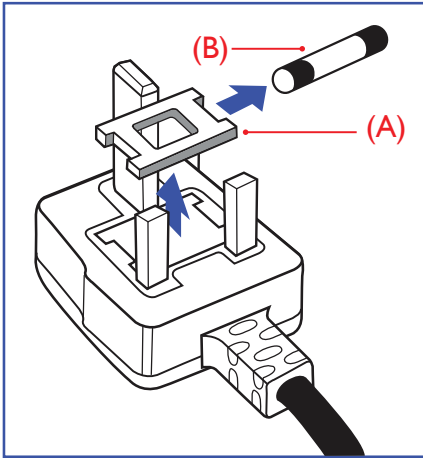
Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kolka 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 bezzakłóceńowego 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:

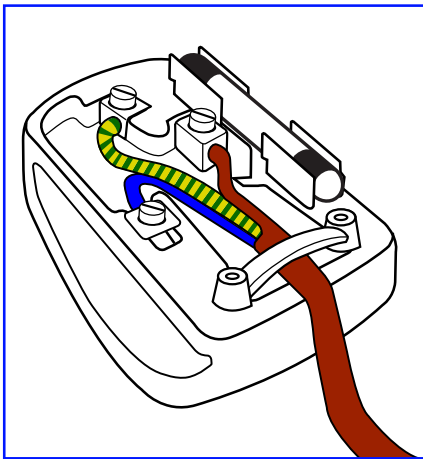
This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:+

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:

SIIJOITA 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.

China RoHS

根据中国大陆《电器电子产品有害物质限制使用管理办法》，以下部分列出了本产品中可能包含的有害物质的名称和含量。

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
外壳	O	O	O	O	O	O
液晶显示屏	X	O	O	O	O	O
电路板组件*	X	O	O	O	O	O
电源适配器	X	O	O	O	O	O
电源线/连接线	X	O	O	O	O	O
遥控器	X	O	O	O	O	O

本表格依据SJ/T 11364 的规定编制。

*: 电路板组件包括印刷电路板及其构成的零部件，如电阻、电容、集成电路、连接器等。

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。

上表中打“X”的部件，应功能需要，部分有害物质含量超出GB/T26572规定的限量要求，但符合欧盟RoHS法规要求（属于豁免部分）。

备注：上表仅做为范例，实际标示时应依照各产品的实际部件及所含有害物质进行标示。



环保使用期限

此标识指期限（十年），电子电气产品中含有的有害物质在正常使用的条件下不会发生外泄或突变，电子电气产品用户使用该电子电气产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限。

《废弃电器电子产品回收处理管理条例》提示性说明

为了更好地关爱及保护地球，当用户不再需要此产品或产品寿命终止时，请遵守国家废弃电器电子产品回收处理相关法律法规，将其交给当地具有国家认可的回收处理资质的厂商进行回收处理，不当利用或者处置可能会对环境和人类健康造成影响。

警告：在居住环境中，运行此设备可能会造成无线电干扰。

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。

警告使用者：

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

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 10 березня 2017 р. № 139

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.

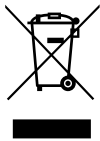
Please find out about the local regulations on how to dispose of your old display from your local Philips dealer.

(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)

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.



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 "factory default" settings and this is the setting in which power savings will be achieved.

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

For more information on the ENERGY STAR program, refer to energystar.gov.

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 directive 2006/66/EC, 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.

Information for EAC	
Month and year of manufacturing	please refer information in Rating label.
Name and location of manufacturer	ООО "Профтехника" Адрес: 3-й Проезд Марьиной рощи, 40/1 офис 1. Москва, 127018, Россия
Importer and information	Наименование организации: ООО "Профтехника" Адрес: 3-й Проезд Марьиной рощи, 40/1 офис 1. Москва, 127018, Россия Контактное лицо: Наталья Астафьева, +7 495 640 20 20 nat@profdisplays.ru

Information for FAC:

"Подтверждение соответствия Мининформсвязи России: Декларация соответствия № Д-PD-4342 от 01.09.2016 года, действительна до 01.09.2024 года, зарегистрирована в Федеральном агентстве связи 14.09.2016 года"

2. Unpacking and Installation

2.1. Unpacking

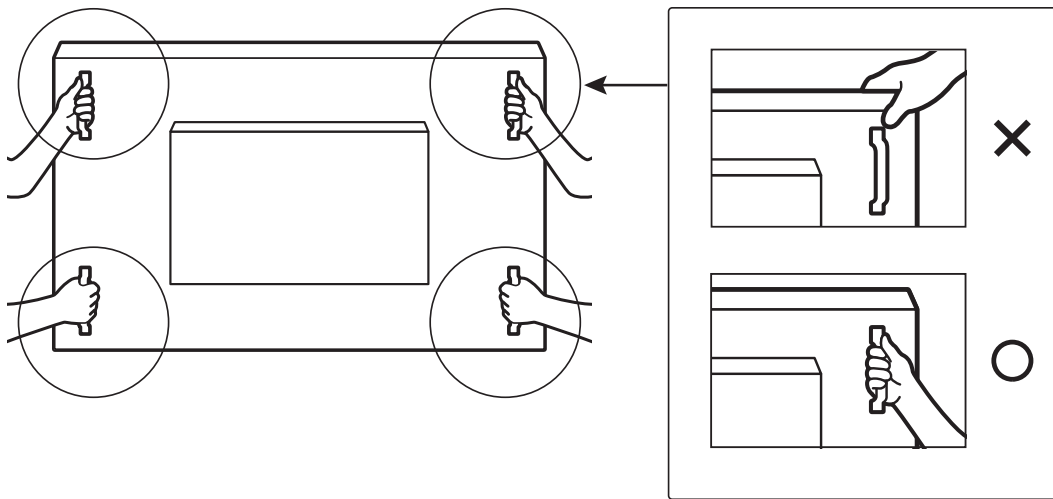
- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- As this product is high and heavy, the operation of moving the device is recommended to be performed by two technicians.
- After opening the carton, ensure that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

■ Before Unpacking

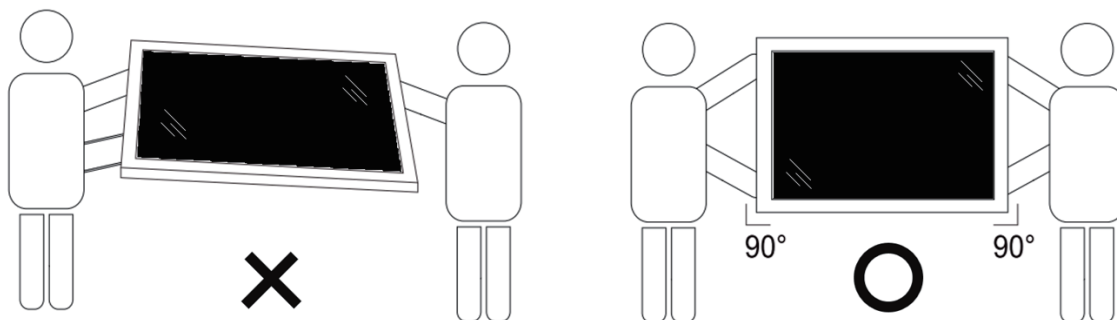
- Please read and fully understand unpacking notice before installation.
- Please check the packaging for any abnormalities, such as creaking, dents, etc.
- Please do necessary inspection before you move the display out of the carton.
- Always have an experienced technician install the display to prevent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

■ Notice

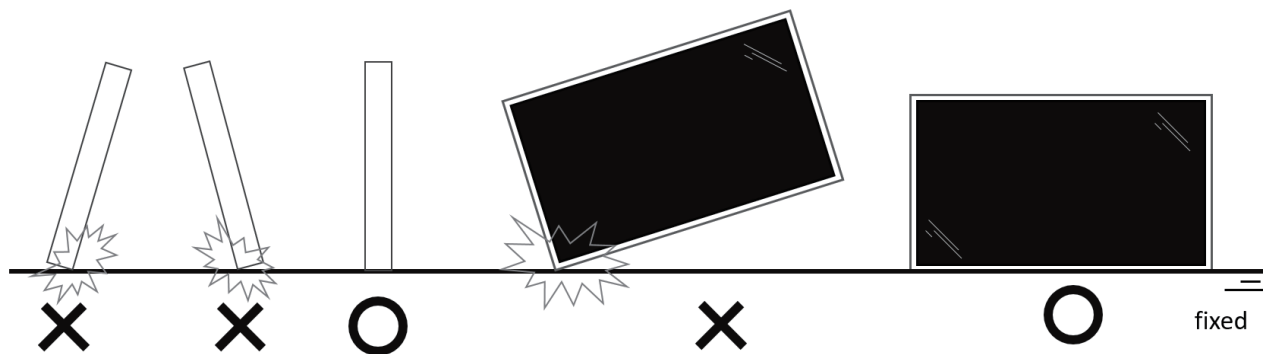
- Take the display out of the carton box by two or four adults with both hands.
- Hold onto the handles when moving the display.



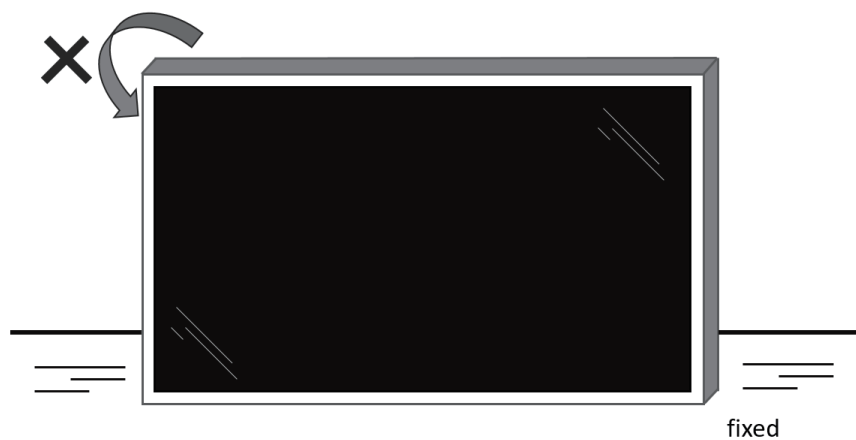
- Please keep the display upright when moving it.



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

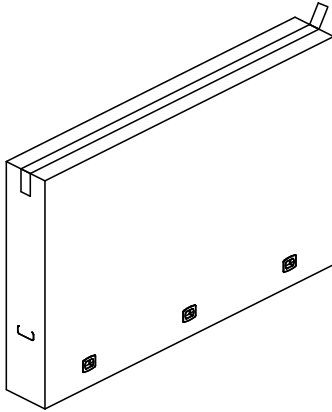


- Keep the display upright, without bending or twisting it while moving.

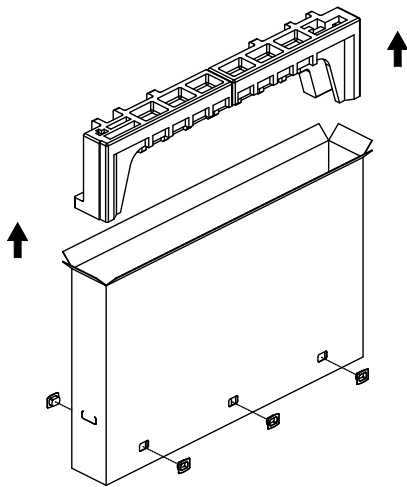


■ Unpacking Process

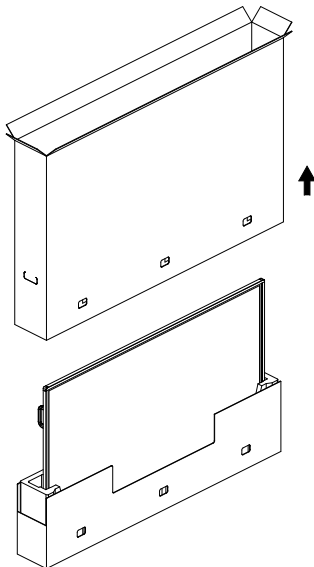
1. Remove the tape.



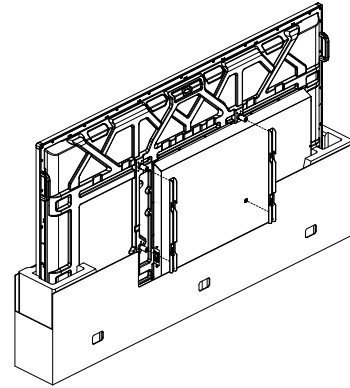
2. Remove all accessories and top cushion from the top opening of the packaging.



3. Discard the cardboard and open the packing bag.

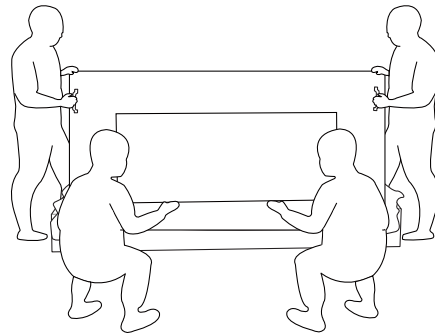


4. Install the wall mount kit (*) while the display is still in the bottom cushion. (* need to purchase separately)

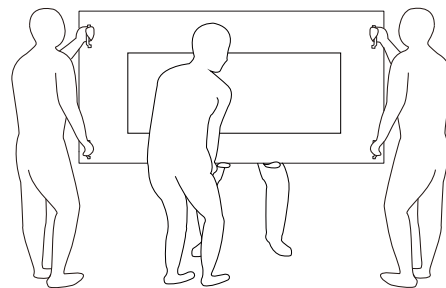


*** The recommended number of professional personnel for unpacking and installation is at least 2 for 65" & 75" models, and 4 for the 86" model.**

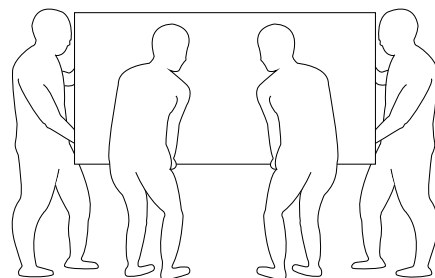
5. Two people on the sides should hold the top handles from the back of the display, while two others help hold the display from the bottom.



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.



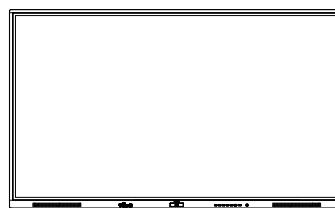
7. The person who was initially at the back of the display should move to the front, so that all four people can mount the display onto the wall.



2.2. Package Contents

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

- LCD Display
- Quick start guide
- Remote Control and AAA batteries
- Power cord
- Touch USB
- Touch pen (CRD 26)
- AC Switch Cover
- CRD32 Wi-Fi module
- Cleaning cloth
- Philips logo plate



LCD display

* The supplied power cord varies depending on destination.



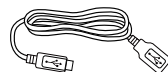
Remote Control and AAA Batteries



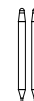
Quick start guide



Power Cord



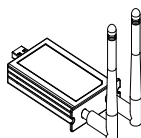
Touch USB



Touch pen (CRD26)



AC Switch Cover



CRD32 Wi-Fi module



Cleaning cloth



Philips logo plate

* Items may differ in different locations

* Display design and accessories may differ from the images shown.

NOTES:

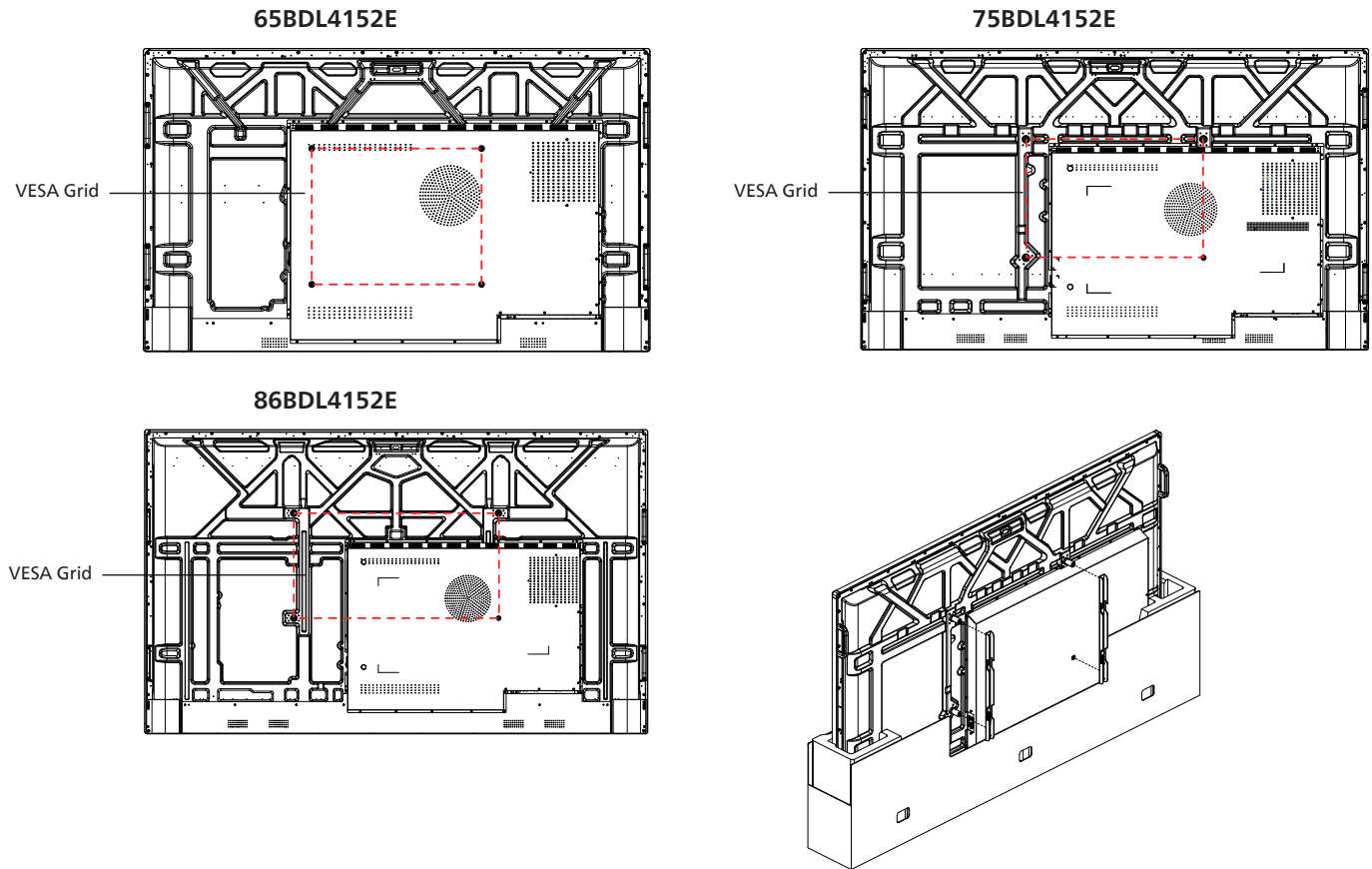
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country (Type H05W-F, 2G or 3G, 0.75 or 1 mm² should be used).
- Keep the packaging materials appropriately after unpacking 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 5000m 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.

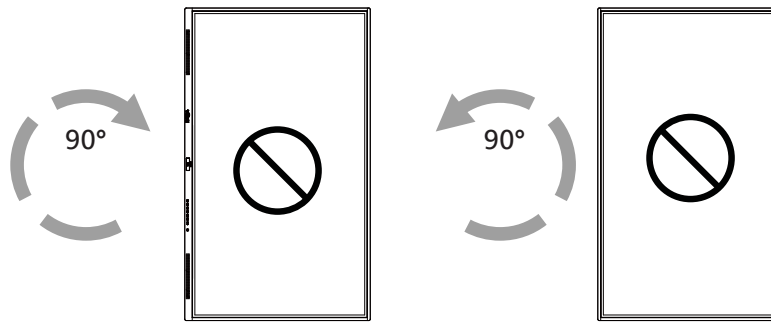


1. To avoid unnecessary collisions that may cause screen damage, we recommend installing the wall-mounting kit while the display is still in the bottom cushion.
2. When installing the wall-mounting kit, someone must support the display to prevent it from tipping over.
3. Follow the instructions that came with the wall-mounting kit. Failure to follow the correct mounting procedures could result in damage to the display, or injury to the user or 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.

VESA Grid

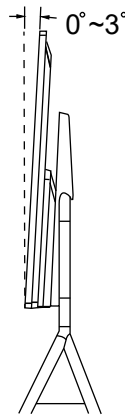
65BDL4152E	500(H) x 400(V) mm
75BDL4152E	600(H) x 400(V) mm
86BDL4152E	800(H) x 400(V) mm

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:

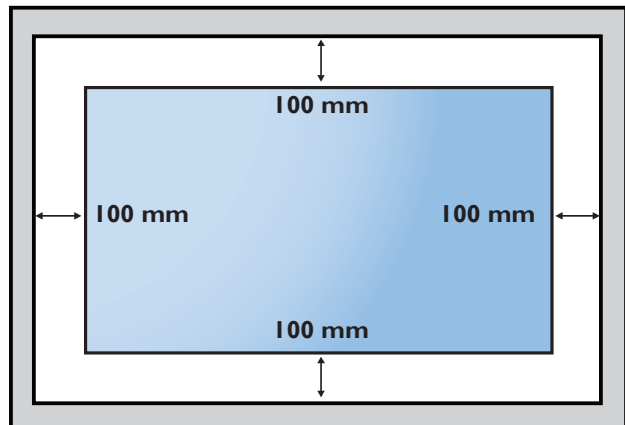
To prevent the display from falling:

- For wall or ceiling 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

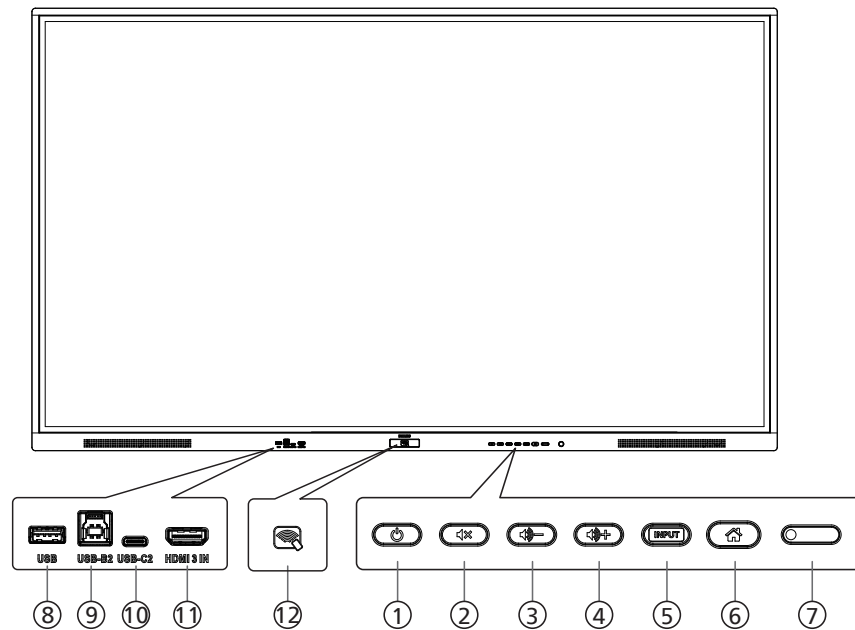
Leave a space of 100 mm at the top, rear, right and left of the display for ventilation.

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 [] button

Press this button to turn the display on or put it in standby mode.

② [] button

Press this button to mute or unmute the sound.

③ [] button

Decrease the audio output level.

④ [] button

Increase the audio output level.

⑤ [INPUT] button

Select an input source.

⑥ [] button

Go to Home screen.

⑦ Remote control sensor and power status indicator

- Receive command signals from the remote control.
- Indicate the operating status of the display:
 - Light green when the display is turned On
 - Light red when the display is in the standby mode
 - Lights off when the main power of the display is turned off

*** Use an IR sensor cable for better remote control performance. (Please refer to the instructions on 28)**

⑧ USB PORT

Connect to a USB storage device.

⑨ USB-B 2

Touch connector to PC.

⑩ USB-C 2

Support display and touch function.

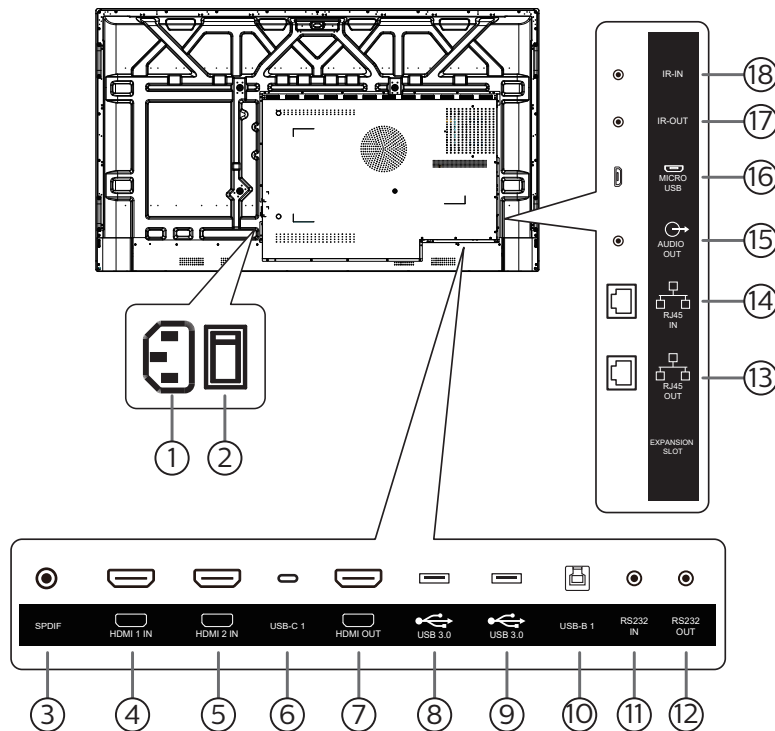
⑪ HDMI 3 IN

HDMI video/audio input.

⑫ NFC

NFC near-field communication.

3.2. Input/Output Terminals



① AC IN

AC power input from the wall outlet.

② MAIN POWER SWITCH

Switch the main power between On and Off.

③ SPDIF

Digital audio output.

④ HDMI1 IN / ⑤ HDMI 2 IN

HDMI video/audio input.

⑥ USB-C1

Support display and touch function.

⑦ HDMI OUT

HDMI video/audio output.

⑧ USB 3.0 / ⑨ USB 3.0

Connect to a USB storage device.

⑩ USB-B1

Touch connector to PC.

⑪ RS232 IN / ⑫ RS232 OUT

RS232 network input / output for the loop-through function.

⑬ RJ-45 OUT / ⑭ RJ-45 IN

The LAN control function is used for sending the remote control signal from the control center.

⑮ AUDIO OUT

Audio output to external AV device.

⑯ MICRO USB

Support ADB data transmission and OTG.

⑰ IR OUT / ⑱ IR IN

IR signal input / output for the loop-through function.

NOTES:

- This display's remote control sensor will stop working if the jack [IR IN] is connected.
- To remotely control your A/V device via this display, refer to page 28 for IR Pass Through connection.

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

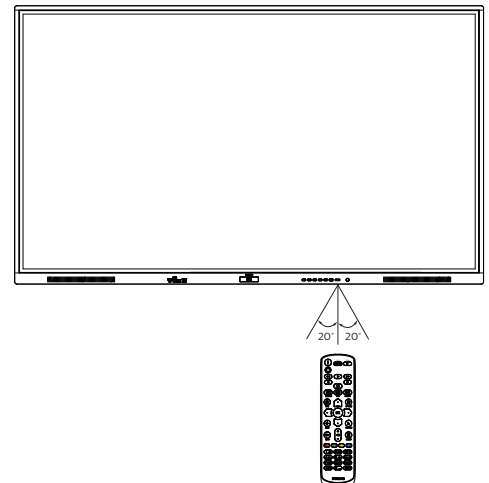
- Do not drop or apply shock to the remote control.
- Do not allow any liquid to get inside the remote control. If water has entered the remote control, wipe the remote control with a dry cloth immediately.
- Do not place the remote control near heat and steam sources.
- Do not attempt to disassemble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

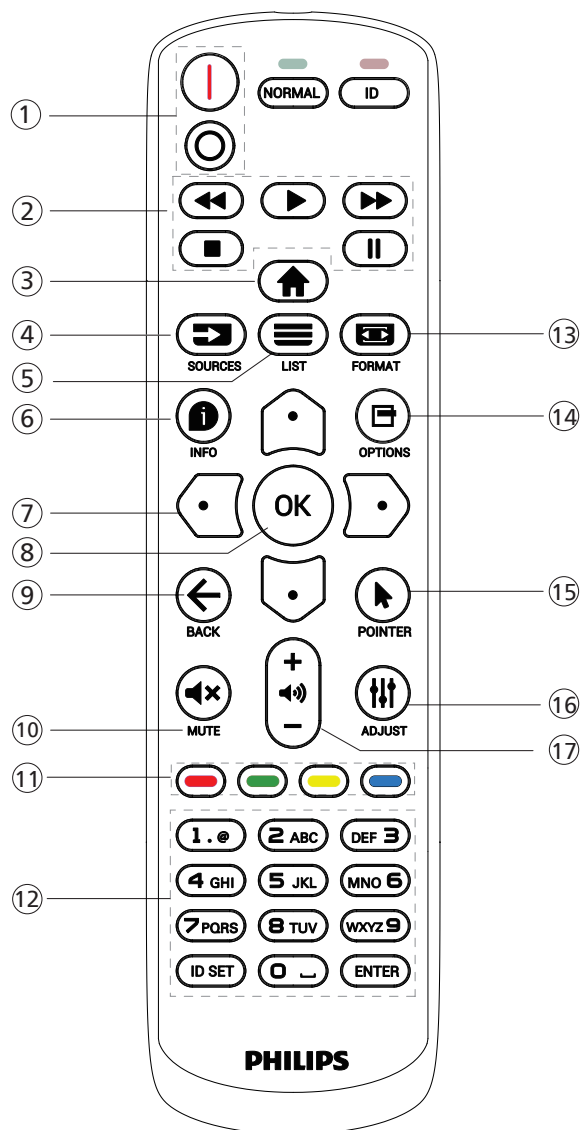
Use the remote control within a distance of less than 4m/16ft from the display's sensor, and a horizontal and vertical angle of less than 20°.

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 [I/O] **POWER** button

[I] Turn the power On.
[O] Turn the power Off.

② [PLAY] **buttons**

Control playback of media files.(for Media Input only)
Freeze feature
Pause: hotkey for freezing all inputs content.
Play: hotkey for unfreezing all input content.

③ [HOME] **HOME** button

Root Menu: Access the OSD menu.
Others: Exit the OSD menu.

④ [SOURCE] **SOURCE** button

Root Menu: Choose input source.

⑤ [LIST] **LIST** button

Reserved.

⑥ [INFO] **INFO** button

Show Information OSD.

⑦ **NAVIGATION** buttons

[Up] Move focus up.
[Down] Move focus down.
[Left] Move focus left.
[Right] Move focus right.

⑧ [OK] **button**

Confirm an action, entry or selection.

⑨ [←] **BACK** button

Return to the previous page or exit from the previous function.

⑩ [MUTE] **MUTE** button

Mute or unmute the sound.

⑪ [COLOR] **COLOR** buttons

Reserved.

⑫ [Number/ ID SET/ ENTER] **button**

Reserved.

⑬ [FORMAT] **FORMAT** button

Reserved.

⑭ [OPTIONS] **OPTIONS** button

Reserved.

⑮ [POINTER] **POINTER** button

Reserved.

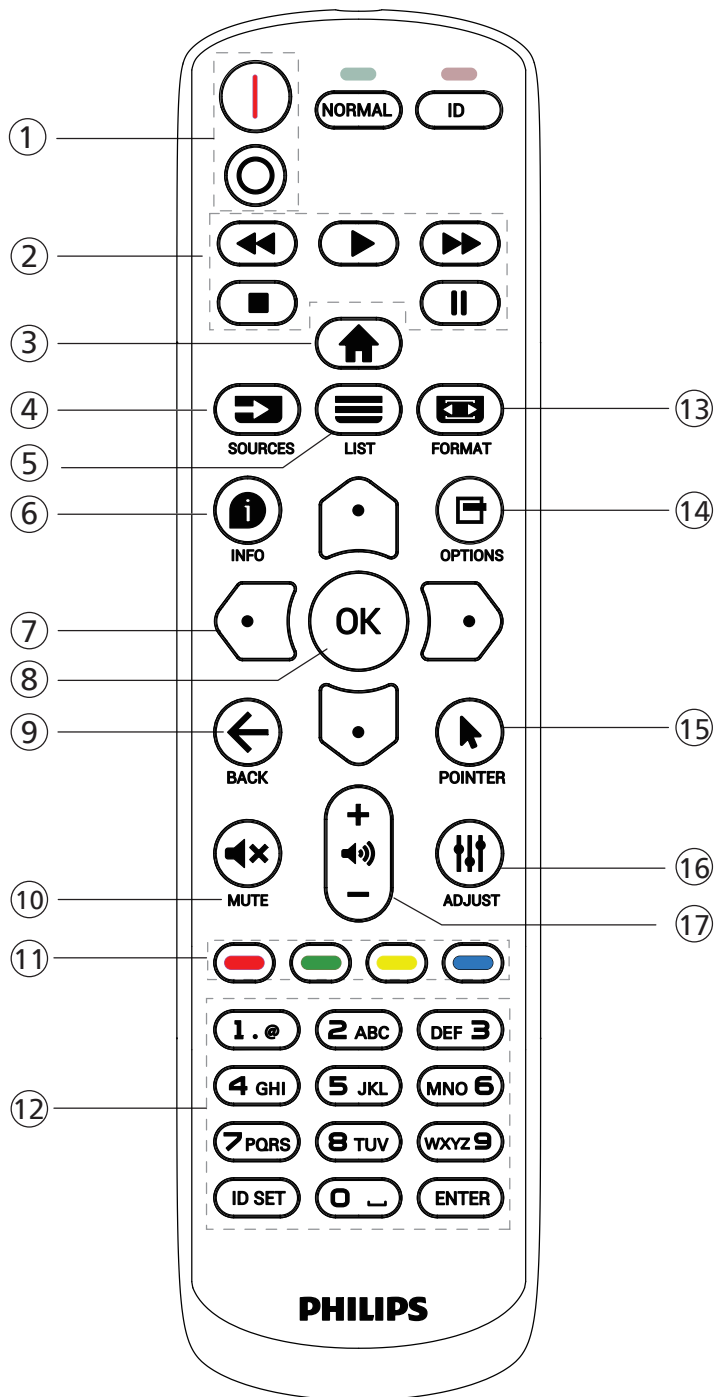
⑯ [ADJUST] **ADJUST** button

Reserved.

⑰ [VOLUME] **VOLUME** button

Adjust the volume.

3.6.2. Remote Control buttons on Signage apps



① [I/O] POWER button

Turn the display On or standby mode.
The button is only controlled by Scalar.

② [PLAY] buttons

1. Control playback of media (video/audio/picture) files.
There are 4 ways to play the media files.

1) File Manager

Find the media file from the File Manager and select it to play.

2) Media Player -> Compose -> edit or add a new playlist -> choose any media files -> press button to play the media file directly.

3) Media Player -> Play -> choose non-empty play list -> press to play all media files from the playlist.

4) Set media playlist in Boot on Source or Schedule by OSD menu.

2. When playing a video or music file, you can press button to stop playing. If you press again, playback will be started from the beginning of the file.

3. When playing a video or music file, you can press button to pause playing.

4. All media files should be located in the folder of "philips", under the root directory of the specified storage (internal/USB). All sub-folders (video/photo/music) are named by media types and shouldn't be changed.

videos: {root dir of storage}/philips/video/

photos: {root dir of storage}/philips/photo/

music: {root dir of storage}/philips/music/

Note that the root directories of three storages are

Internal storage: /sdcard

USB storage: /mnt/usb_storage

③ [HOME] HOME button

Access the OSD menu.
The button is only controlled by Scalar.

④ [SOURCE] SOURCE button

Select an input source.
The button is only controlled by Scalar.

⑤ [LIST] LIST button

1. In the content of the web page, move the focus up to the next selectable items.
2. Move the focus up to the next control or widget such as buttons.

⑥ [INFO] INFO button

1. Display information about the current input signal. It is shown by Scalar.
2. Media Player -> Compose -> edit or add a new playlist -> choose any media files -> press to show the information of the selected media file.

⑦ [NAVIGATION] buttons

1. Navigate through the menus and select an item.
2. In the content of the web page, these buttons are for controlling the scroll bar of the screen. Press or for moving the vertical scroll bar up or down. Press or for moving the horizontal scroll bar left or right.

⑧ [OK] button

Confirm an entry or selection.

⑨ [BACK] button

Return to the previous page or exit from the previous function.

⑩ [MUTE] MUTE button

Mute or unmute the sound.

The button is only controlled by Scalar.

⑪ [COLOR] COLOR buttons

Reserved.

⑫ [Number/ ID SET/ ENTER] button

ID SET  and ENTER  are reserved on Signage apps.

These buttons are only controlled by Scalar.

⑬ [FORMAT] FORMAT button

Reserved.

⑭ [TOOLBOX] OPTIONS button

Open the toolbox from Media Player.

1. Media Player ->Compose -> Edit or add a new playlist -> press  to open a toolbox. The toolbox will slide from the left side of the screen.

⑮ [POINTER] POINTER buttons

Reserved.

⑯ [ADJUST] ADJUST button

1. In the content of the web page, move the focus down to the next selectable items.

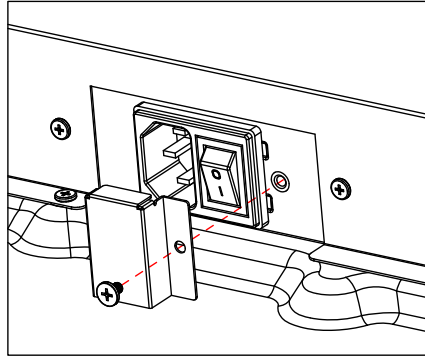
2. Move the focus down to the next control or widget such as buttons.

⑰ [VOLUME] VOLUME button

Adjust volume level. The buttons are only controlled by Scalar.

3.7. AC Switch Cover

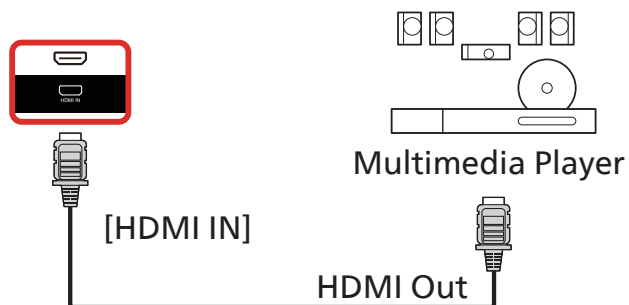
- Use AC Switch Cover to cover the AC switch.
1. Install the AC Switch Cover.
 2. Fix the AC switch cover with the screw from the accessory kit.



4. Connecting External Equipment

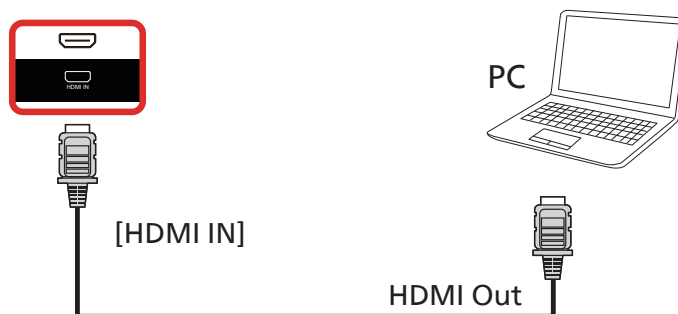
4.1. Connecting External Equipment (Multimedia Player)

4.1.1. Using HDMI video input

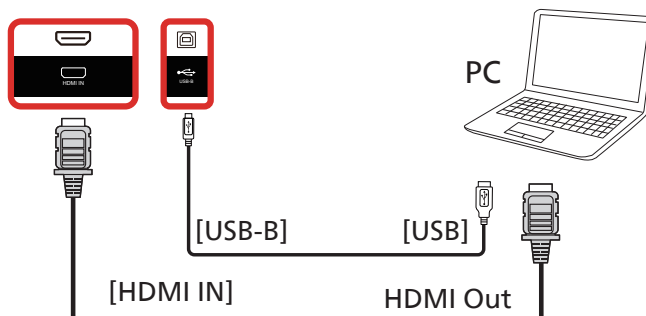


4.2. Connecting a PC

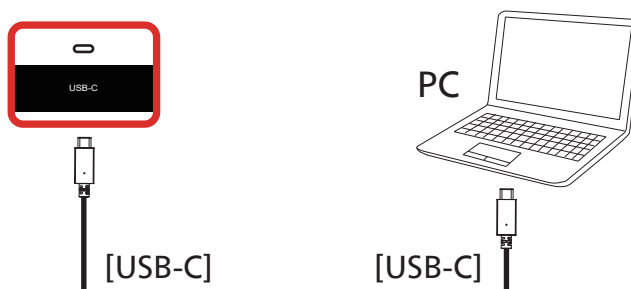
4.2.1. Using HDMI input



4.2.2. Using HDMI input with USB-B (touch connector to PC)

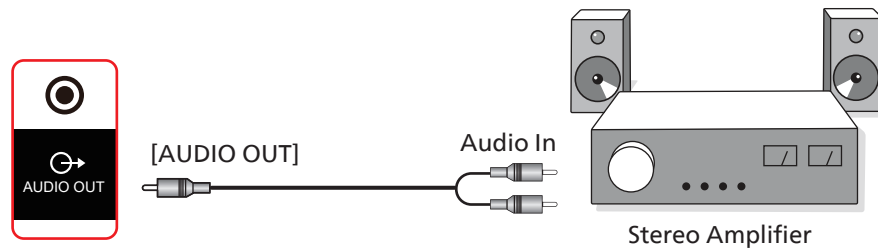


4.2.3. Using USB-C input with touch function



4.3. Connecting Audio Equipment

4.3.1. Connecting an external audio device

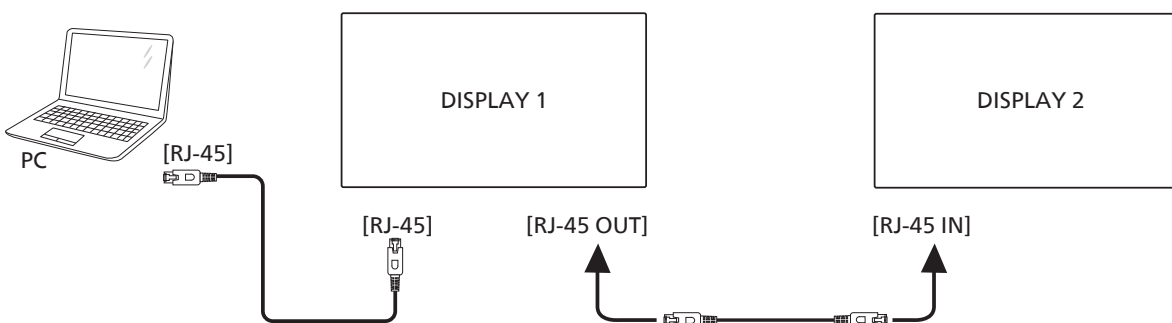
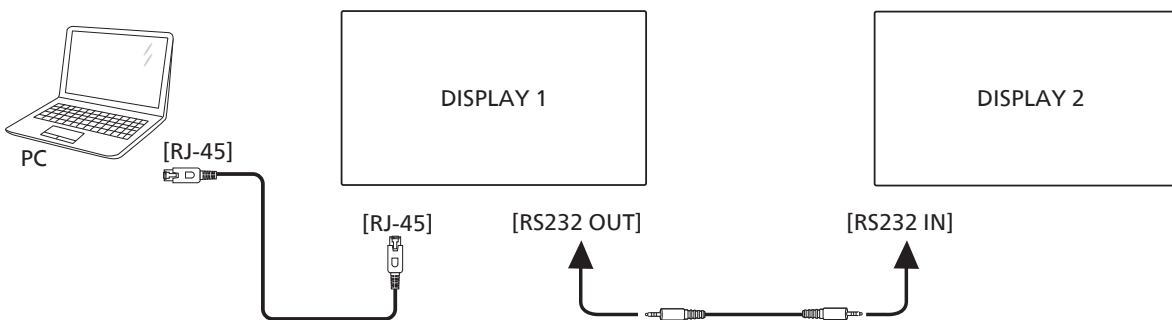
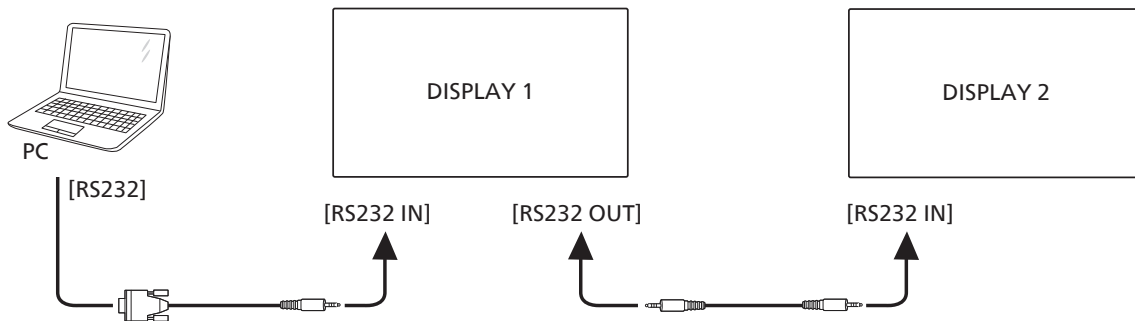


4.4. Connecting Multiple Displays in a Daisy-chain Configuration

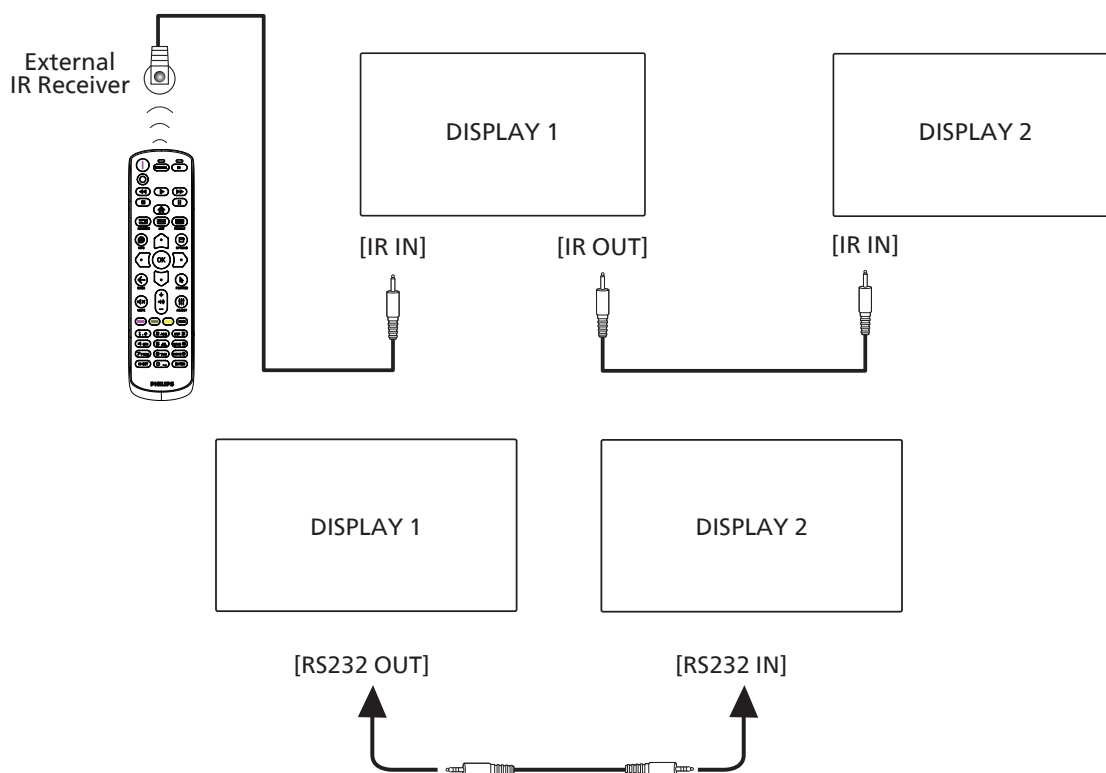
You can interconnect multiple displays to create a daisy-chain configuration for applications such as a menu board.

4.4.1. Display control connection

Connect the [RS232 OUT] connector of DISPLAY 1 to the [RS232 IN] connector of DISPLAY 2.



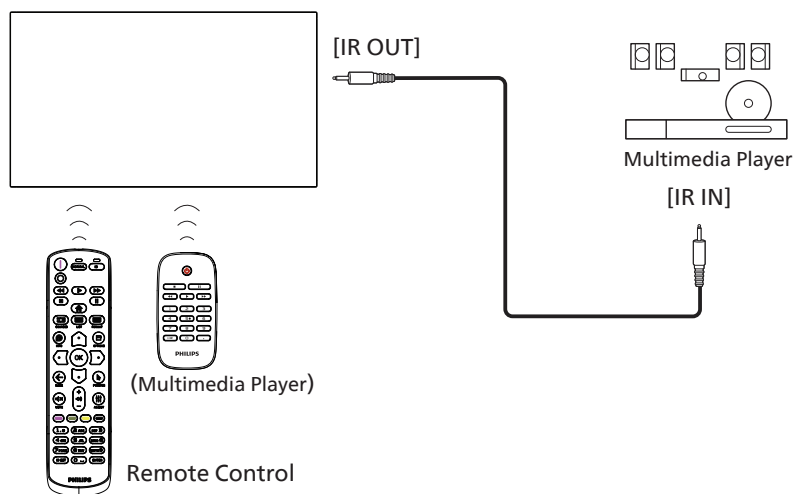
4.5. IR connection



NOTE:

1. The remote control sensor of this display will stop working if the [IR IN] is connected.
2. IR loop through connection can support up to 9 displays.
3. IR in daisy chain via RS232 connection can support up to 9 displays.

4.6. IR Pass-through Connection



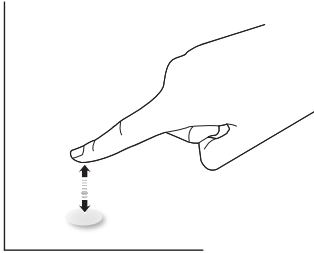
4.7. Touch Operation

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.

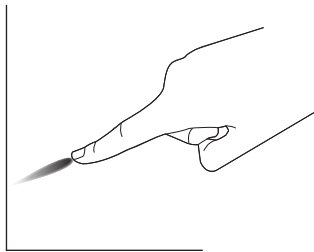
Double Tap

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



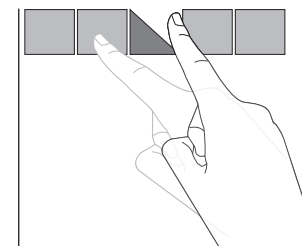
Pan

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



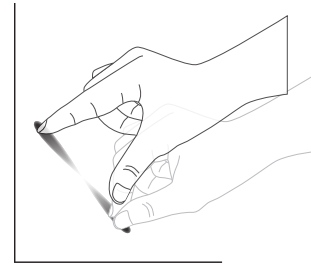
Flick

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



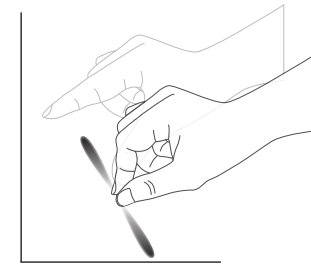
Zoom in

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



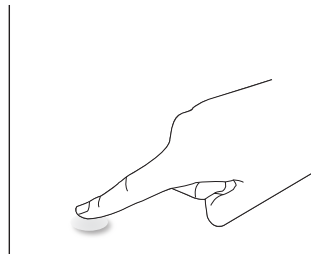
Zoom out

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.

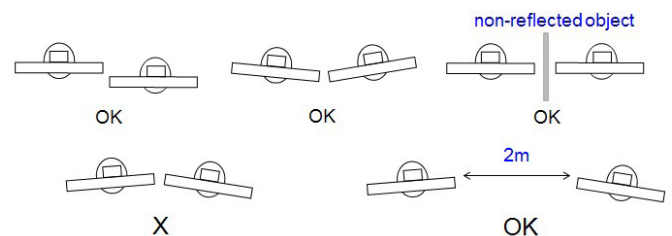
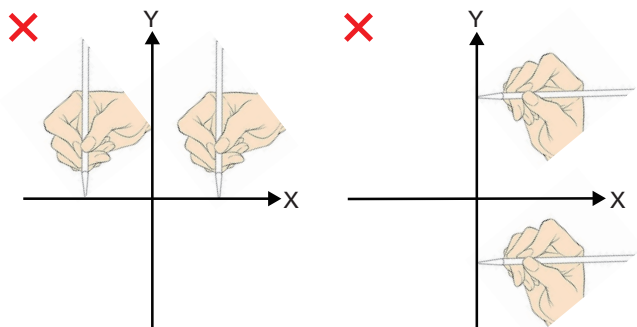
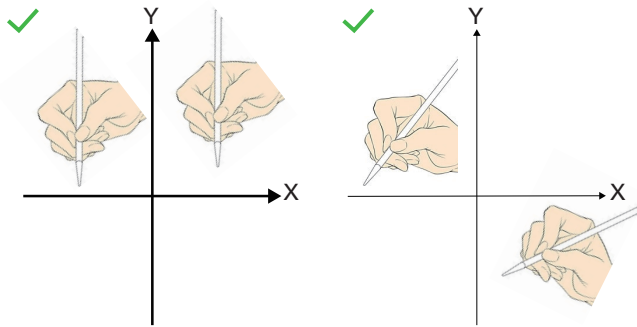


Fig. Touch screens interference

- 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.

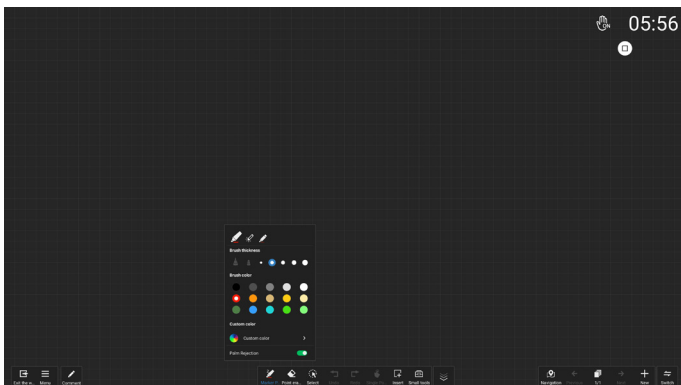


- When touching with your fingers, make sure that the maximum area of your fingertips touches the panel. Do not touch with your nails to avoid misrecognition (malfunction).

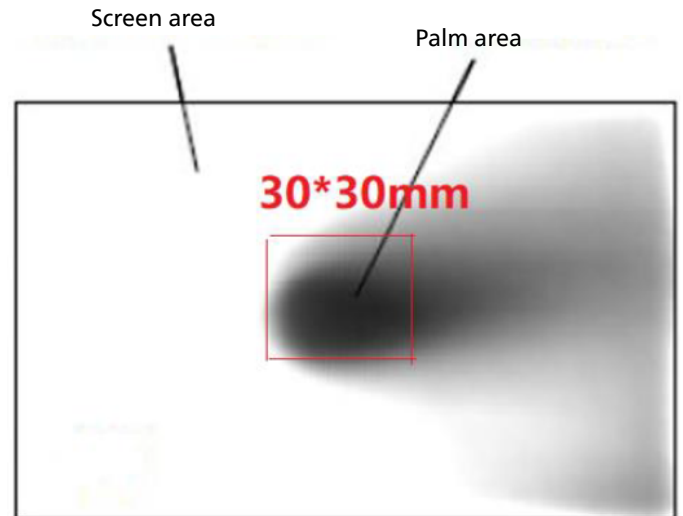


4.8. Touch Operation when Palm rejection is enabled

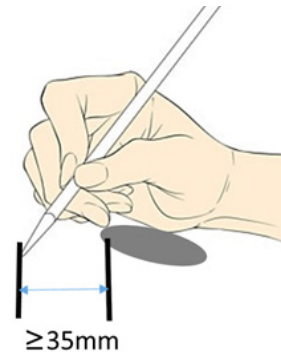
In the Whiteboard Toolbar ->Marker Pen->Palm rejection, switch the palm rejection to on.



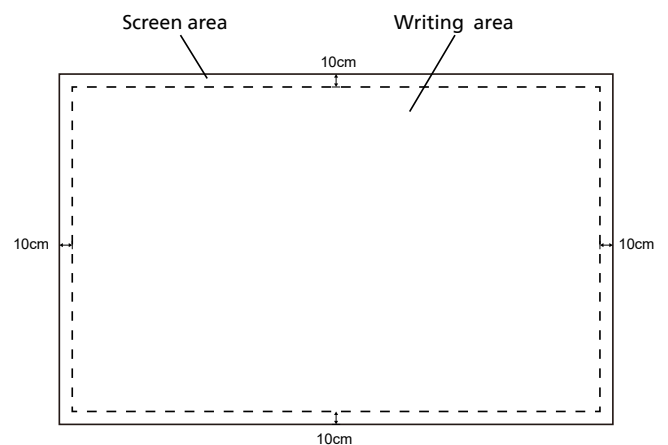
- The palm area should be at least 30 * 30mm.



- The distance between the writing pen tip and the palm must be $\geq 35\text{mm}$.



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



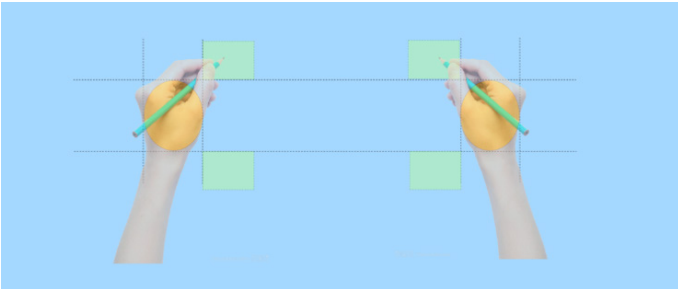
- It only supports writing with one pen and palm.

NOTE:

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

"Palm Rejection" and "4-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.

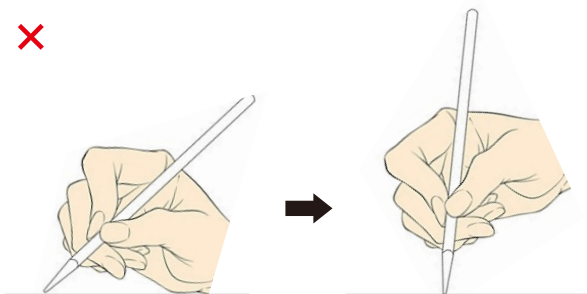
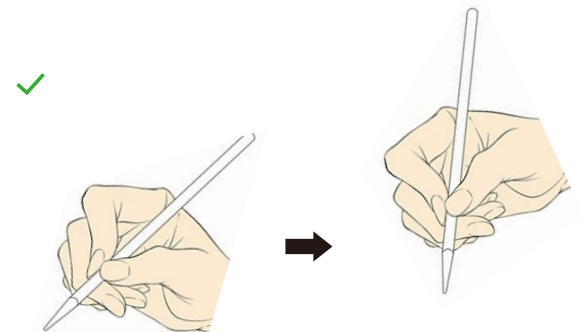


6. Palm Rejection: Writing Accuracy $\geq 85\%$.

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, Windows 8/ Windows 8.1, Windows 10, Windows 11		
Supported Modes of Operation by the Operating System	OS	Single Touch	Multi Touch
	Windows 10, Windows 11	O	O*
	macOS® 13	O	X
	Powered by Android™ 14	O	O**
	ChromeOS	O	X
	Linux®	O	X
	* There are many OEM versions of Windows systems, which may not support multi touch function. The standard version on the official website can support multi touch function. ** The maximum number of touch points may be limited by the application and cannot support 50 touchpoints.		

1. We highly recommend that you use the latest Service Pack with all Windows 7 OS.
2. Set as default by Microsoft.
3. Windows: Windows is a trademark of Microsoft.
4. macOS®: Operating system software. macOS® is a trademark of Apple Inc.
5. Google, Android, Google Play, ChromeOS and other marks are trademarks of Google LLC.
6. Linux®: Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

5. Operation

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

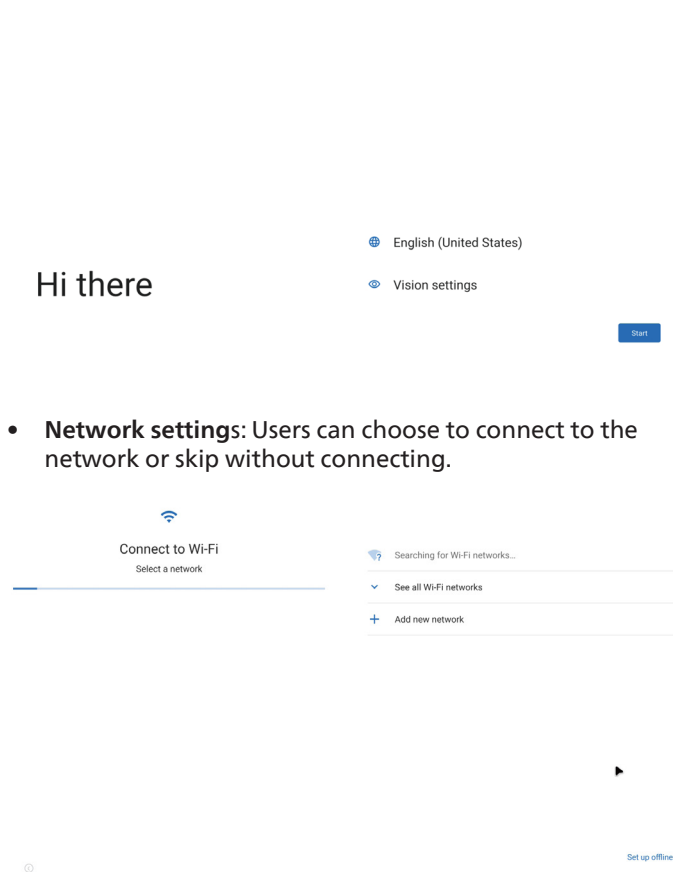
5.1. Watch the Connected Video Source

1. Press the [↔] SOURCE button.
2. Press [⏏] or [📺] button to select a device, then press [OK] button.

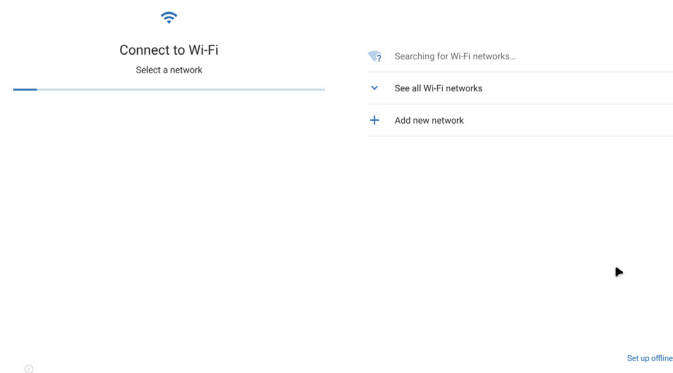
5.2. Google Out-of-Box Experience

The new setup wizard contains below steps:

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

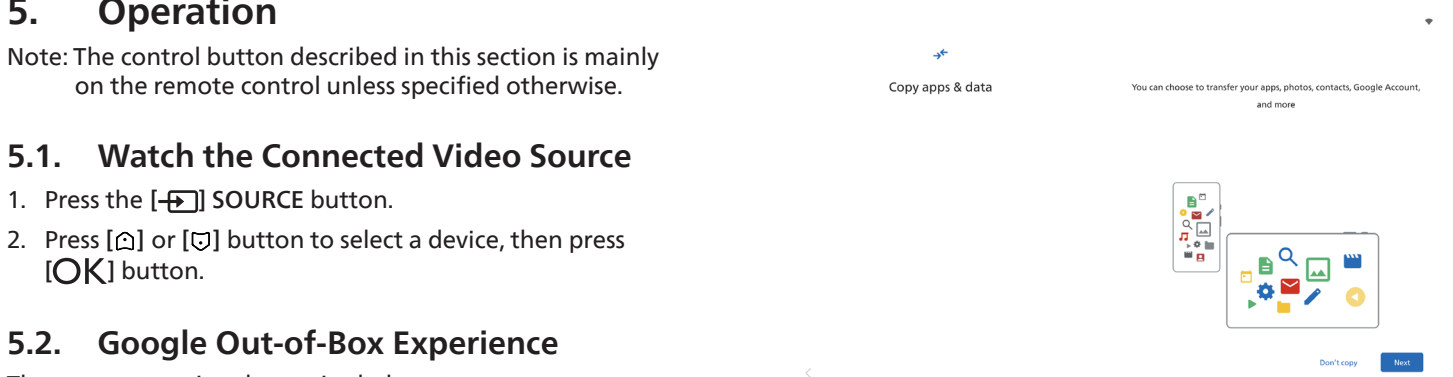


- **Network settings:** Users can choose to connect to the network or skip without connecting.



Note: To access the full Google experience (Gmail, Google Play, and more), users 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.

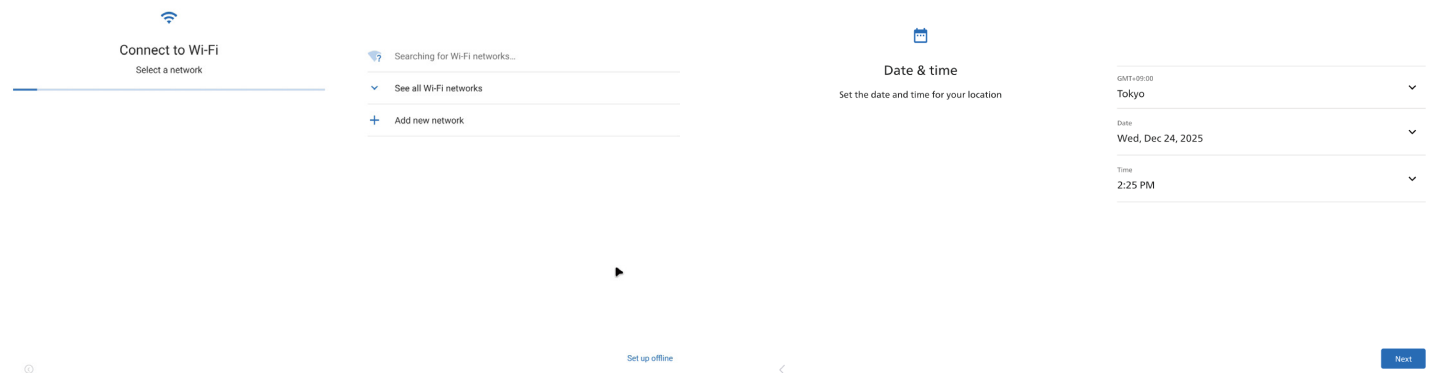


- **Google Account:** Sign in with a Google Account, or tap "Skip" to continue without signing in.

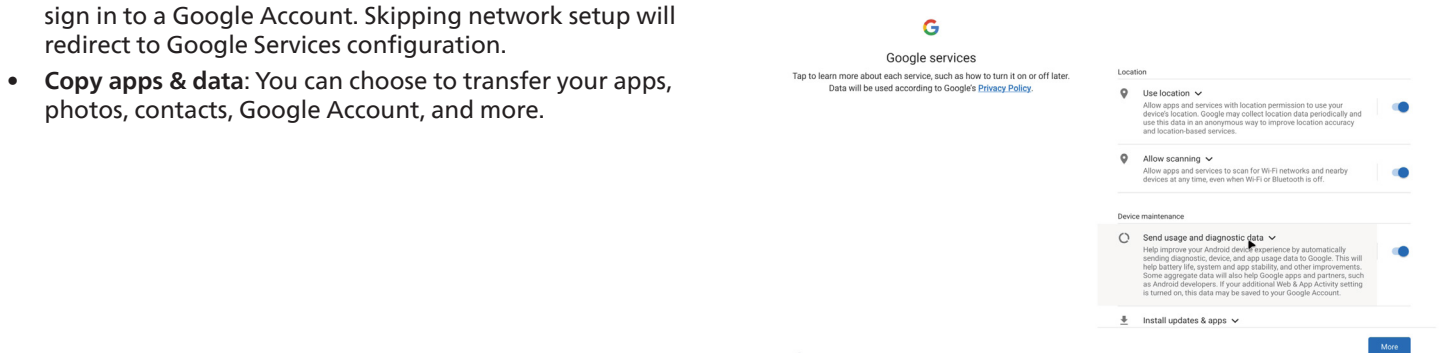


Note: After signing in, your account information will be automatically synced to all Google apps on this device.

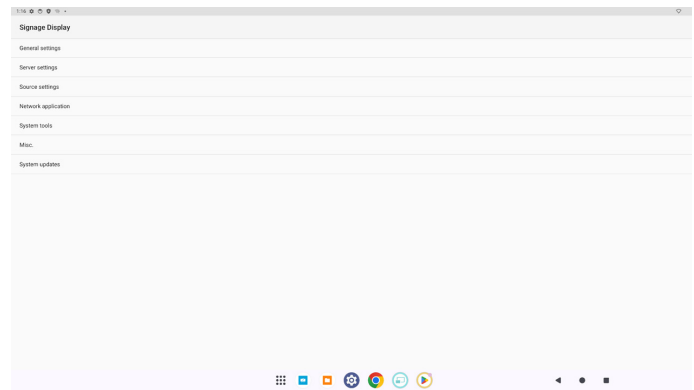
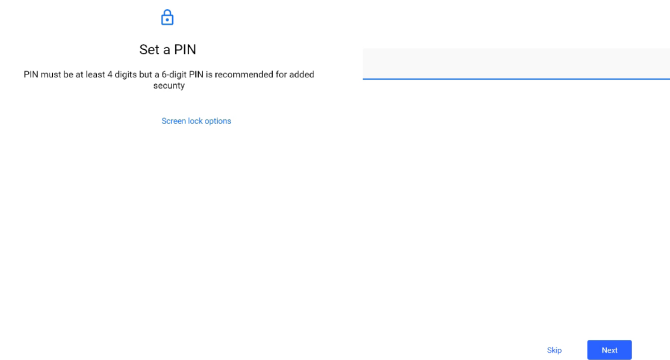
- **Date & Time:** Time zone and date/time can be set manually or automatically.



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

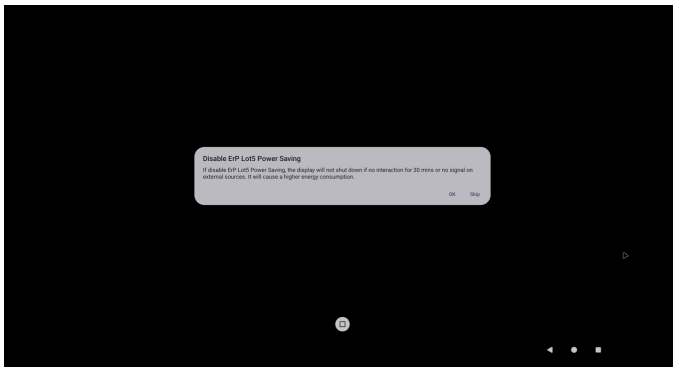


- **PIN code setting:** Users can set up a lock screen PIN or skip without setting one up.



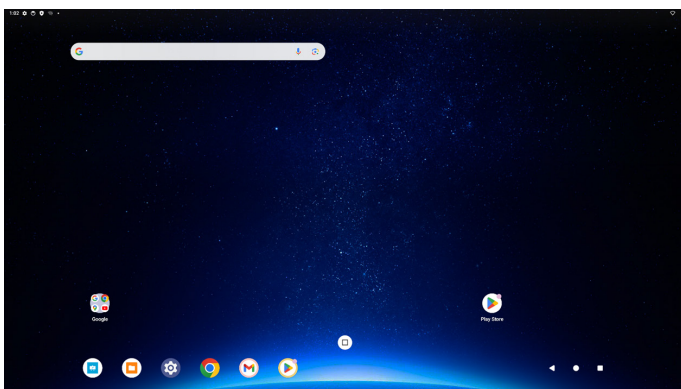
When opening an app, the Hotseat is centered at the bottom.

- **Disable ErP Lot5 Power Saving:**if you disable ErP Lot5 Power Saving, the display will not shut down if there is no interaction for 30 mins or no signal on external sources. Select “OK” to disable power saving and “Skip” to keep the default setting.



5.3. Launcher

Launcher:



The default apps placed in the bottom Hotseat are: Whiteboard, FileManager, Settings, Chrome, with the last two apps randomly assigned by the system.

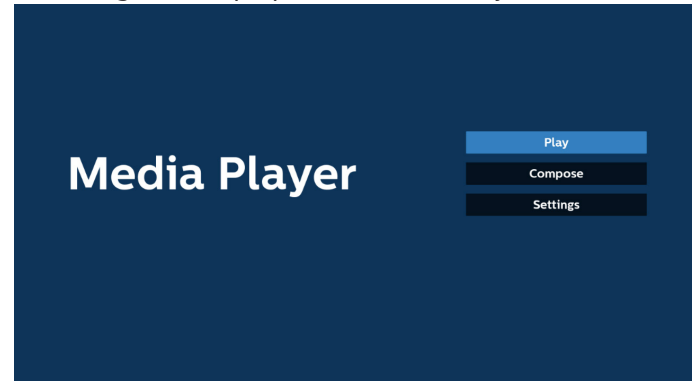
5.4. Media Player

5.4.1. OSD menu interaction with media player:

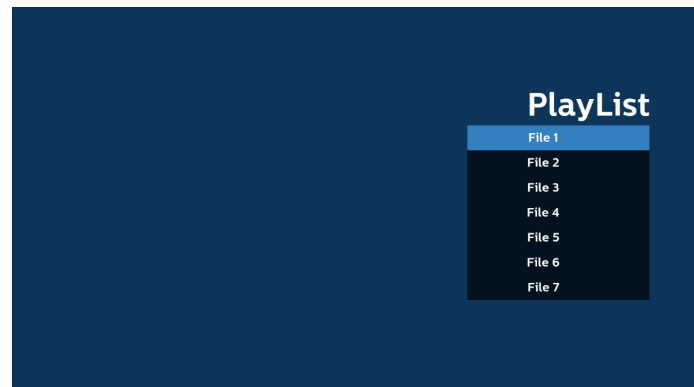
1. Boot on source:
 - Input:
 - If you select Media player as the source, the system will enter media player automatically after the boot process is completed.
 - Playlist:
 - Main page: go to the main page of media player.
 - Playlist 1 - Playlist 7: go to media player and playback File1 - File7 of playlist automatically
 - USB Autoplay: go to media player and play USB files 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 media player and playback File1 - File7 of playlist automatically.
 - USB AutoPlay: media player autoplay media file of USB storage.
 - Days of the week:
 - Set Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
 - Every week:
 - Set a weekly schedule.
 - Save:
 - Save the schedule.

5.4.2. Media Player introduction:

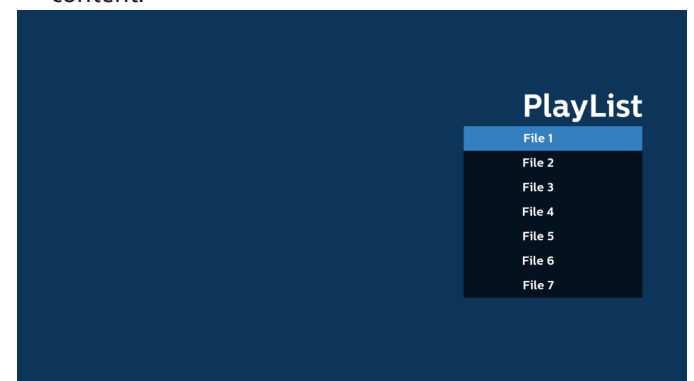
1. The main page of Media Player, this page consists of three options: "Play", "Compose" and "Settings".
 Play: select a playlist to play.
 Compose: edit a playlist.
 Settings: set the properties of Media Player.



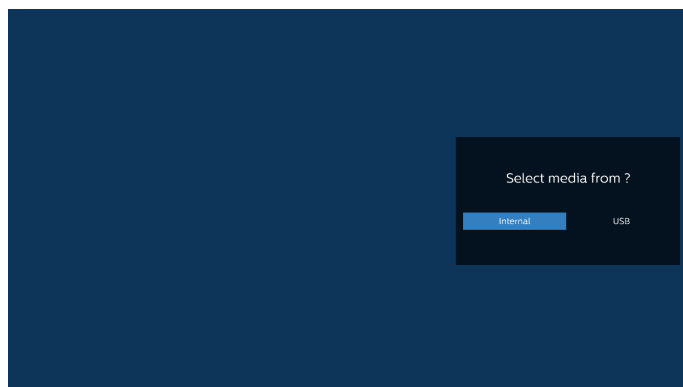
2. Select "Play" on the main page, first you should choose one playlist to play between FILE 1 and FILE 7. The pencil icon means that the playlist contains the content.



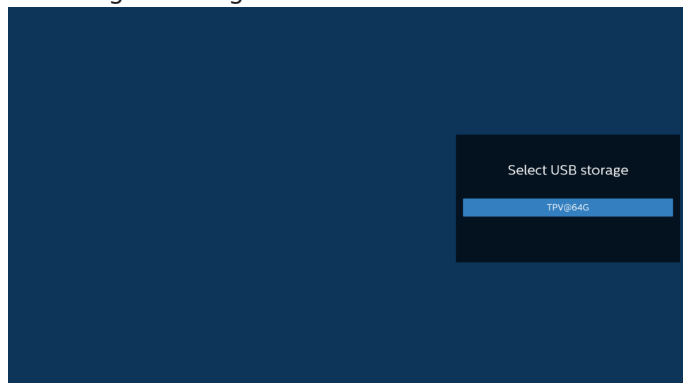
3. Select "Compose" on the main page, first you should select one playlist to edit between FILE 1 and FILE 7. The pencil icon means that the playlist contains the content.



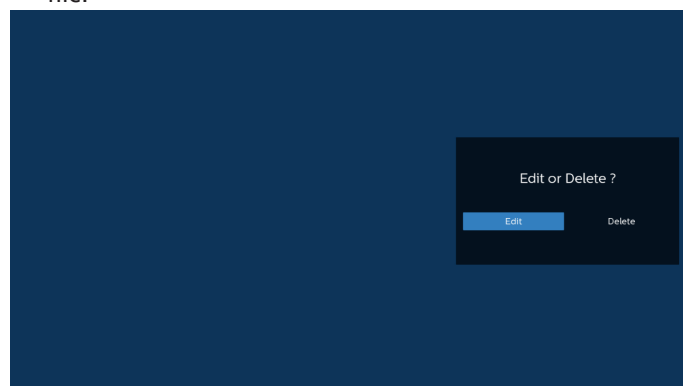
4. If an empty playlist is selected, the App will guide you through selecting the media source.
 All media files should be stored in /philips/ of root directory.
 For example,
 videos: {root dir of storage}/philips/video/
 photos: {root dir of storage}/philips/photo/
 music : {root dir of storage}/philips/music/



5. If you select "USB" storage, the App will guide you through selecting the USB device.



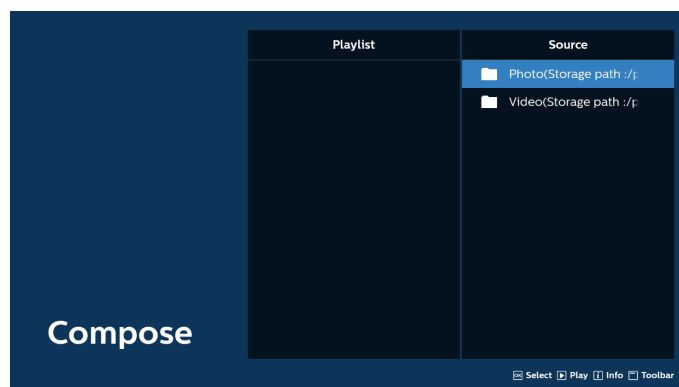
6. To edit or delete a non-empty playlist, select the desired playlist that has a pencil icon on right side of the selected file.



7. Once you start to edit a playlist, you will see below screen.
- Source - files in storage.
 - Playlist – files in playlist.
 - Option – launch the side menu bar.
 - Play key – play the media file.
 - Info key – show the media information.
 - Touch file - select/deselect a file.

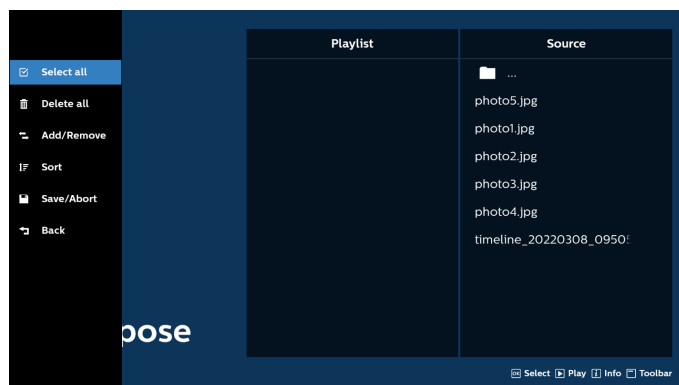
Note:

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

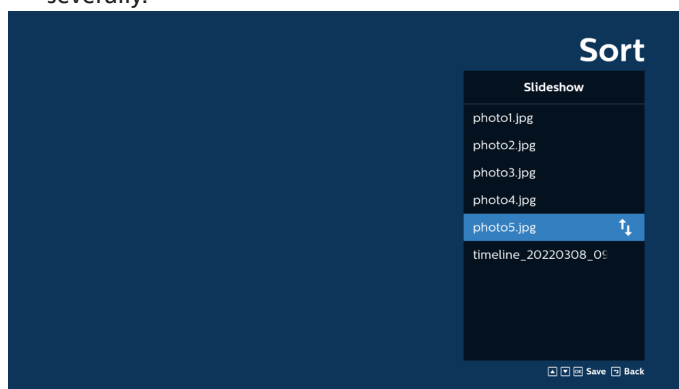


- 7-1 From the side menu bar, the following functions are available:

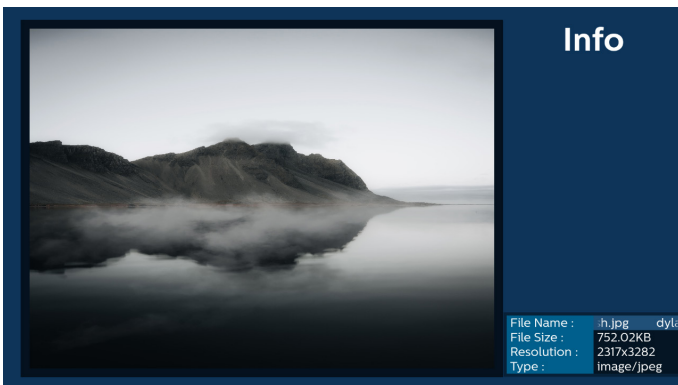
- select all: select all storage files.
- delete all: delete all playlist files.
- add/remove: update playlist from source.
- sort: sort playlist.
- save/abort: save or abort playlist.
- back: return to the previous menu.



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



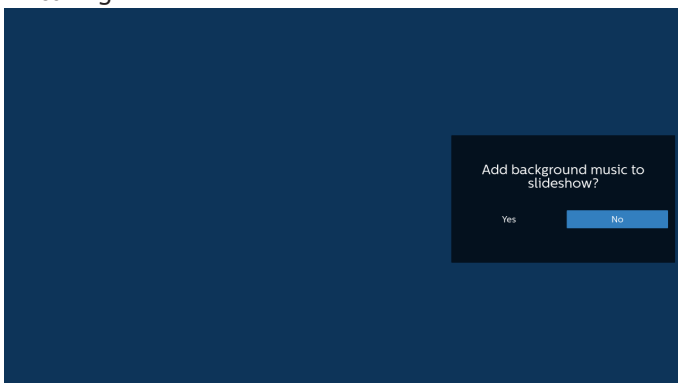
9. After selecting the desired file, press "Info" key to obtain the detailed information.



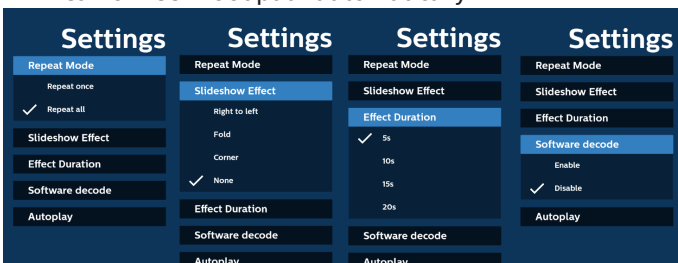
10. After selecting the desired file, press "Play" key to play the media file immediately.



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.



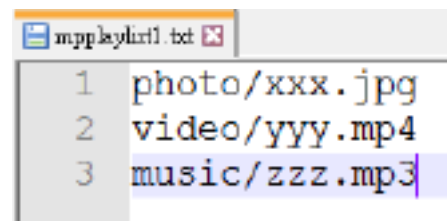
13. Media Player import text file

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

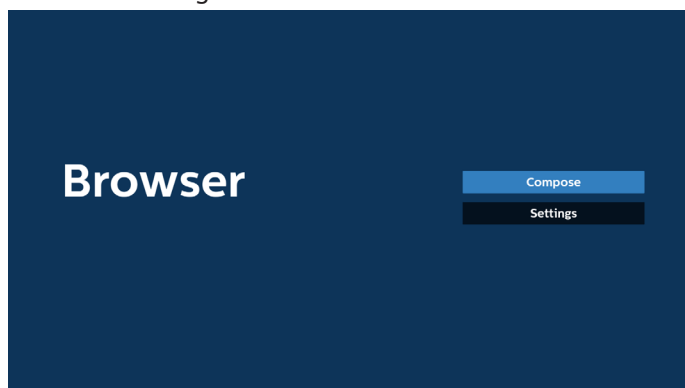
Step 4. Start media player app, it will automatically import media player text file.

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

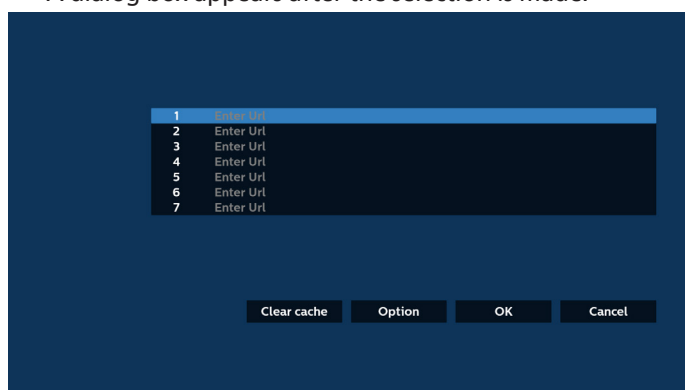
5.5. Browser

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

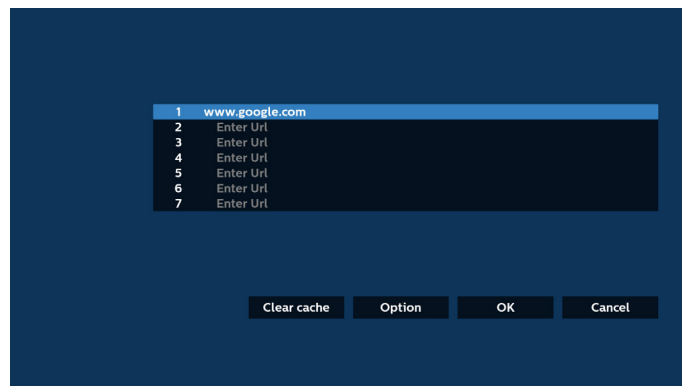
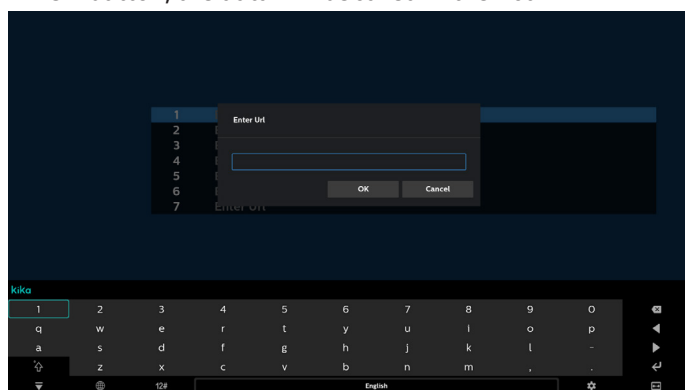
1. Main page of "Browser" App which allows you to make related settings.



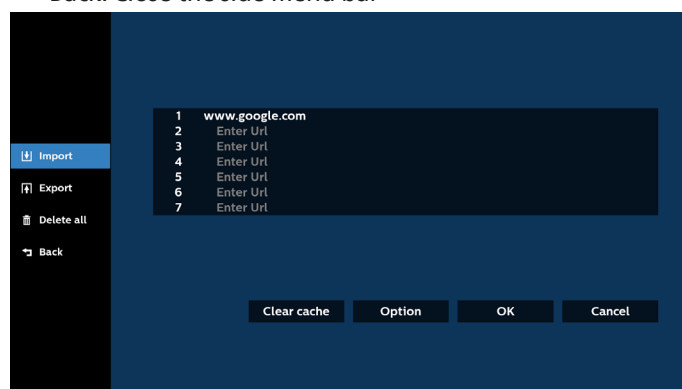
2. Press "Compose" then enter the next page.
Users can choose between 1~7.
A dialog box appears after the selection is made.



3. Use the on-screen keyboard to enter URL and press the OK button, the data will be saved in the List.

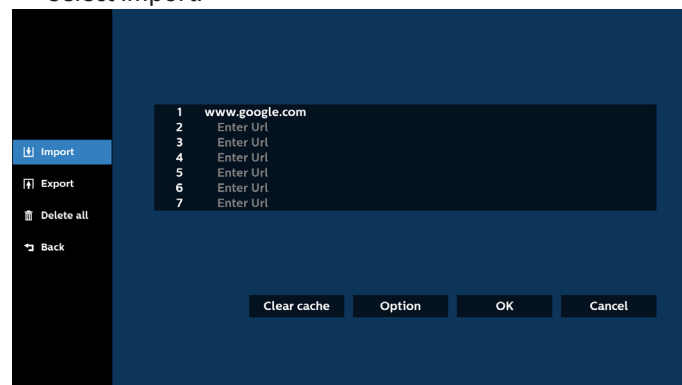


4. Press "Option" and a list will appear on the left side.
Import: Import the file of URL list
Export: Export the file of URL list
Delete all: Delete all URL records from the main screen
Back: Close the side menu bar

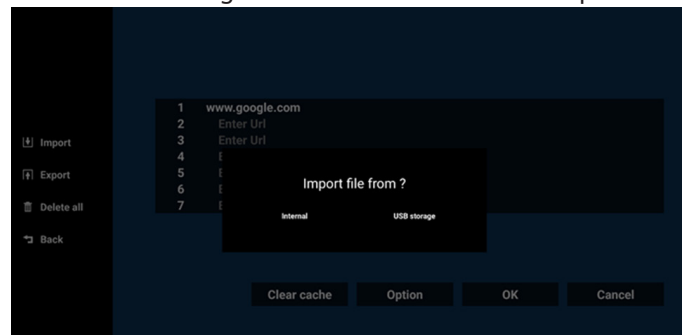


4.1 Import

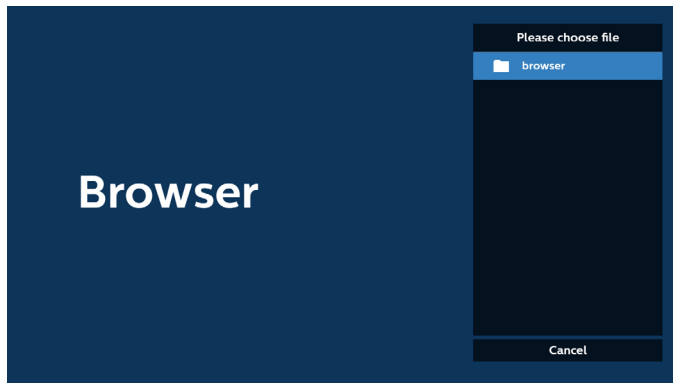
- Select import.



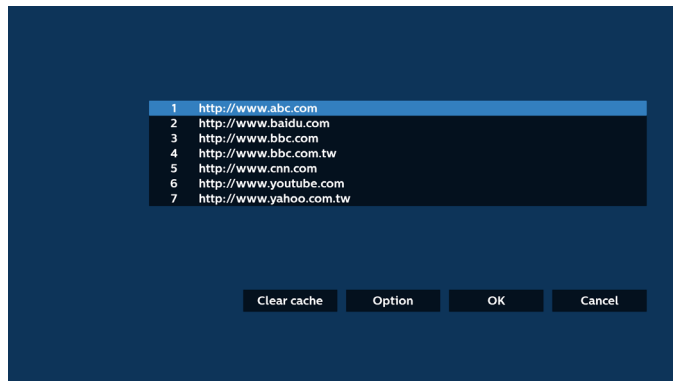
- Select the storage from which the file will be imported.



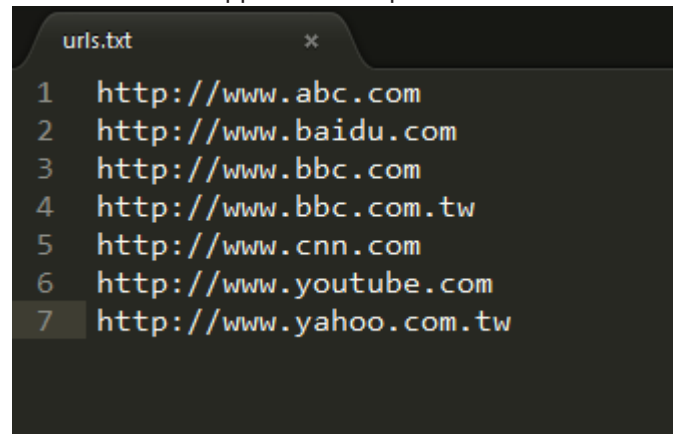
- Select a browser file.



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

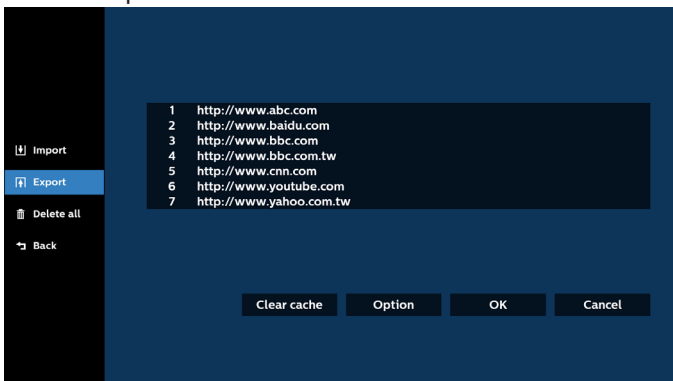


- The file format supported for import is ".txt".

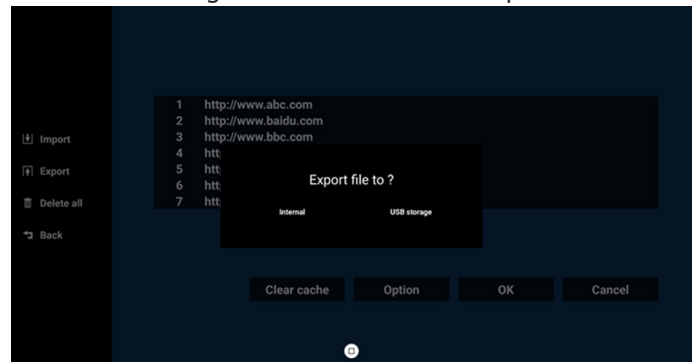


4.2 Export:

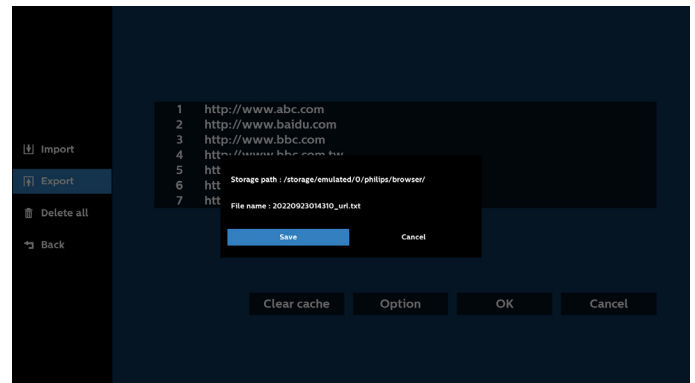
- Select export.



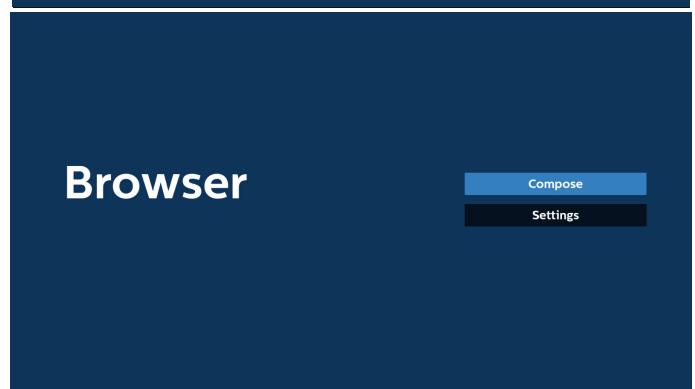
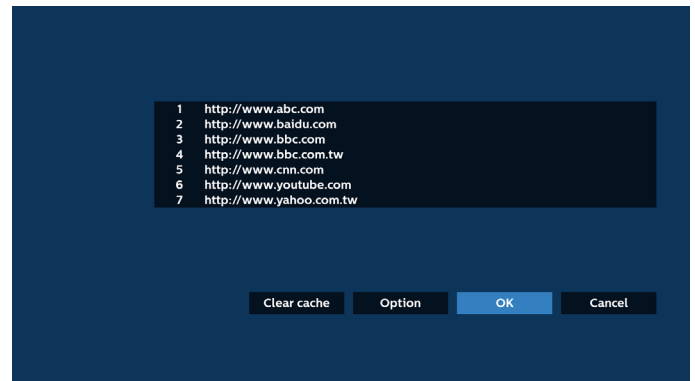
- Select the storage where the file will be exported to.



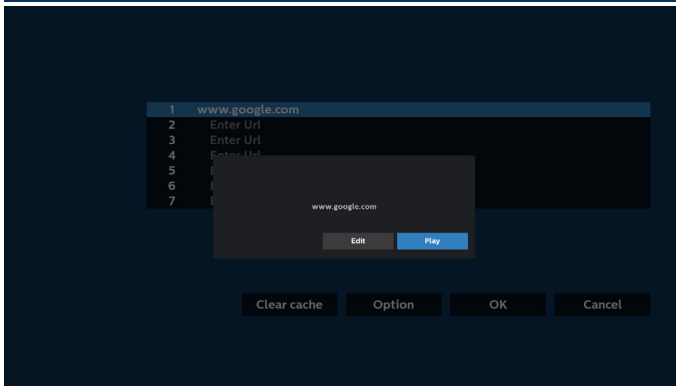
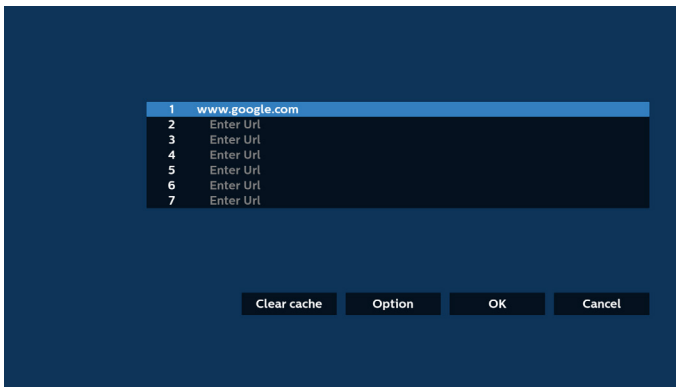
- A dialog box displays the path of the file to be saved as well as the file name. Press the "Save" button to save the URL.



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.

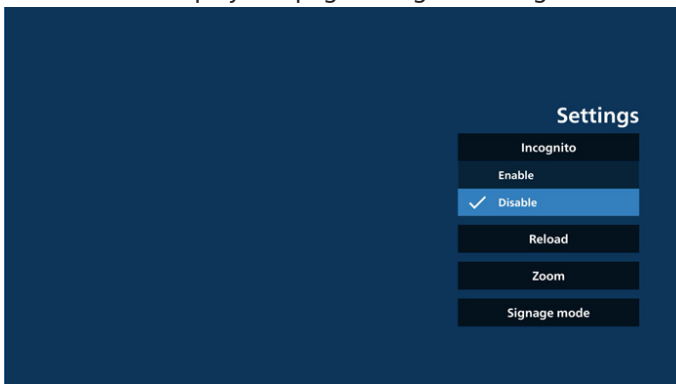


7. Press "Settings" then enter the next page.



7.1 Incognito

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



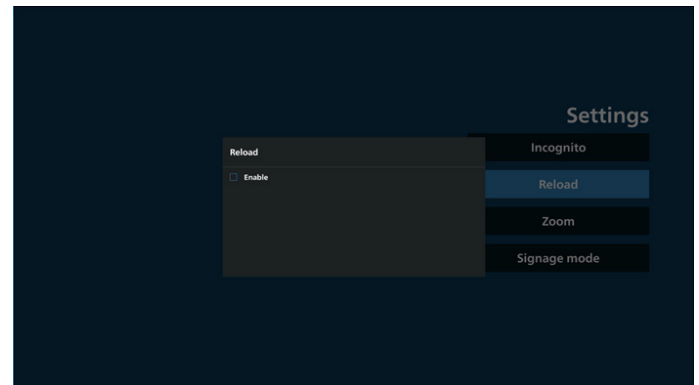
7.2 Reload

- Allow users to set the webpage reload time.
- If the enable checkbox is unchecked, the default reload time is 60 seconds.

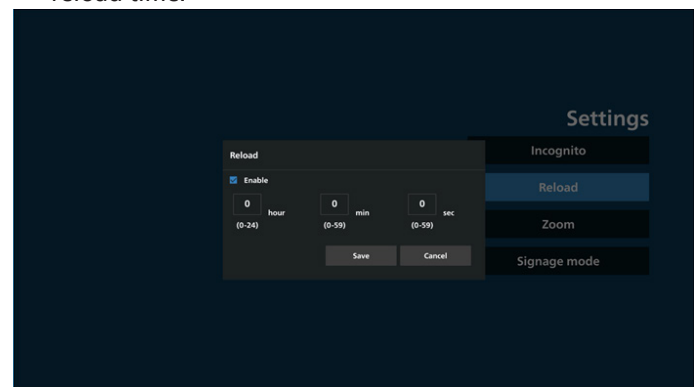
Note:

In this case, the webpage only reloads when the network state changes.

If the network state is always connected, the webpage will not reload after 60 seconds.



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

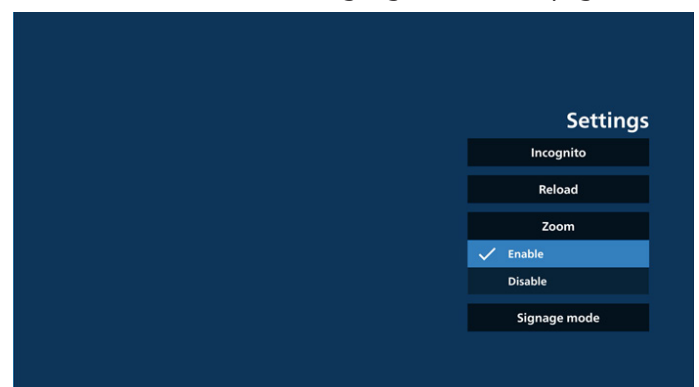


7.3 Zoom

Allow user 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:

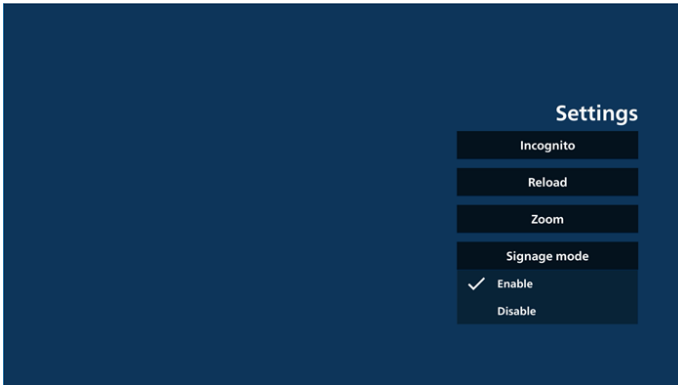
Zoom in and out on www.google.com home page.



7.4 Signage mode

Enable going back to the Browser Compose page when the user returns 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 user 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

Set OSD menu > Configuration > Boot on source > set BROWSER Play List to 0.

Then PD will show Browser after rebooting.

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.

Then PD will show the web page with URL in Browser app at time1 and finish at time2.

How to edit the URL list via SFTP

Step 1. Create a text file for browser.

- File name: bookmarklist.txt.
- Content:



Step 2. Copy bookmarklist.txt to "philips" folder of your internal storage. You may use SFTP 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.

9. Offline browsing

9-1. Offline browsing

When an address is set with URL1 and OSD schedule is used to open URL1 web page, browser app will automatically save Url1 screenshot to local storage. The screenshot frequency is every 5 seconds and it only performs 12 times.

If the network is disconnected while the OSD schedule is opening the browser app, the browser app will automatically open URL 1 screenshot from local storage.

Note:

- a. Browser app can only save URL 1 screenshot, URL 2 to URL 7 cannot be saved.
- b. Local storage : /storage/emulated/0/Download/Browser_cache.png
- c. Pressing "Clear cache" button can clear Url 1 address home page data from local storage.

5.6. Custom App

User can set up the application for Customer Source.

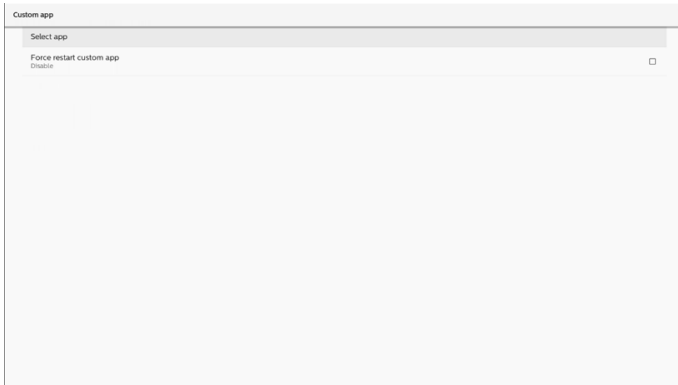
RCU: Source -> Custom

If a custom APK is set, the PD will open the customer App when switching the source to Customer mode.

If the custom APK is not set, the PD will show Launcher when switching the source to Customer mode.

5.6.1. Configure custom source

Access Signage Display -> Source settings -> Signage apps -> Custom App

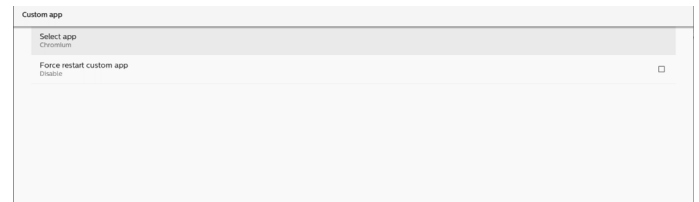


After setup, the screen shows App's name.



5.6.3. Force restart custom app

Force restart the selected app when it is down or not responding.



5.6.2. Select app

Save

Select the App, click the "Save" button to perform save function.

Forget

Press "Forget" button to remove previously stored information.

Cancel

Press "Cancel" button to quit without saving changes made.

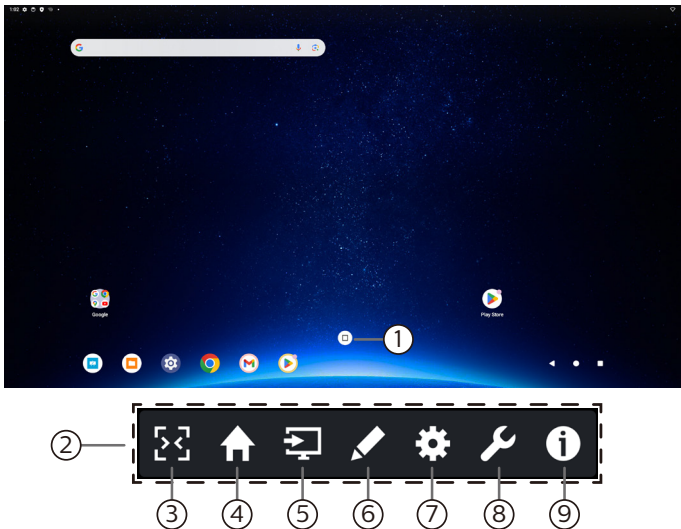
If no custom APK is installed, the list will be blank, and the "Save" and "Forget" buttons will be grayed out.

If custom APK is installed, user can select it from the list.

- Case 1: Not setting Custom App.
Custom App will display and the focus is on the first item automatically.



5.7. Floating menu



① The floating menu is in a collapsed state.

Clicking it will expand the list of functions. If you long press it until the icon changes color, hold it and you can then move it to any position on the screen.

② Floating menu in expanded state

Set the opening or closing of each function item of the floating menu: Signage Display -> General settings -> Floating menu -> Customization

③ Click to close the floating menu.

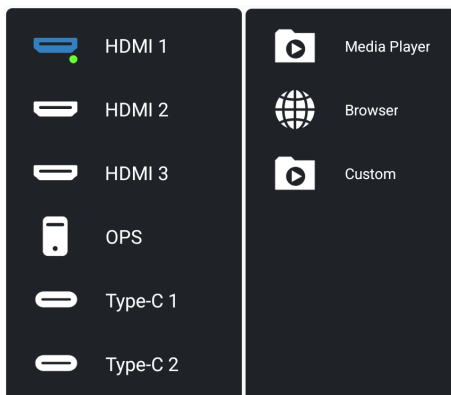
In the OSD Menu->Configuration->Information OSD, set the time to close the floating menu.

④ Home source

Click to access Home page.

⑤ Display Source Menu.

This is the External Source, and its display name and switch can be modified in Signage Display -> Source settings -> Source label/enable.



⑥ Execute the annotation APK.

⑦ Display the OSD menu.

⑧ Display widgets.

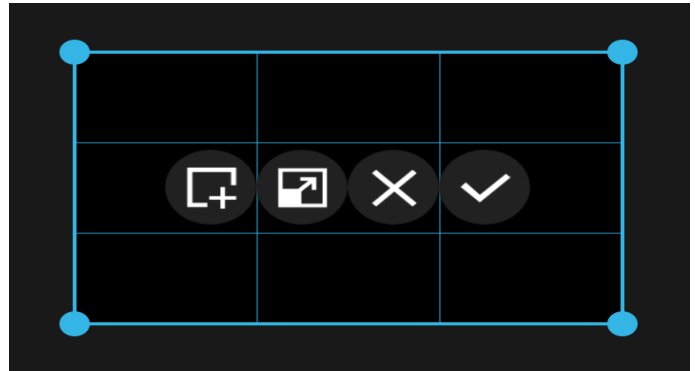


Freeze/Unfreeze. Clicking this button will freeze or unfreeze the signal screen.



Screenshot. Click to take a screenshot and enter the cropping mode.

Screenshot widget:



Click on the four corners of the selection box to resize it.

Long press and drag within the grid area to move the position of the entire selection box.



Click to leave the cropping mode and send the screenshot within the selected range to the Whiteboard APK.



Click to switch between fullscreen/non-fullscreen



Click to exit cropping mode.

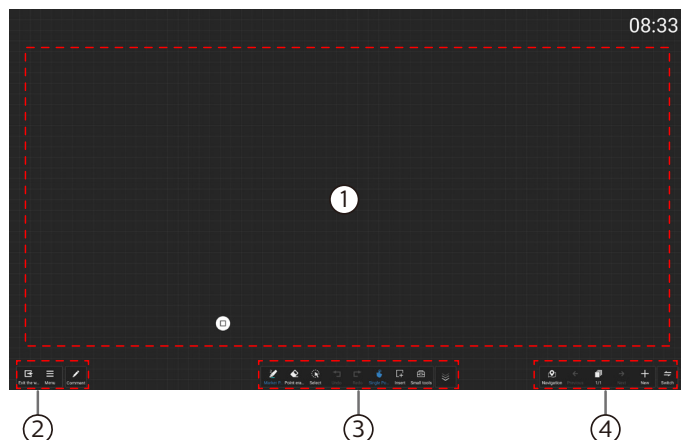


Click to save the screenshot within the selected range, it will be saved in the Internal storage/philips/screenshot folder then exit cropping mode.

⑨ Open Quick info. It will display the information of Time, Network and Monitor Information.

6. Whiteboard

6.1. Main page



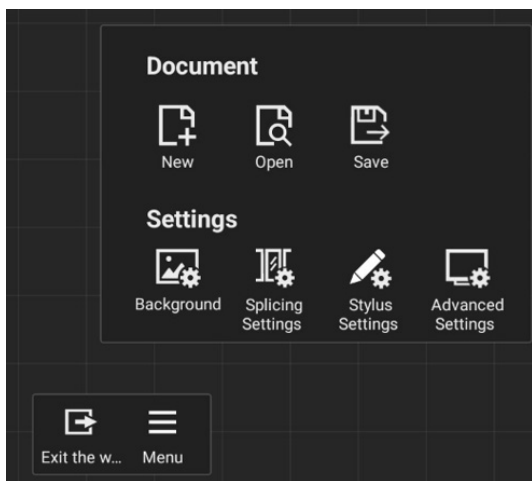
① Sketchpad area: Display the writing effect of the brush and the insertion effect of the picture.

② Whiteboard menu bar.

③ Whiteboard Toolbar.

④ Page management bar.

6.2. Whiteboard menu bar



Exit the whiteboard: Click to exit the whiteboard.

Menu: The options are {Document} and {Settings}.

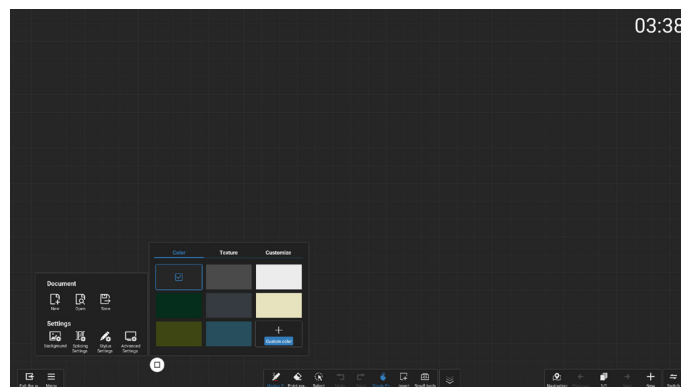
{Document}: Select to create new file, open file, save file.

{Setting}: Background, Splicing settings, Stylus Settings, Advanced Settings.

Annotation: This button is only displayed on whiteboards accessed through 'Import Whiteboard' from 'Annotation', and can return to the state before the annotation.

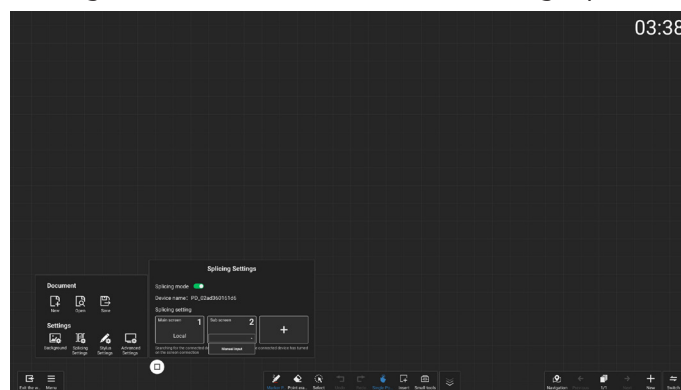
6.2.1. Background

Background: Select and set the background color, texture or customize the background for each page of the board.



6.2.2. Splicing settings

Splicing setting: Though protocol extensions to integrate the functions of multiple IWB devices, we have created an interactive meeting scenario featuring multi-screen splicing, offering a novel multi-screen whiteboard writing experience.



a) Enable whiteboard screen connection

Click the "+" icon in the "Splicing Settings" to automatically detect other IWB devices running in the current IP domain, obtain the system PD name, and select up to 2 devices to add as secondary screens for splicing and display proportionally on the main screen. When adding, a notification will be sent to the secondary screen, which can decide whether to join or not; You can also manually enter the IP address to add the device.

b) Delete secondary screen

Long press and select the secondary screen in the 'Splicing Settings' and drag it to the delete button area to delete the secondary screen. The main screen cannot be deleted.

c) Adjust the display order of the screen

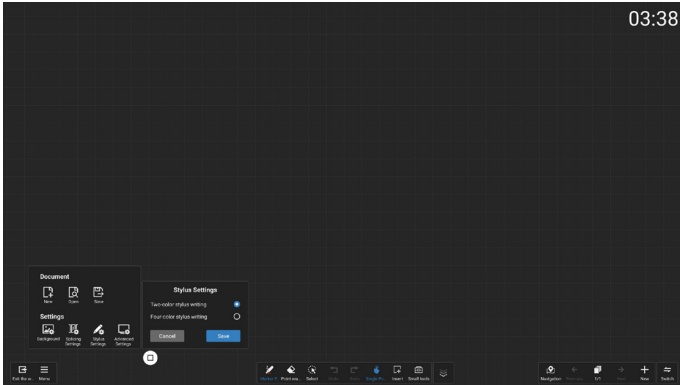
Long press the screen diagram and drag left and right to change the splicing display order, such as adjusting from 123 to 132.

d) Disconnect the whiteboard screen connection

Turning off the splicing mode, deleting the secondary screen, or exiting the whiteboard can all be disconnected; After disconnecting the secondary screen, the content will automatically return to the main screen; When multiple secondary screens are connected, exiting one of them does not affect the other.

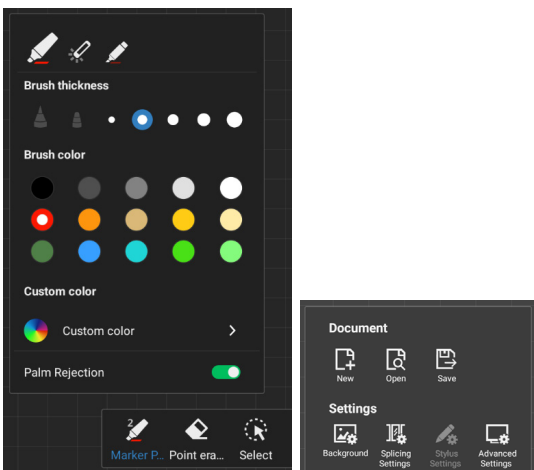
6.2.3. Stylus Settings

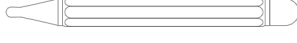
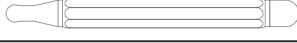
Stylus Settings: Supports both Two-color stylus writing and Four-color stylus writing.



Notes:

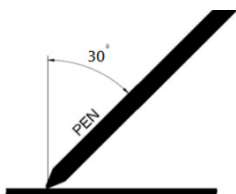
1. Two-color stylus writing setup is for standard stylus, while Four-color stylus writing setup is for optional stylus.
2. Please use the standard stylus CRD 26 or optional stylus CRD 23/CRD 24 for your 4152E touch display. Using any other pens will cause misrecognition.
3. It is not recommended to use a 4-color stylus in a 2-color setting; similarly, it is not advised to use a 2-color stylus in a 4-color setting.
4. This item will be grayed out when palm rejection is on.



Standard stylus	*Optional stylus
	
	
Shipment with the display	

The recommended stylus writing angle:

Function item	Functional description
Basic writing	Writing on IR IWB
Tilt	$\leq 30^\circ$

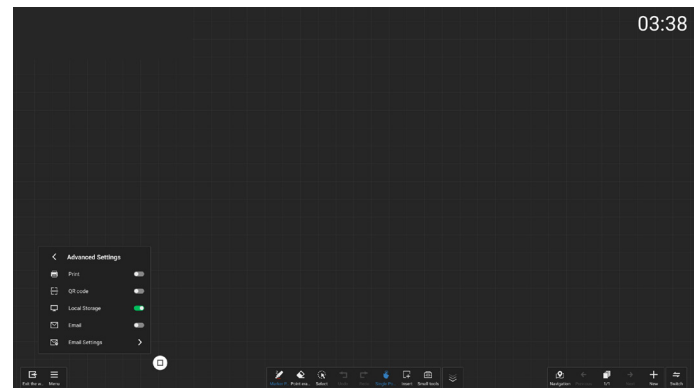


6.2.4. Advanced Settings

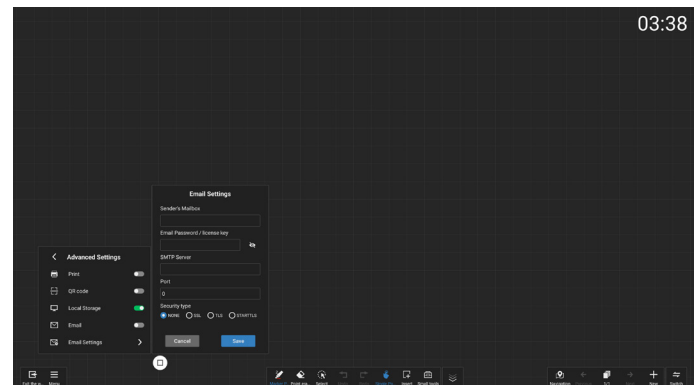
Advanced Setting: Click on 'Advanced Settings' and enter the system password to accessed the Advanced Settings.

Enable or disable the function of Print, QR Code, Local Settings, Email. Send file by Email, Scan QR Code to take away the whiteboard file and print file.

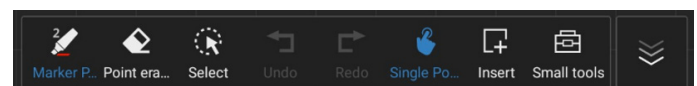
Note: In order to use the printing feature, it may be necessary to install specific printer app provided by your printer's manufacturer.



Email Settings: Input the sender's Email address, Email password/authorization code, SMTP server address, port number, and encryption method. Once these settings are configured, you will be able to send custom Emails.



6.3. Whiteboard Toolbar



Marker Pen: Click to select different writing types and pen thickness/colors in free writing on the whiteboard.

Point eraser: Erase the brush contents in the current sketchpad, and it supports point erasing, circle erasing, and one-click screen clearing.

Select: Select an object to perform operations such as sending to front, sending to bottom, copying, deleting scaling, and moving.

Undo: Undo a step, supporting up to 50 steps of undo history.

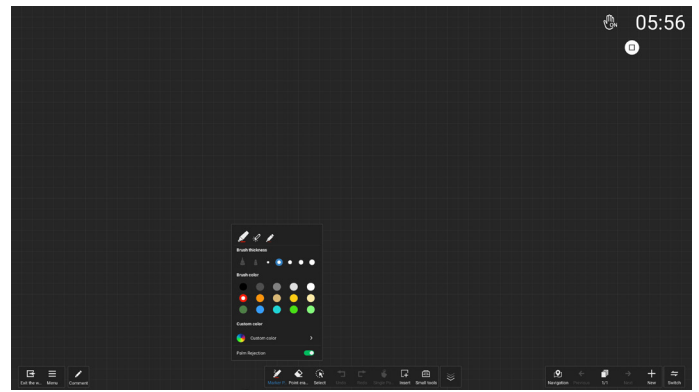
Redo: Redo a step, supporting up to 50 steps of redo.

 **Single Point/Multi-point:** When palm rejection is off, it allows switching between Single-Point and Multi-Point modes, with support for up to 10 points simultaneous writing; when palm rejection is on, it remains in a fixed Single-Point mode, and only supports writing with one stylus.

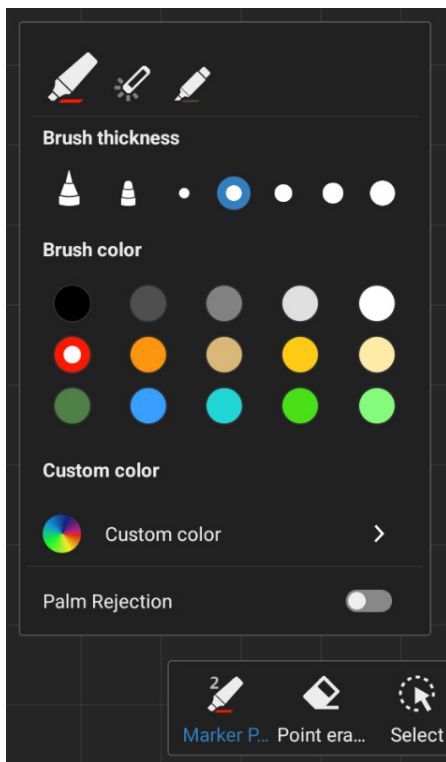
 **Insert:** Click the insert icon to bring up the File & Graphic panel, enabling you to insert various elements into the whiteboard, such as text, pictures, documents, shapes, mind maps, templates, and smart tables.

 **Small tools:** Click the toolbox icon to bring up Note, Vote, Timer, and Search gadgets for use within the current whiteboard page.

 **Hide/Show Toolbar:** Click to hide/show the whiteboard toolbar.



6.3.1. Brush



Set the stylus type, thickness and color. Support Marker Pen, Laser Pen and Highlighter pen as the writing pen.

Palm Rejection: Switch to set the palm rejection on or off.

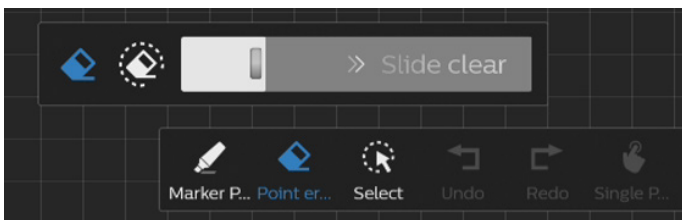
 When palm rejection is on, this icon will be displayed in the top right corner of the canvas, and the tip selection area will be grayed out.

Whiteboard App scenarios	1-Standard stylus	2-Standard stylus	1-Optional stylus	2-Optional stylus	3-Optional stylus	4-Optional stylus	Single-Finger Touch	Multi-Finger Touch	Palm/Back of hand Touch	
	(3 mm)	(9.5 mm)	(3 mm)	(5.6 mm)	(9.5 mm)	(14.5 mm)				
Palm Rejection Off	(When 2-color stylus enabled)							Move/Zoom canvas	Eraser	
	Default: red	Default: blue	Default: red	Default: red or blue	Default: blue	Default: blue	Default: blue			
	(When 4-color stylus enabled)									
	Default: red	Default: blue	Default: red	Default: green	Default: blue	Default: white				
Palm Rejection On	Default: red					(When 2-color stylus enabled)				No response
						Randomly between two scenarios: 1. Pop up the prompt “Finger writing is not supported in palm rejection mode”, no other response. 2. Default: red	Pop up the prompt “Finger writing is not supported in palm rejection mode”, no other response.	Move/Zoom canvas		
						(When 4-color stylus enabled)				
						Default: red		Only one random finger can draw lines, default is red, no response from other fingers		

Notes:

- Excessive wear on the pen tip can affect the writing performance of the stylus (color misidentification). If there is a high incidence of errors, please check the condition of your pen tip and consider purchasing a new writing stylus.
- 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).

6.3.2. Point eraser



Erase current annotation content by point erasing, circle erasing, and one-click screen clearing.

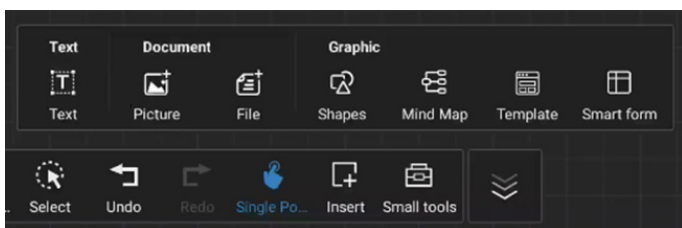
 **Point erasing:** Follow the contact to erase part of the content.

 **Circle erasing:** select an area to erase part of the content.

 **One-click screen clearing:** Clear all annotations.

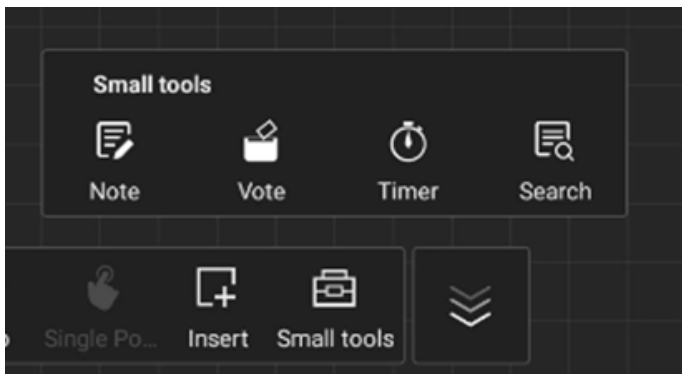
Note: The palm or the back of your hand can be used as an eraser.

6.3.3. Insert



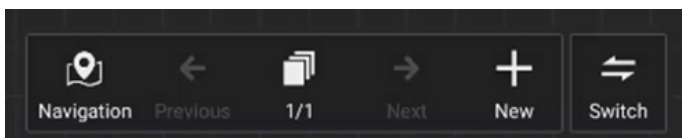
Click the insert icon to bring up the File & Graphic panel, enabling you to insert various elements into the whiteboard, such as text, pictures, documents, shapes, mind maps, templates, and smart tables.

6.3.4. Small Tools



Click the toolbox icon to bring up Note, Vote, Timer, and Search gadgets for use within the current whiteboard page.

6.4. Page management



Navigation: Displays a navigation preview map, showing all objects on the whiteboard.

Page preview: Navigate to the previous page. This icon is greyed out when on the first page.

Page Number: Displays the current page/total number of pages.

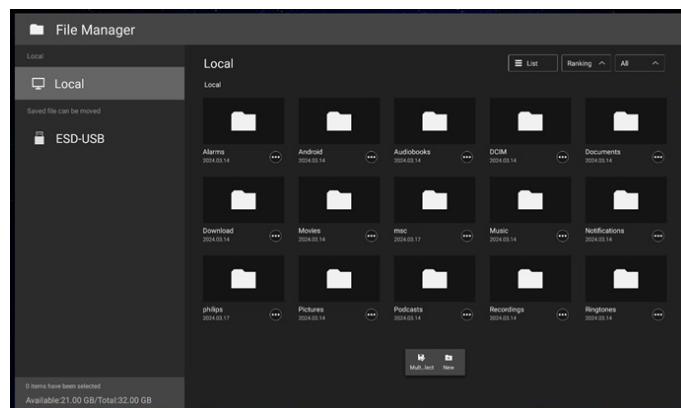
Next Page: Navigate to the next page. This icon is greyed out when on the last page.

New Page: Add a blank page to the last page.

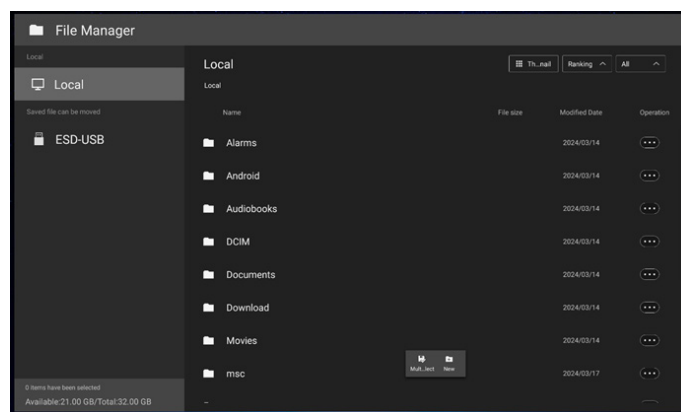
Switch pages: You can click the previous page / next page to switch pages, or select any page in the preview.

7. File manager

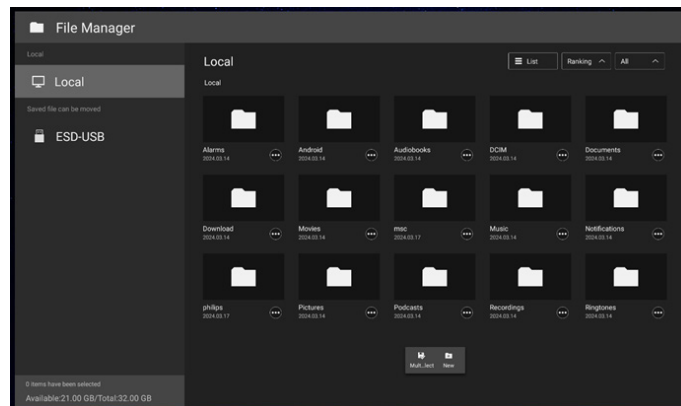
Select a file and rename, copy, paste, cut, or delete it.



Files are displayed in list mode.



Files are displayed in thumbnail mode.



Remote Control operations may have limitations, which is normal.

It is recommended to use touch operations instead.

8. Signage Display

Signage Display

All apps -> Signage Display, to setup most features of signage display. Descript in below sessions.



8.1. General Settings

Set up Signage Display name, User logo, Screenshot, Floating menu and Gestures.



8.1.1. Signage Display Name

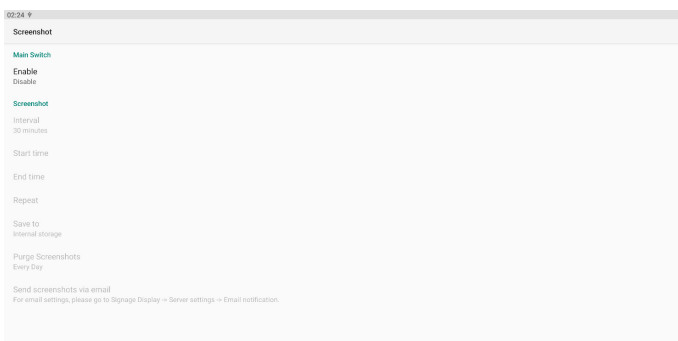
Set up PD name, default name Ethernet MAC address with prefix "PD_". For example, "PD_000b12223398". The max length of name is 36 chars in UTF8 format. Click to rename it.

Please enter signage display name

CANCEL OK

8.1.2. Screenshot

Setup system doing auto screenshot. Click "Enable" to enable screenshot features. The screenshot options is gray if user not enable screenshot.



User can set up screenshot interval and saving location folder after user enable it. "Save to" notify user that screenshot images will save in internal storage and user cannot change manually.

NOTE:

- Screenshot feature will auto delete screenshot photos when:
 - At start time (0 seconds) begin screenshot feature
 - At 40 seconds of minute starting screenshot

- If user select purge screenshot photos every week, the data of deleting photos will be change to the day of the date user apply any setting of screenshot feature. For example, if user set purge day is Monday of every week at first, but change other settings in screenshot feature in Friday, the purge day will be changed to Friday (day of week of system current time).

Sleep (system suspend) and screenshot feature:

Screenshot feature will also suspend when system is sleep (suspend). The mail out screenshot photo feature is also suspended. Screenshot feature will be restart when system wakeup.

Interval

Set up screenshot interval, user can select 30 or 60 minutes interval between each screenshot.

Interval

☒ 30 minutes

☐ 60 minutes

CANCEL

Start Time

Set up screenshot start time of a day.

- User must click "SAVE" before leaving dialog, otherwise the time will not be saved.
- The start time must lower than end time. A toast message will notify user when interval is wrong.

Start time

01

26

02

:

27

03

28

SAVE CANCEL

End Time

Set up screenshot end time of a day.

- User must click "SAVE" before leaving dialog, otherwise the time will not be saved.
- The start time must lower than end time. A toast message will notify user when interval is wrong.

End time

01

26

02

:

27

03

28

SAVE CANCEL

Repeat

Set up auto screenshot day of week interval, user can select when screenshot will work.

Repeat

☐ Sunday

☐ Monday

☐ Tuesday

☐ Wednesday

☐ Thursday

☐ Friday

☐ Saturday

CANCEL OK

Save to

System saves screenshot images into internal storage. System will create philips/screenshot/ folder in internal storage and saving images under this folder.

Purge Screenshots

Set up the interval of purging (deleting) screenshot images. User can set delete image in every day or every week.

Purge Screenshots

☒ Every Day

☐ Every Week

CANCEL

Send screenshots via email

Enable device send out screenshot image by E-mail for every screenshot. User must set up mail information first in "Signage Display -> Server Settings -> Email notification" (reference Email Notification section).

Send screenshots via email

For email settings, please go to Signage Display -> Server settings -> Email notification.

8.1.3. Floating menu

Custom the functions of floating menu during touch gesture. These options only available when platform has supported touch device.

Floating menu

Settings

Customization

Settings

Always on

Always off

Auto hide

CLOSE

Always on: If floating menu is Always on, floating menu will always be shown on the screen. In contrast, If floating menu is Always off, floating menu will be hidden on the screen.

Always off: If floating menu is Always off, you can still use RCU to bring the OSD menu.

Auto hide: The countdown is based on the number of seconds set by OSD Menu-> Configuration-> Information OSD. Floating menu will be automatically hidden after the countdown. Swipe up to show floating menu again.

Customization

Annotation

OSD Menu

Tools

Quick Info

CLOSE

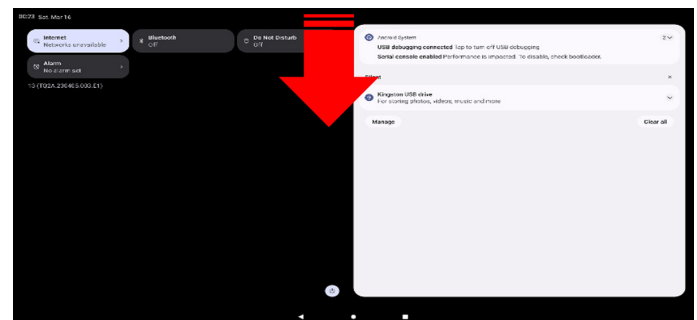
8.1.4. Gestures

Enable or disable the gesture of swipe down, swipe up and long press.

Gestures

Status bar

CLOSE



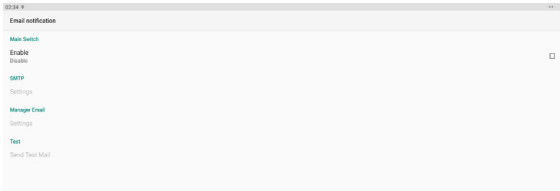
Status Bar: swipe down from the top.

8.2. Server Settings



8.2.1. Email Notification

Click checkbox to enable/disable E-mail notification feature. User can set up SMTP and manager E-mail after enable E-mail notification feature.



SMTP

Setup sender E-mail address and SMTP server information. There are two types of SMTP server for user set up: "Gmail" and "Other". By using "Other" option, user can manually setup SMTP server, security type and server port.

Note:

Password length limit into range 6~20 chars in UTF8 format. User cannot set port 5000 (SICP default port) and 2121 (SFTP server default port).

1. SICP network port setting in "Signage Display -> Network Application -> SICP network port".
2. SFTP network port settings in "Signage Display -> Server settings -> SFTP -> Port".

Gmail: (SMTP server, Security type and Port are grayed)

Other:

Manager Email

Setup manager (receiver) E-mail address. Device will send E-mail to this account.

Test

Click "Send Test Mail" will send out a test mail to check if settings are correct.

8.2.2. SFTP

User can setup account, password and port number.

1. Account: The username for login SFTP server. The length of name in range 4~20 characters, and only allow [a-z][A-Z][0-9].
2. Password: The password for login SFTP server. Password length in range 6~20 characters, and only allow [a-z][A-Z][0-9]. The password will show "*" only after set up.
3. Storage path: The SFTP server will access internal storage only. Cannot be changed by user.
4. Port: The port number for SFTP server. Available port number range from 1025 to 65535, default is 2121.

The following port number cannot be used:
8000 / 9988 / 15220 / 28123 / 28124 and SICIP network
port (default 5000).

Click the checkbox to enable/disable SFTP server feature.
Finally, manually reboot system to apply SFTP settings.

8.3. Source Settings

User can configure source APK’s detail options.



8.3.1. Signage apps



Media Player

Open Media Player APK’s edit play list activity and edit effect
stings activity.



Browser

Open Browser APK’s bookmark editor activity.



Custom app

User set up customer source APK. The selected APK will be
launch when switch into customer input source. If user does
not set up customer source APK, system will show black
screen when switch into customer input source.



If user set up APK for custom app source, it will show APK
name. If not, means that user does not set up custom app.

Select APP

Select specific APP for custom APP source.



Note:

Most system pre-installed APKs will not show in list. Only list
the APKs that user manually installed and removable APKs.

Buttons:

1. FORGET

Clear custom source application. Gray if user does not set
customer source application.

2. CANCEL

Do nothing and close dialog.

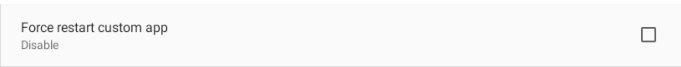
3. SAVE

Click SAVE to choose selected APK as custom source
application. Gray if there is no available application can be
selected.

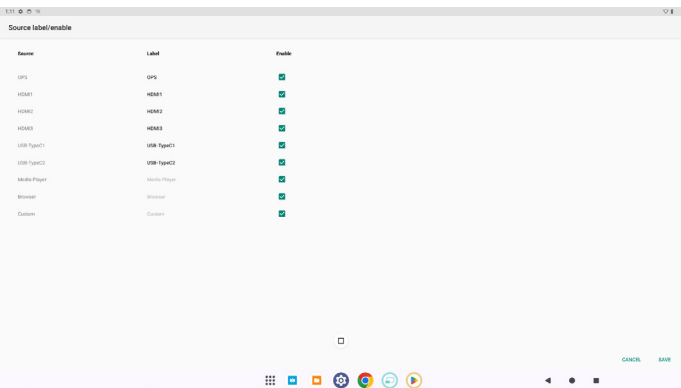
Force Restart Custom APP

System can monitor custom APP exist or crash when enable
“force restart custom APP”. If custom APP leaved, and boot on
source is set to “Custom app”, system will try to lunch custom
APP again.

Default is disabled.



Source label/enable



8.4. Network Application



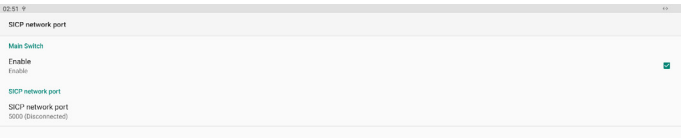
8.4.1. SICIP Network Port

Set up SICIP default port and enable/disable network SICIP.
Default SICIP is enabled and using port 5000.

Note:

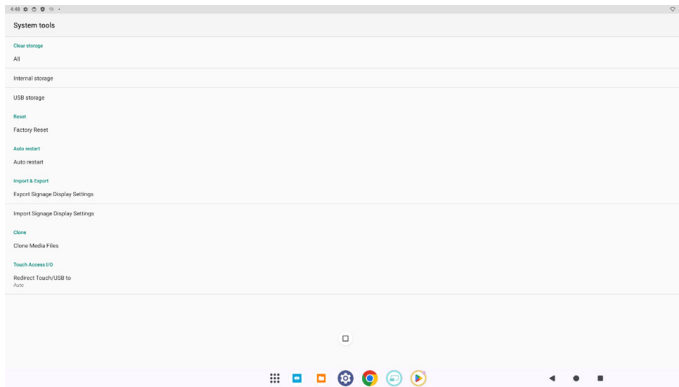
Port number range from 1025 ~ 65535.

Following port already been used, cannot assign to SICIP
network port: 8000, 9988, 15220, 28123, 28124 and SFTP port
(default 2121).

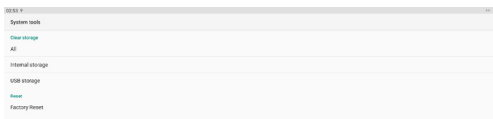


8.5. System Tools

There are several major features in signage display system tools:



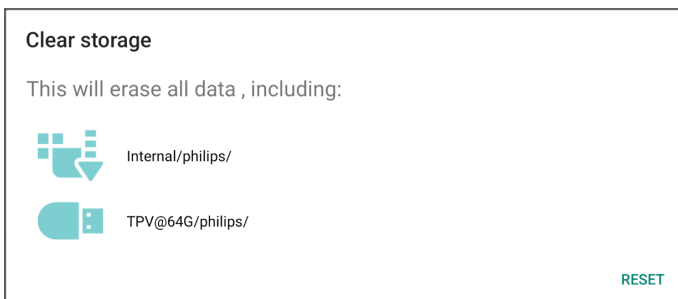
8.5.1. Clear Storage



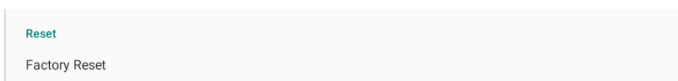
Use to clear all data under {storage}/philips/ folder in internal and external storage

- (1). All
Clear philips/ folder in internal storage and USB.
- (2). Internal Storage
Clear philips/ folder in internal storage only.
- (3). USB Storage
Clear philips/ folder in USB storage only.

A dialog will list folders that system going to clear. Press "RESET" to clear all data under listed folder. Or press back key to leave and do nothing.



8.5.2. Reset



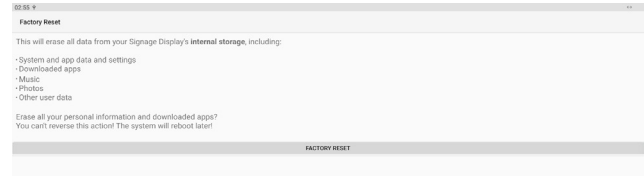
Factory Reset

Doing factory reset to clear all user data and settings. System will auto reboot and jump to OOB after finished.

Important Note:

1. All data in system will ERASE and CANNOT REVERT; including device settings, installed APPs, APPs' data, download files, music, photos and all data under /data. However, data in USB storage will not be clear, only clear the data in internal storage.

2. Must make sure AC adapter and power always exist during factory reset. Only can power off after user seeing OOB on screen again.



Doing factory reset by click "FACTORY RESET", system pop up a dialog and ask again. Please make sure you understand what you are doing, then press "OK" to perform reset action. Note that this action cannot reverse and erase all data in internal storage.

Reset?

Erase all your personal information and downloaded apps?
You can't reverse this action! The system will reboot later!

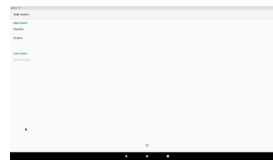
CANCEL OK

8.5.3. Auto Restart

User can set device auto restart every day in specific time.

Auto restart
Auto restart

Set enable or disable in main switch to control auto restart feature.



User can set restart time in time picker.

Restart time

01 57
02 : 58
03 59

SAVE CANCEL

After "SAVE", system restart time will show in below. System will do restart in specific time.

Auto restart

Restart time
10:00

8.5.4. Export & Import

Import & Export

Export Signage Display Settings

Import Signage Display Settings

Use export/import signage display setting for user easy copy database settings and 3rd part APK to other device. Please note that:

Export data to BDL4152E-clone.zip file under {storage}/philips/clone folder.

“Signage Display Name” will not be imported/exported.

Export Signage Display Settings

System exports database data and third party APKs into {storage}/philips/clone/BDL4152E-clone.zip file in selected storage (internal storage and USB storage).

Note:

If selected storage (internal storage and USB external storage) does not have philips/ folder, system will create it.

List all available storage (internal storage and USB storage) for user choose one of them.

Select storage

Internal/philips/

TPV@64G/philips/

CANCEL

OK

Import Signage Display Settings

Import database data from philips/clone/BDL4152E-clone.zip file of selected storage (internal Storage and USB storage). System imports following data in ZIP file:

1. Import Database in BDL4152E-clone.zip
2. Import 3rd party APK in BDL4152E-clone.zip

List all available storage (internal storage and USB).

Select storage

Internal/philips/

TPV@64G/philips/

CANCEL

OK

System pop up notification dialog before import settings and APKs. Click “OK” to start import data.

Import Signage Display Settings

Are you sure you want to import the settings and apps?
After importing successfully, the system will load the settings, install all apps and reboot automatically.

CANCEL

OK

8.5.5. Clone

Clone

Clone Media Files

Clone Media Files

System clone media files from selected source storage to target storage.

System clone files under following list of folder:

1. philips/photo

2. philips/music
3. philips/video
4. philips/pdf
5. philips/browser

Clone Media Files

Clone Source

Internal storage

USB storage

Path: TPV@64G/philips/

Target Location

Internal storage

USB storage

Path: Internal/philips/

CLONE

8.5.6. Touch Access I/O

Change touch and USB to front or rear USB ports or set to auto-detection mode.

Touch Access I/O

Redirect Touch/USB to

Auto

Redirect Touch/USB to

Front I/O

Rear I/O

Auto

CANCEL

OK

8.6. System updates

8.6.1. Local update

System will auto search “update.zip” in root folder of Internal storage and USB storage. If system found “update.zip”, pop-up a selectable list for user select which file user wants to use for update.

System updates

Local update

SELECT FILE

UPDATE

After select the file in list, system will reboot and do system update.

Please note that:

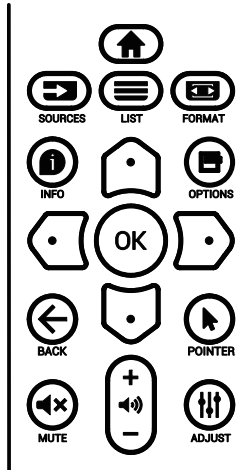
1. Keep system power alive during system update, do not remove power adapter.
2. Currently system only support full update.
3. The update file must name as “update.zip” only.

9. OSD Menu

An overview of the On-Screen Display (OSD) structure is shown below. You can use it as a reference for further adjustment of your display.

9.1. Navigating the OSD Menu

9.1.1. Navigating the OSD menu using the remote control



1. Press [**Home**] button on the remote control to display the OSD menu.
2. Press [**Left**] or [**Right**] button to select the item to adjust.
3. Press [**OK**] or [**Enter**] button to enter the submenu.
4. In the submenu, press [**Left**] or [**Right**] button to toggle between items, press [**Left**] or [**Right**] button to adjust the settings. If there is a submenu, press [**OK**] or [**Enter**] button to enter the submenu.
5. Press [**Back**] button to return to the previous menu, or press [**Home**] button to exit from the OSD menu.

9.1.2. Navigating the OSD menu using the display's control buttons

1. Press [**MENU**] button to display the OSD menu.
2. Press [**+**] or [**-**] button to select the item to adjust.
3. Press [**+**] button to enter the submenu.
4. In the submenu, press [**▲**] or [**▼**] button to toggle between items, press [**+**] or [**-**] button to adjust settings. If there is a submenu, press [**+**] button to enter the submenu.
5. Press [**MENU**] button to return to the previous menu, or keep pressing [**MENU**] button to exit from the OSD menu.

9.2. OSD Menu Overview

9.2.1. Picture menu

Picture	Contrast	50
Audio	Black Level	50
Configuration	Tint	50
Advanced option	Color	55
	Gamma selection	Native
	Color temperature	Native
	Color control	Action
	Picture reset	Action

Contrast

Adjust the contrast ratio for the input signal.

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 (Hue)

Adjust the tint of the screen.

Press + button the flesh tone color becomes greenish.

Press - button the flesh tone color becomes purplish.

Note: VIDEO source only

Color (Saturation)

Adjust the color of the screen.

Press + button to increase color depth.

Press - button to decrease color depth.

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.

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.

9.2.2. Audio menu

Picture	Treble	50
Audio	Bass	50
Configuration	Audio reset	Action
Advanced option		

Treble

Adjust to increase or decrease higher-pitched sounds.

Bass

Adjust to increase or decrease lower-pitched sounds.

Audio reset

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

9.2.3. Configuration menu

Picture	Switch on state	Force on
Audio	Boot on source	Action
Configuration	Light sensor	Off
Advanced option	Human sensor	Off
	HDMI version	1.4
	Information OSD	20
	Monitor ID	Action
	Heat status	xxxxxx
	Configuration reset	Action
	Factory Reset	Action

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.

Light sensor

Choose to turn on or off the light sensor function.

Human sensor

Choose to turn on or off the human sensor function.

HDMI version

Set the HDMI version to { 1.2 } / { 1.4 } / { 2.0}.

Notes: 1. HDMI input source only.

2. If timing setting to 4K60Hz the screen display abnormal, please set the HDMI version to 1.4.

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 the ID number for controlling the display via the RS232 connection. Each display must have a unique ID number when multiple sets of the display are connected. Monitor ID number range is between 1 and 255.

- {Monitor ID} set range in {1-255}. The default setting is 1.
- {Monitor group} set range in {1-254}. The default setting is 1.

Heat Status

Current thermal status.

Configuration reset

Reset all settings in Configuration menu to factory preset values.

Factory Reset

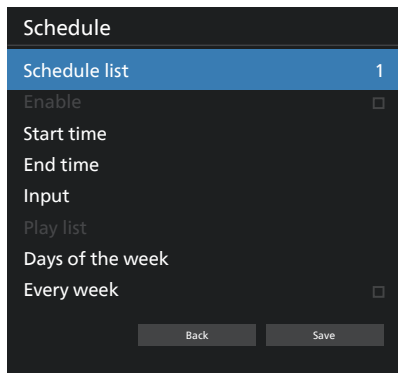
Reset all customized settings in Picture, Screen, Audio, Configuration and Advanced Option to the factory default values.

9.2.4. Advanced Option menu

Picture	Schedule	Action
Audio	HDMI with One Wire	Off
Configuration	Auto signal detection	Off
Advanced option	OPS settings	Auto
	Advanced option reset	Action

Schedule

Allow user setup up to seven different scheduled intervals of display activity.



OPS settings

Set the OPS configuration under each power condition.

- {Auto} - After selecting {Card OPS} for video source input, the OPS will be set to off when the display power is set to off, or vice versa. If you set to other video source inputs, the OPS will always be set to on.
- {Always off} - The OPS will always be set to off.
- {Always on} - The OPS will always be set to on.

Advanced option reset

Reset all settings except {Date and Time} in the advanced option menu to factory preset values.

- {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, user cannot enable this schedule.
- {Start time} – Set start time.
- {End 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 Media Player and Browser sources.
- {Days of the week} – Set Sunday, Monday, Tuesday, Wednesday, Thursday, Friday and Saturday.
- {Every week} – Set lifecycle.
- {Back} – Cancel and do not change schedule data.
- {SAVE} – Save schedule data.

HDMI with One Wire

Enable or disable HDMI CEC.

Auto signal detection

OPTION:

{Off}, {All}, {Failover}

{Off}: Disable Auto signal detection

{All}: HDMI2 -> HDMI3 -> Type-C 1 -> Type-C 2 -> OPS -> Media Player -> Browser -> Custom -> Home

* Not all modules have all source in this list.

* 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) *

Failover 12: Home (default) *

Failover 13: Home (default) *

* Not all modules have all 13 failover list, depends on total source of module

10. Supported Media Formats

USB Multimedia Formats

Video format		
Video Codec	Resolution	Bit Rate
MPEG1/2	1920x1080@60fps	
MPEG4	1920x1080@60fps	
H.263	352x288@30fps	
H.264	3840x2160@30fps	100Mbps
H.265	3840x2160@60fps	97.7Mbps
VP8	1920x1080@30fps	
VP9	3840x2160@60fps	60Mbps

Audio format			
Audio Codec	Sampling Rate:	Channel	Bit Rate
MPEG1/2/2.5 Layer3	8KHz-48KHz	2	8Kbps-320Kbps
AAC-LC, AAC-HE	8 ~ 96 kHz	5.1	

Photo format	
Image	Resolution
JPEG	3840 x 2160
PNG	3840 x 2160
BMP	3840 x 2160
WebP	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.

11. Input Mode

Timing support:

Item	Resolution	Refresh rate
1	800x600	56, 60, 72, 75, 85
2	848x480	60
3	1024x768	60, 70, 75, 85
4	1152x864	75
5	1280x960	60, 85
6	1280x1024	60, 75, 85
7	1360x768	60
8	1366x768	60
9	1600x1200	60, 65, 70, 75, 85
10	1792x1344	75
11	1856x1392	60, 75
12	480p (ED)	60
13	720p (HD)	50, 60
14	1080p (Full HD)	50, 59, 60
15	3840x2160	24, 25, 30, 60

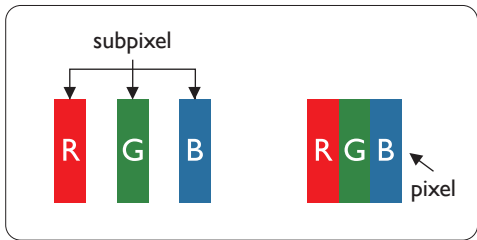
- The PC text quality is optimum in UHD mode (3840 x 2160, 60Hz).
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal 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 best timing for the vertical frequency to each mode is 60Hz.

12. 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 guarantees 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.

12.1. Pixels and Sub-Pixels



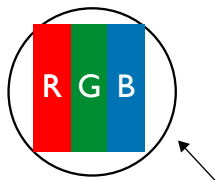
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

12.2. 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.

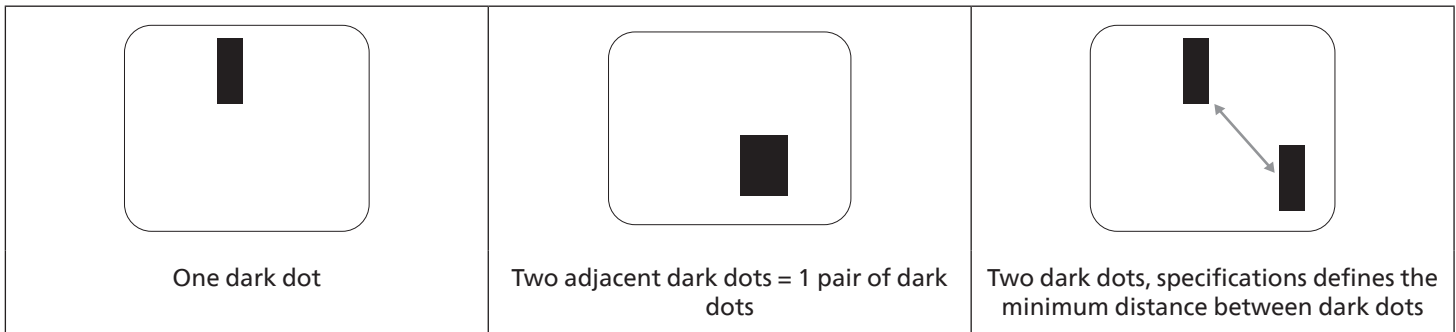
12.3. Bright Dot Defects

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: Red + Blue = Purple Red + Green = Yellow Green + Blue = Cyan (Light Blue)	Three adjacent lit sub pixels (one white pixel)
---	---	--

12.4. 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:



12.5. 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

12.6. 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

12.7. 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

13. Cleaning and Troubleshooting

13.1. 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 insect 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 insect 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).

13.2. Troubleshooting

Symptom	Possible Cause	Remedy
No picture is displayed	1. The power cord is disconnected. 2. The main power switch on the back of the display is not switched on. 3. The selected input has no connection. 4. The display is in the standby mode.	1. Plug in the power cord. 2. Make sure that the power switch is switched on. 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. 2. The input signal is beyond the capabilities of the display.	1. Make sure that the signal cable is attached firmly. 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.
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. 2. Volume is turned all the way down. 3. {Mute} is turned on. 4. No external speaker is connected.	1. Make sure that both video inputs and sound inputs are connected correctly. 2. Press [+] or [-] button to hear sound. 3. Switch MUTE off by using the [MUTE] button. 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.
How to setup the settings in the menu to control all the monitors at the same time and individually via RC?	Daisy chained by RS232 and no IR cable	1. The first display sets as "Primary" on OSD (Advanced option/IR control item), others set as "Secondary". 2. The setup OSD will show on top left side of the display.(Toggle MENU will show again if it disappear) 3. Default setting: ID NO: 0, GP NO: 0, this setting can control all displays by IR. The "+", "-" can change "ID NO" to control signal display by "Monitor ID". The "UP", "DOWN" can change "GP NO" to control multi-display by "Group ID". *The first display is always controlled by IR.

How is the RC working?	Daisy chain: no connection of RS232 and IR cable	No setting is required. Connect with IR cables and control by IR. *This may cause out-of-synchronism phenomenon. It is suggested to use the above settings with RS-232 cable.
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14. Technical Specifications

Display:

Item	Specifications		
	65BDL4152E	75BDL4152E	86BDL4152E
Screen Size (Active Area)	163.9 cm / 64.5 inches	189.3 cm / 74.5 inches	217.4 cm / 85.6 inches
Aspect Ratio	16:9	16:9	16:9
Number of pixels	3840 (H) x 2160 (V)	3840 (H) x 2160 (V)	3840 (H) x 2160 (V)
Pixel pitch	0.372(H) x 0.372 (V) [mm]	0.4296 (H) x 0.4296 (V) [mm]	0.4935 (H) x 0.4935 (V) [mm]
Displayable colors	1.07 Billion colors	1.07 Billion colors	1.07 Billion colors
Brightness (typical)	400 cd/m ²	400 cd/m ²	400 cd/m ²
Contrast ratio (typical)	1200:1	1200:1	1200:1
Viewing angle	178 degrees	178 degrees	178 degrees

In/Out Terminals:

Item		Specifications
Speaker Output	Internal Speakers	20W (L) + 20W (R) [RMS]/6Ω
Audio Output	3.5mm phone jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
RS232	3.5mm phone jack x 2	RS232 in / RS232 out
RJ-45	RJ-45 Jack x 2	10/100/1000 LAN port
HDMI Input	HDMI Jack x 3 (Type A) (19 pin)	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 x 2160/60 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
HDMI Output	HDMI Jack x 1 (Type A) (19 pin)	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 x 2160/60 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
IR Input/Output	3.5mm x 2	IR pass through
Micro USB	Micro USB	Support OTG
USB-B	USB-B x2	Connect touch function to external PC
USB Input	USB3.0 TypeA x3	USB 3.0, Multimedia play and service port
USB-C 1	Type C: 4.5w x1	Power Delivery: 5V/0.9A
USB-C 2	Type C: 65w x1	Power Delivery: 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3.25A

General:

Item	Specifications		
	65BDL4152E	75BDL4152E	86BDL4152E
Power Input	100 - 240V~, 50/60Hz	100 - 240V~, 50/60Hz	100 - 240V~, 50/60Hz
Power Consumption (Max)	300 W	341 W	390 W
Power Consumption (Typ.)	121 W	141 W	173 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]	1492x892.3x116.2 mm	1715.2x1018.3x116.2 mm	1965.1x1158.7x116.2 mm
Weight (Without Stand)	34.7 Kg	45.5 Kg	57.0 Kg
Gross Weight (Without Stand)	42.8 Kg	56.8 Kg	70.7 Kg

NOTE: OPS power consumption budget is 64W.

Environmental Condition:

Item		Specifications
Temperature	Operational	0 - 40°C
	Storage	-20 - 60°C
Humidity	Operational	20 - 80% RH (No condensation)
	Storage	5 - 95% RH (No condensation)
Altitude	Operational	0 - 5,000 m
	Storage / Shipment	0 - 9,000 m

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, 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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