PHILIPS

Professional
Display Solutions

C Line

75BDL8051C
86BDL8051C

User Manual (English)

www.philips.com/welcome

Safety Instructions

Safety precautions and maintenance

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

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

Operation:

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

EU Declaration of Conformity

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

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.

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

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the Radio Equipment Directive (2014/53/EU). The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the Radio Equipment Directive (2014/53/EU).

Europe Statement

IMPORTANT NOTE:

The device is restricted to indoor use only when operating in the 5150 to 5350MHz frequency range. (for 5G product only)

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
IT	LV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	UK

Radiation Exposure Statement:

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

The frequency, mode and the maximum transmitted power in EU are listed below:

2400-2483.5MHz: < 20 dBm (EIRP) (for 2.4G product only)

5150-5250MHz: < 23 dBm (EIRP)

5250-5350MHz: < 23 dBm (EIRP)

5470-5725MHz: < 30 dBm (EIRP)

5725-5825MHz: < 13.98 dBm (EIRP)

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.

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 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.

Polish Center for Testing and Certification Notice

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

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

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

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

Wymagania Polskiego Centrum Badań i Certyfikacji

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

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

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

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

Pozostałe instrukcje bezpieczeństwa

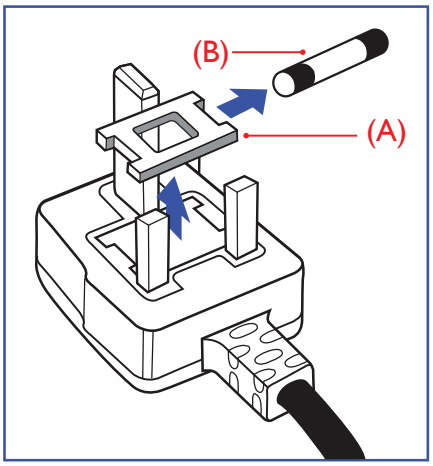
- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami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

Electric, Magnetic and Electromagnetic Fields ("EMF")

1. We manufacture and sell many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
2. One of our leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
3. We are committed to develop, produce and market products that cause no adverse health effects.

4. We confirm that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
5. We play an active role in the development of international EMF and safety standards, enabling us to anticipate further developments in standardization for early integration in its products.

Information for U.K. only



WARNING - THIS APPLIANCE MUST BE EARTHED.

Important:

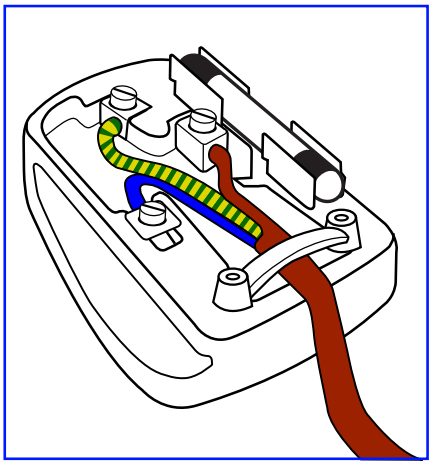
This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:+

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

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

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

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



How to connect a plug

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

BLUE - "NEUTRAL" ("N")

BROWN - "LIVE" ("L")

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

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

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

North Europe (Nordic Countries) Information

Placering/Ventilation

VARNING:

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

Placering/Ventilation

ADVARSEL:

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

Paikka/Ilmankierto

VAROITUS:

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

Plassering/Ventilasjon

ADVARSEL:

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

Turkey RoHS:

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

Ukraine RoHS:

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

End-of-Life Disposal

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

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

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

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

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

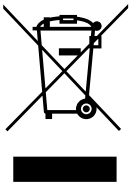
Your new Public Information Display contains several materials that can be recycled for new users.

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

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

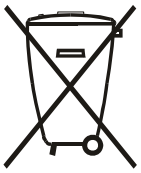
For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

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	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 агенстве связи 14.09.2016 года"

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1. Unpacking and Installation

1.1. Transportation and Unpacking

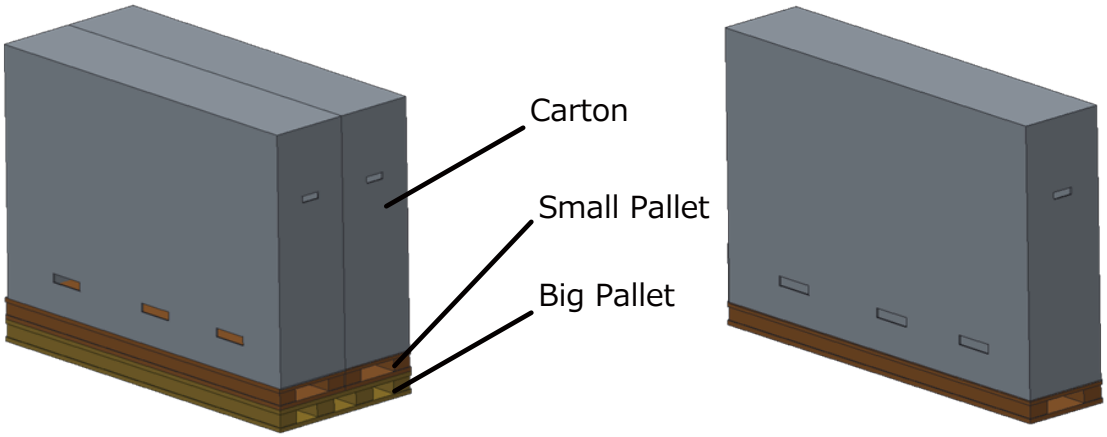
Notice for transportation

- Always keep the carton in a vertical position. Do NOT place the carton in any other direction.

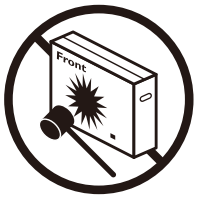
- Do NOT place heavy objects on top of the product.

- Move the carton by stacker.

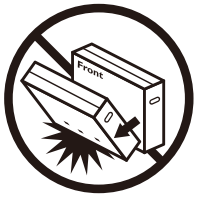
- Move single carton with small pallet by stacker.



- Do NOT apply shock/vibration to the product.

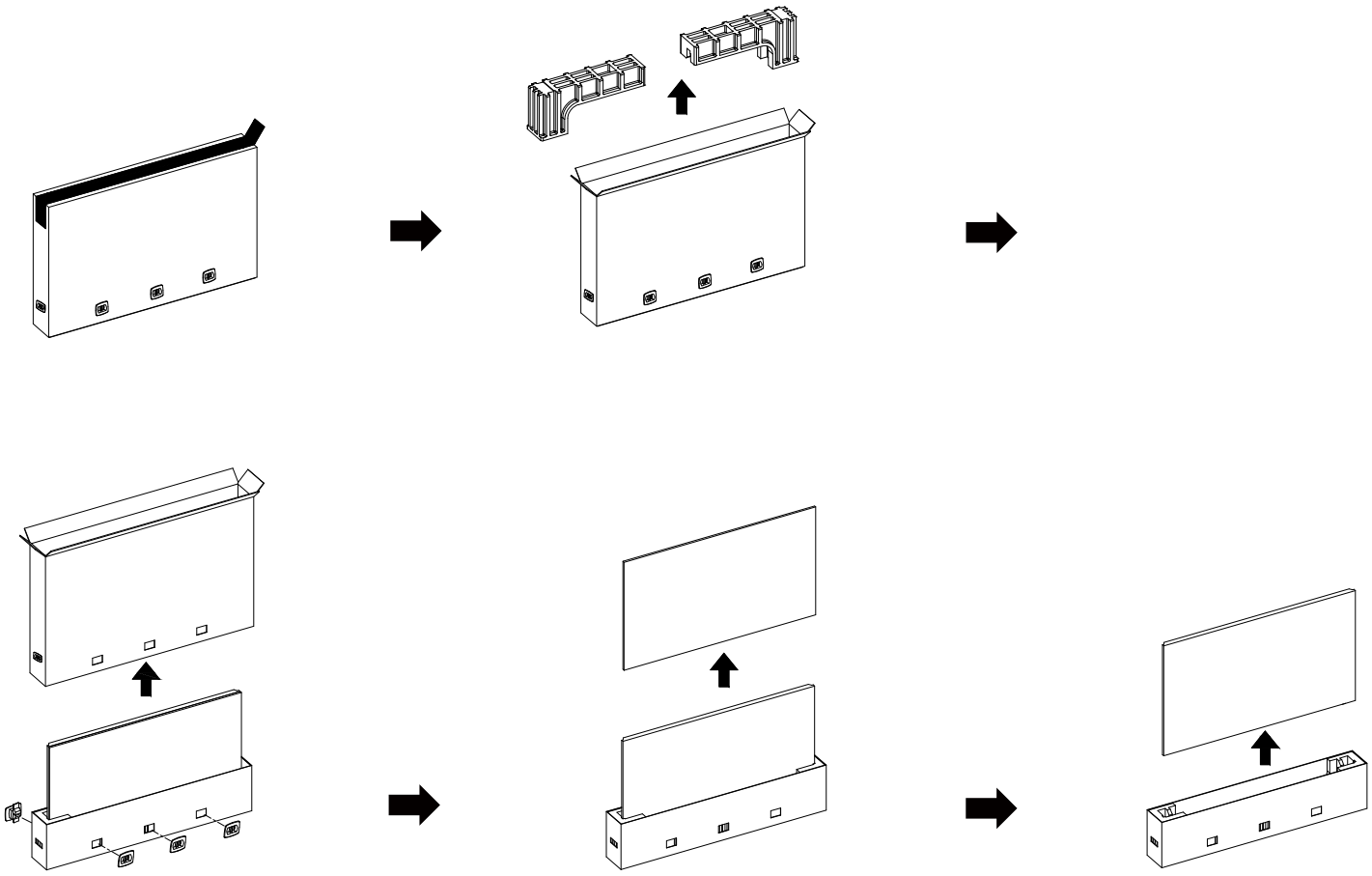


- Do NOT drop the product. Strong impacts may damage the components inside.

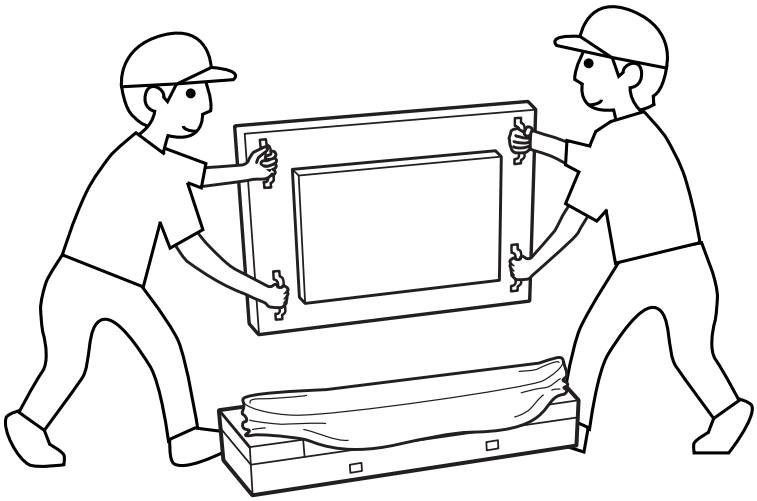


Notice for transportation

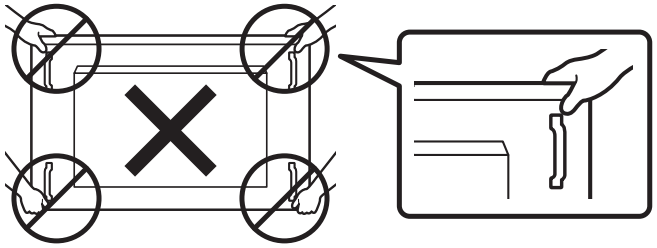
1. Remove the strap around the carton.
2. Use a blade to cut the tape on the top and open the carton.
3. Take out the cushions carefully.
4. Remove the plastic carton lockers and the top carton.

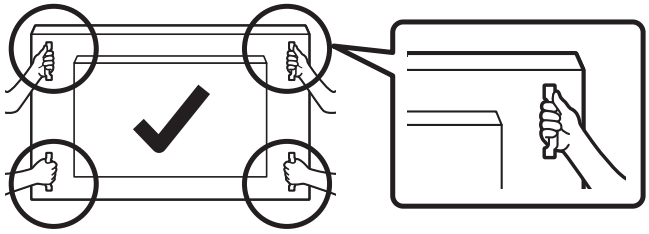


5. Take the display out of the carton box by two adults with both hands.

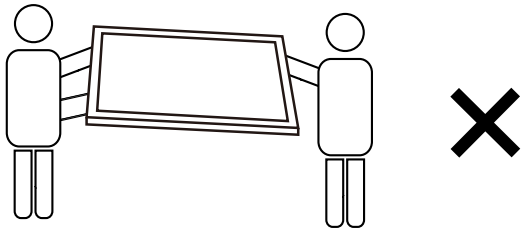


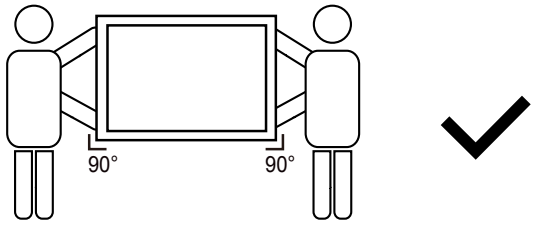
- Do not touch the screen of display to avoid possible scratches. Move the display by holding the handles.



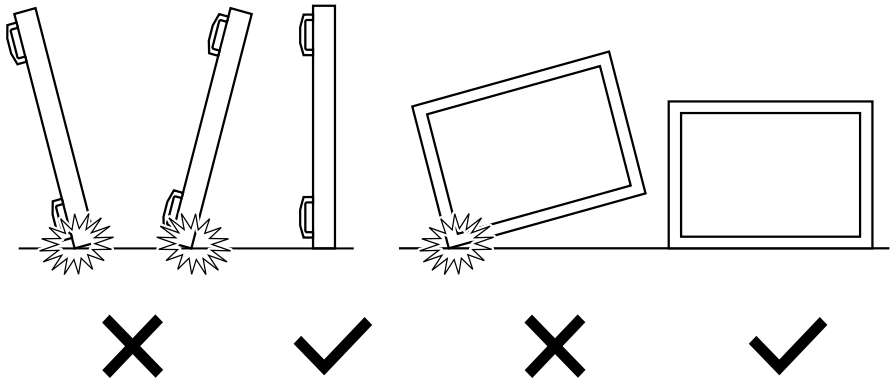


- Keep the display vertically when moving it.





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



Before installing the display

- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- Move the display by at least two (2) adults.
- After opening the carton, ensure that the contents are complete and in good condition.

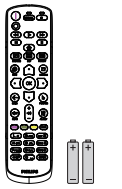
1.2. Package Contents

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

- LCD display
- Quick start guide
- Remote Control and AAA batteries
- Power cable x3
- RS232 cable x1
- RS232 daisy chain cable x1
- IR sensor cable x1
- HDMI cable x1
- DVI cable x1
- USB A-B cable x1
- Touch Pen x2
- HDMI transmitter x2
- USB Cover x1
- Cleaning cloth x1
- Philips logo plate x1
- M3 screw x2
- M2 screw x2

LCD Display

Quick start guide

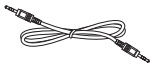


Remote Control and AAA Batteries

* The supplied power cord varies depending on destination.

Power Cable

RS232 Cable

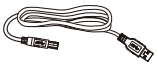


RS232 Daisy Chain Cable

IR Sensor Cable

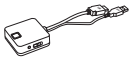
HDMI Cable

DVI Cable



USB A-B Cable

Touch Pen



HDMI transmitter

USB Cover

Cleaning cloth

Philips logo plate

M3 screw

M2 screw

* 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 mm^2 should be used).
- Keep the packaging materials appropriately after unpacking the product.

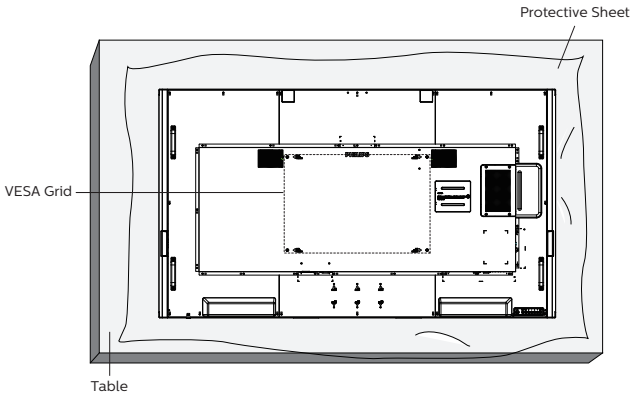
1.3. Installation Notes

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

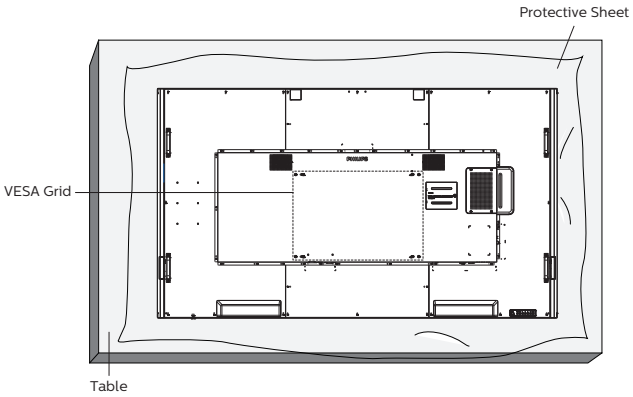
1.4. Mounting on a Wall

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.

75BDL8051C



86BDL8051C



1. Prepare a flat and horizontal surface that is larger than the display and spread a thick protective sheet on it to facilitate your operation without scratching the screen.
2. Ensure you have all accessories for all types of mounting (wall mount, ceiling mount, table stand, etc).
3. Follow the instructions that came with the base mounting kit. Failure to follow the correct mounting procedures could result in damage to the equipment, or injury to 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.
5. 75BDL8051C: Weight of the unit without base=TBD kg. The equipment and its associated mounting facilities still remain secure during the test. Use only the UL listed Wall Mount Bracket with a minimum weight/load of TBD kg.
6. 86BDL8051C: Weight of the unit without base=79.5 kg. The equipment and its associated mounting facilities still remain secure during the test. Use only the UL listed Wall Mount Bracket with a minimum weight/load of 79.5 kg.

1.4.1. VESA Grid

75BDL8051C	600(H) x 400(V) mm
86BDL8051C	600(H) x 400(V) mm

Caution:

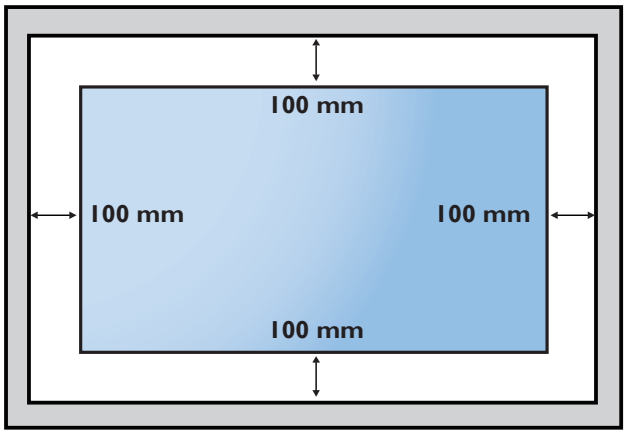
To prevent the display from falling:

- 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

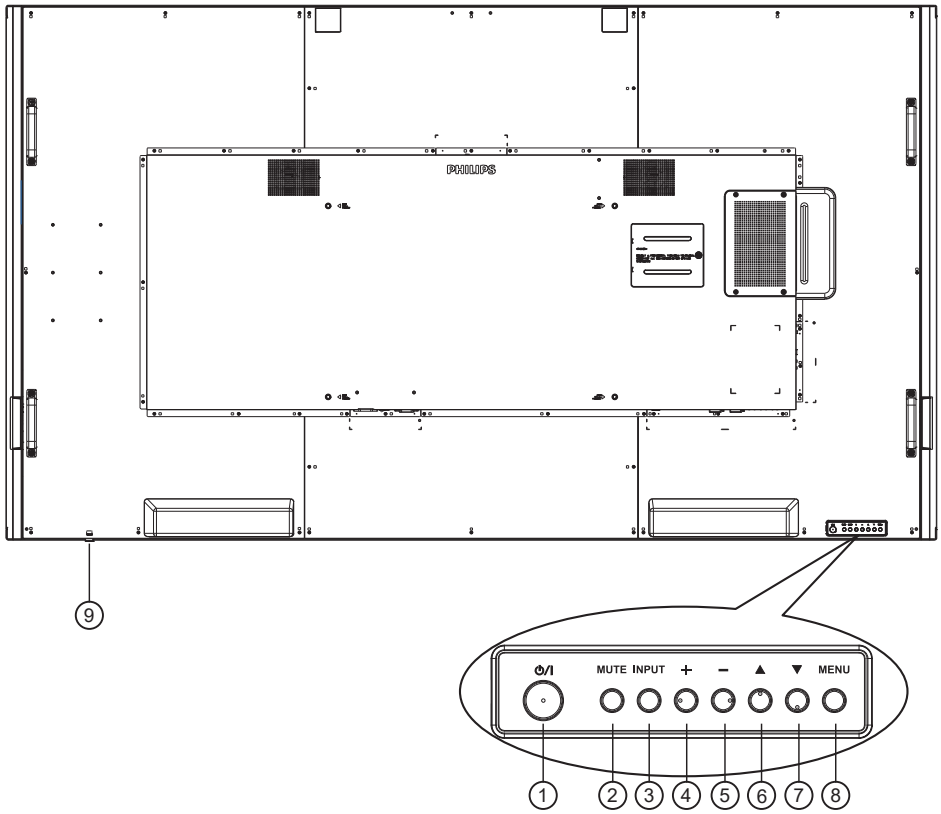
Leave a space of 100 mm at the top, rear, right and left of the display for ventilation.

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.



2. Parts and Functions

2.1. Control Panel



① **[⏻/I] button**
Turn the display On or turn the display to standby mode.

② **[MUTE] button**
Mute the sound or reactivate sound.

③ **[INPUT] button**
Select an input source.

④ **[+] button**
Increase the adjustment while OSD menu is On, or increase the audio output level while OSD menu is Off.

⑤ **[—] button**
Decrease the adjustment while OSD menu is On, or decrease the audio output level while OSD menu is Off.

⑥ **[▲] button**
Move the selected item one level up while the OSD menu is On.

⑦ **[▼] button**
Move the selected item one level down while the OSD menu is On.

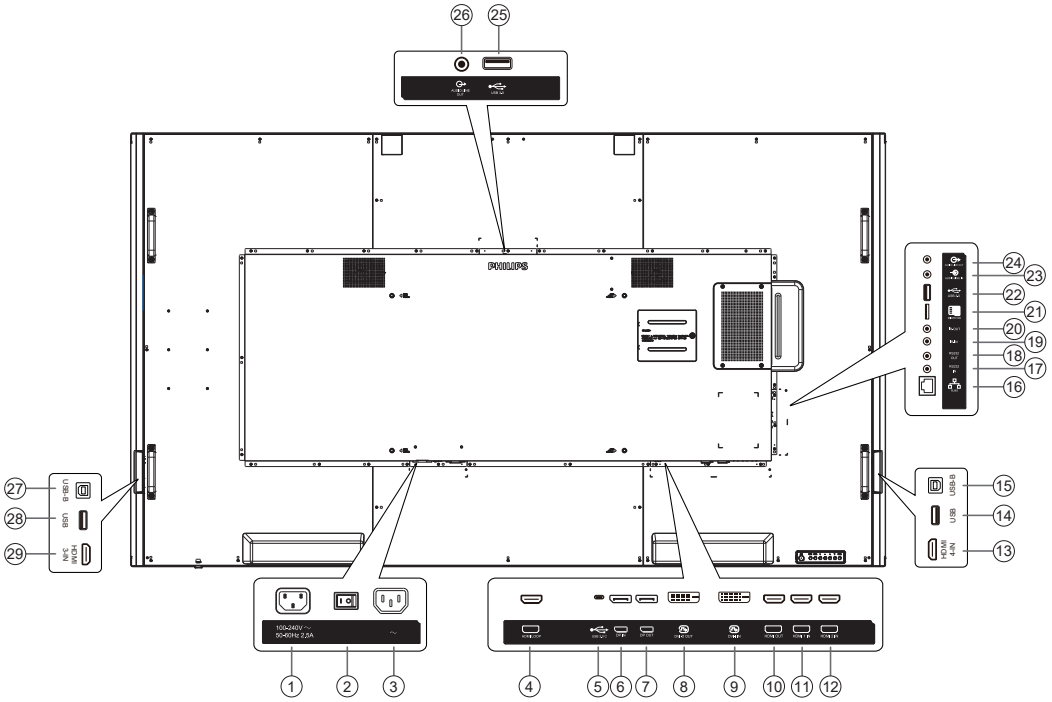
⑧ **[MENU] button**
Return to the previous menu while the OSD menu is On. This button can also be used to activate the OSD menu when the OSD menu is Off.

⑨ **Remote control sensor and power status indicator**

- Receive command signals from the remote control.
- Indicate the operating status of the display without OPS:
  - Light green when the display is turned On
  - Light red when the display is in the standby mode
  - When **{SCHEDULE}** is enabled, the light blinks green and red
  - If the light blinks red, it indicates that a failure has been detected
  - 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 3.5)**

2.2. Input/Output Terminals



① **AC OUT**
AC power supply to the AC IN jack of a media player.

② **MAIN POWER SWITCH**
Switch the main power between On and Off.

③ **AC IN**
AC power input from the wall outlet.

④ **HDMI LOOP**
Screen out to next monitor by HDMI.

⑤ **USB 3.0 C**
Support display and touch function.

⑥ **DisplayPort IN** / ⑦ **DisplayPort OUT**
DisplayPort video input/output.

⑧ **DVI-D OUT** / ⑨ **DVI-I IN**
DVI video output/input.

⑩ **HDMI OUT**
Connect to a sink device via an HDMI cable.

⑪ **HDMI1 IN** / ⑫ **HDMI2 IN** / ⑬ **HDMI4 IN**
Connect to a source device via an HDMI cable.

⑭ **USB**
Connect to a USB storage device.

⑮ **USB-B**
Connect to external PC to support touch function.

⑯ **RJ-45**
The LAN control function is used for sending the remote control signal from the control center in order to install the optional OPS module.

⑰ **RS232 IN** / ⑱ **RS232 OUT**
Android RS232 network input/output is reserved for customized protocol usage from System Integrator.

⑲ **IR IN** / ⑳ **IR OUT**
IR signal input/output for the loop-through function.

NOTES:
- The remote control sensor of this display will stop working if the jack [IR IN] is connected.
- To remotely control your A/V device via this display, refer to page 17 for IR Pass Through connection.

㉑ **MICRO SD**
Insert a Micro SD card.

㉒ **Android USB 3.0 In**
Android USB3.0 Input.

㉓ **AUDIO IN**
Audio input for VGA source (3.5mm stereo phone).

㉔ **AUDIO OUT**
Audio output for external AV device.

㉕ **USB 3.0**
Connect to a USB 3.0 storage device.

㉖ **AUDIO OUT**
Audio output for external AV device.

㉗ **USB-B**
Connect to external PC to support touch function.

㉘ **USB**
Connect to a USB storage device.

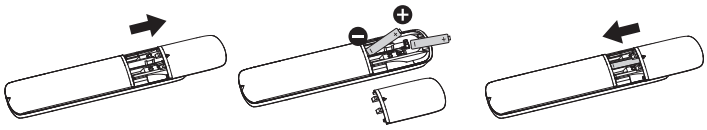
㉙ **HDMI3 IN**
Connect to a source device via an HDMI cable.

2.2.1. 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.

2.2.2. Handling the remote control

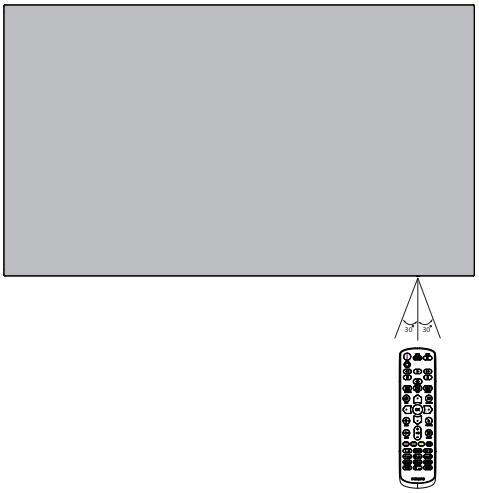
- Do not drop or apply shock to the remote control.
- Do not allow any liquid to get inside the remote control. If water has entered the remote control, wipe the remote control with a dry cloth immediately.
- Do not place the remote control near heat and steam sources.
- Do not attempt to disassemble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

2.2.3. 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.

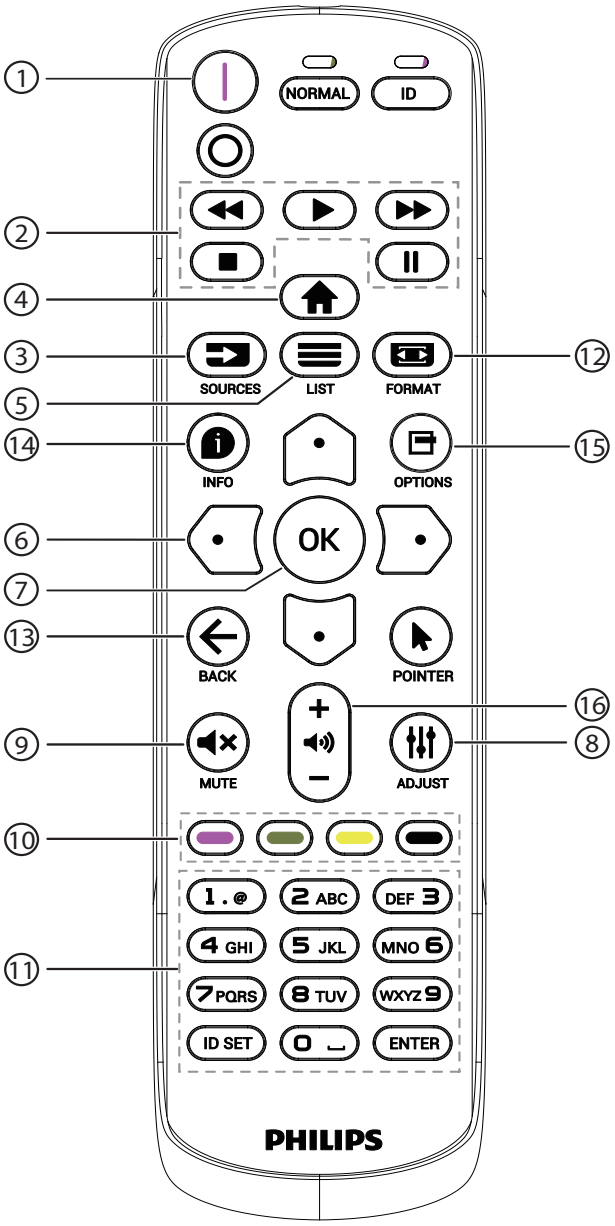
Use the remote control within a distance of less than 5m/16ft from the display’s sensor, and a horizontal and vertical angle of less than 30°.

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.



2.3. Remote Control

2.3.1. General functions



① **[⏻] POWER button**

Turn the power On/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 **[⮕] SOURCE button**

Root Menu: Go to the OSD of Video source.

④ **[⌂] HOME button**

Root Menu: Go to the OSD of Main Menu.

Others: Exit from the OSD.

⑤ **[☰] LIST button**

Reserved.

⑥ **NAVIGATION buttons**

[⌃]

Root Menu: Go to the OSD of Smart picture.
Main Menu: Move the selected item up to make adjustment.

IR Daisy Chain Menu: Increase the controlled Group ID number.

[⌄]

Root Menu: Go to the OSD of Audio source.

Main Menu: Move the selected item bar down to make adjustment.

IR Daisy Chain Menu: Decrease the controlled Group ID number.

[〈]

Main Menu: Go to the previous level of menu.

Source Menu: Exit from the source menu.

Volume Menu: Decrease the volume.

[〉]

Main Menu: Go to the next level of menu or set selected option.

Source Menu: Go to the selected source.

Volume Menu: Increase the volume.

⑦ **[OK] button**

Root Menu: Go to the OSD of IR daisy chain in Primary/ Secondary mode.

Main Menu: Confirm an entry or selection.

⑧ **[🎚] ADJUST button**

Go to the OSD of Auto Adjust (for VGA only).

⑨ **[🔇] MUTE button**

Mute or unmute the sound.

⑩ **[▬] [▬] [▬] [▬] COLOR buttons**

Choose a task or option. (for Media Input only)

[▬] Hotkey for Window selection function.

⑪ **[Number/ ID SET/ ENTER] button**

Enter text for network setting.

Press to set the display ID. Refer to 2.3.2. ID Remote Control for more details.

⑫ **[▭] FORMAT button**

Select image zoom mode form Full, 4:3, 1:1, 16:9, 21:9 or Custom.

⑬ **[←] BACK button**

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

⑭ **[ℹ] INFO button**

Show Information OSD.

⑮ **[▭] OPTIONS button**

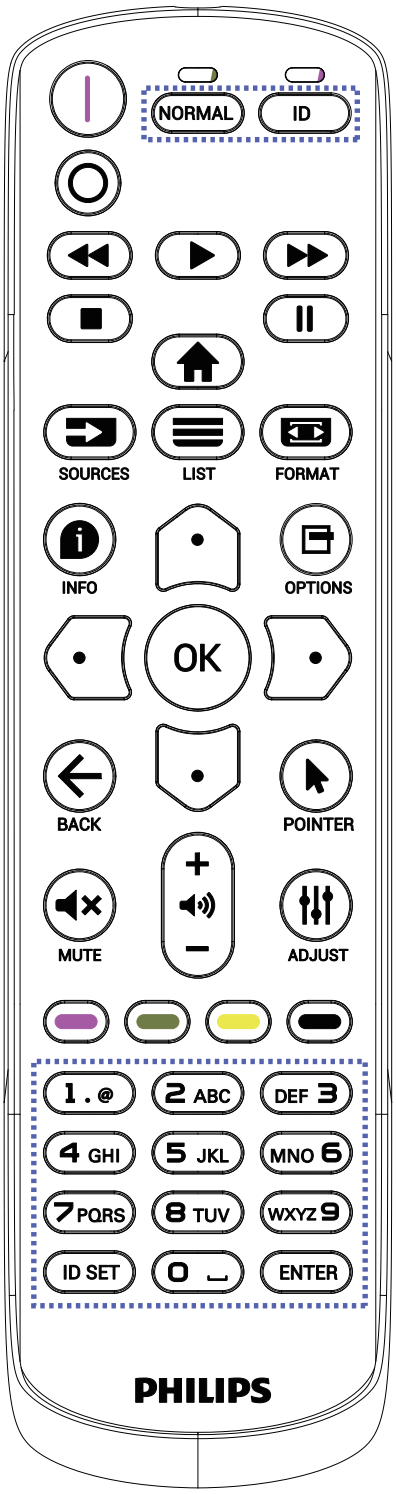
Reserved.

⑯ **[—] [+] VOLUME button**

Adjust the volume.

2.3.2. ID Remote Control

Set remote control ID number when using several displays.



Press the [ID] button and the red LED blinks twice.

1. Press [ID SET] button for more than 1 second to enter the ID Mode. The red LED lights up.
   Press the [ID SET] button again will exit the ID Mode. The red LED lights off.

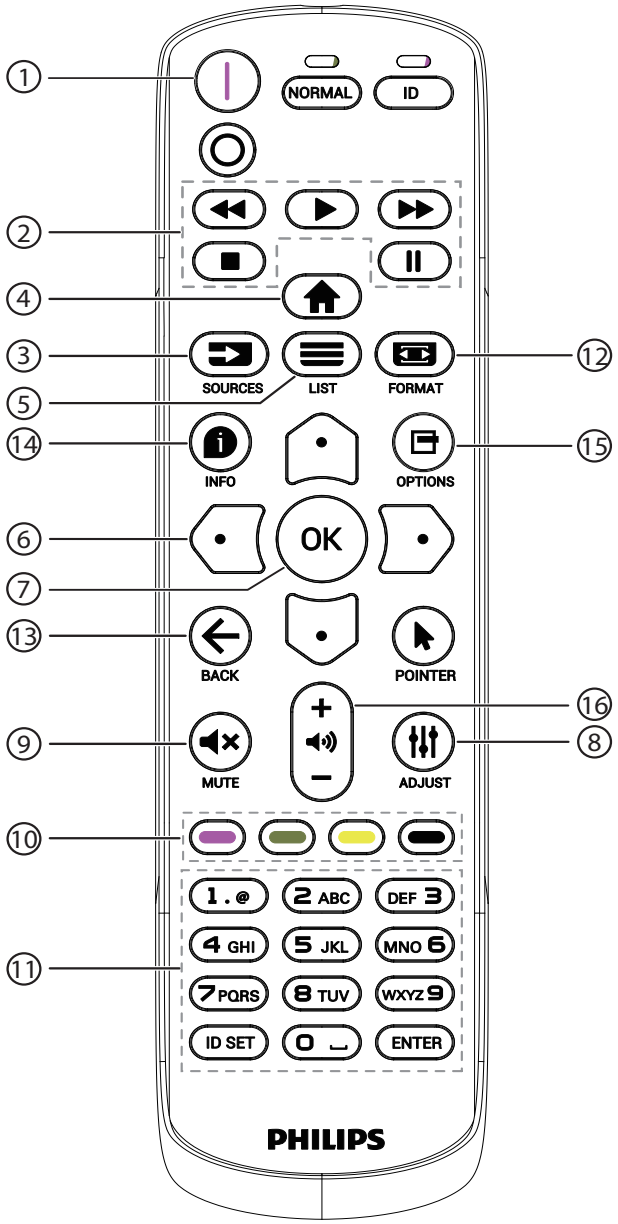
Press the digit numbers [0] ~ [9] to select the display to be controlled.
For example: press [0] and [1] for display No.1, press [1] and [1] for display No.11.
The numbers available are [01] ~ [255].

2. If no button is pressed within 10 seconds, it will exit from the ID mode.
3. If a wrong button is pressed, wait for 1 second until the red LED lights off and then turns on again, then press the correct digits.
4. Press [ENTER] button to confirm your selection. The red LED blinks twice and then lights off.

NOTE:

- Press [NORMAL] button. The green LED blinks twice, indicating that the display is under normal operation.
- It is necessary to set up the ID number for each display before selecting its ID number.

2.3.3. Remote Control buttons on Android source



① **[⏻] 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 [OK] to play all media files from the playlist.

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

2. Play the PDF file

There are 3 ways to play the PDF files.

1) File Manager

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

2) PDF Player -> Play -> choose non-empty play list -> press [OK] to play all PDF files from the playlist.

3) Set pdf playlist in Boot on Source or Schedule by OSD menu.

3. When playing a PDF, 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.

4. When playing a PDF, video or music file, you can press [⏸] button to pause playing.

5. All media or PDF files should be located in the folder of “philips”, under the root directory of the specified storage (internal/USB/SD Card). All sub-folders (video/photo/music/pdf) 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/

pdfs : {root dir of storage}/philips/pdf/

Note that the root directories of three storages are

Internal storage: /sdcard

USB storage: /mnt/usb_storage

SD card : /mnt/external_sd

③ **[⇥] SOURCE button**

Select an input source.

The button is only controlled by Scalar.

④ **[⌂] HOME button**

Access the OSD menu.

The button is only controlled by Scalar.

⑤ **[☰] 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 **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.

3. For PDF files,

» when zoom in/out is performed,

Press [△] , [▽] , [◁] or [▷]to adjust the position of the screen.

» when zoom in/out is not performed,

Press [▷] to go to the next page.

Press [◁] to go to the previous page.

⑦ [OK] button

Confirm an entry or selection.

⑧ [] 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.

⑨ [] MUTE button

Mute or unmute the sound.

The button is only controlled by Scalar.

⑩ [] [] [] [] COLOR buttons

1. For PDF files,

press [] button to perform zoom-in;

press [] button to perform zoom-out.

After zoom-in or zoom-out, press [OK] button to revert the PDF file to the original size.

⑪ [Number/ ID SET/ ENTER] button

1. ID SET [ID SET] and ENTER [ENTER] are reserved on Android source. These buttons are only controlled by Scalar.

2. For PDF file, enter the page number by pressing number buttons and then press [OK] button to enter the specified page.

⑫ [] FORMAT button

Change picture format. The button is only controlled by Scalar.

⑬ [] BACK button

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

⑭ [] 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 [INFO] to show the information of the selected media file.

⑮ [] OPTIONS button

Open the toolbox from Media Player or PDF Player.

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

2. PDF Player ->Compose -> Edit or add a new playlist -> press [OPTIONS] to open a toolbox. The toolbox will slide from the left side of the screen.

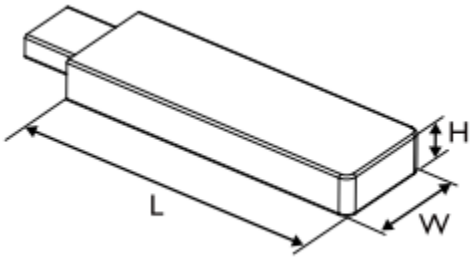
⑯ [—] [+] VOLUME button

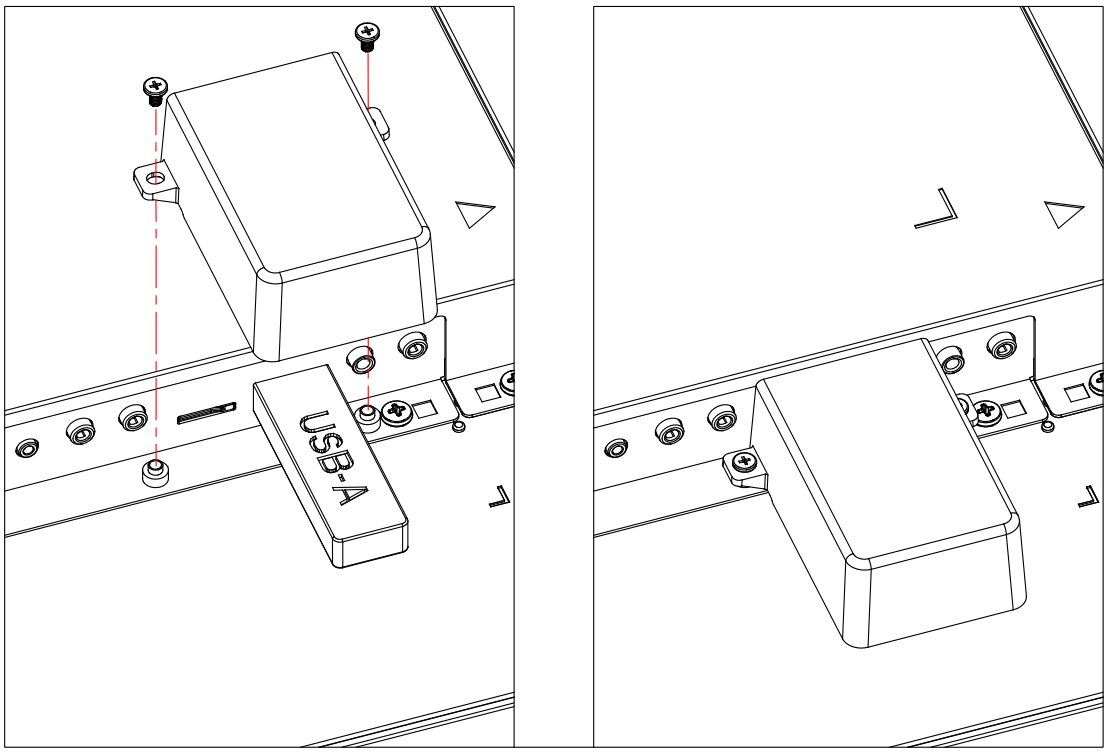
Adjust volume level. The buttons are only controlled by Scalar.

2.4. USB Cover

- Plug in the USB device and insert the micro SD card.
- Use the screw provided to fix the USB cover.

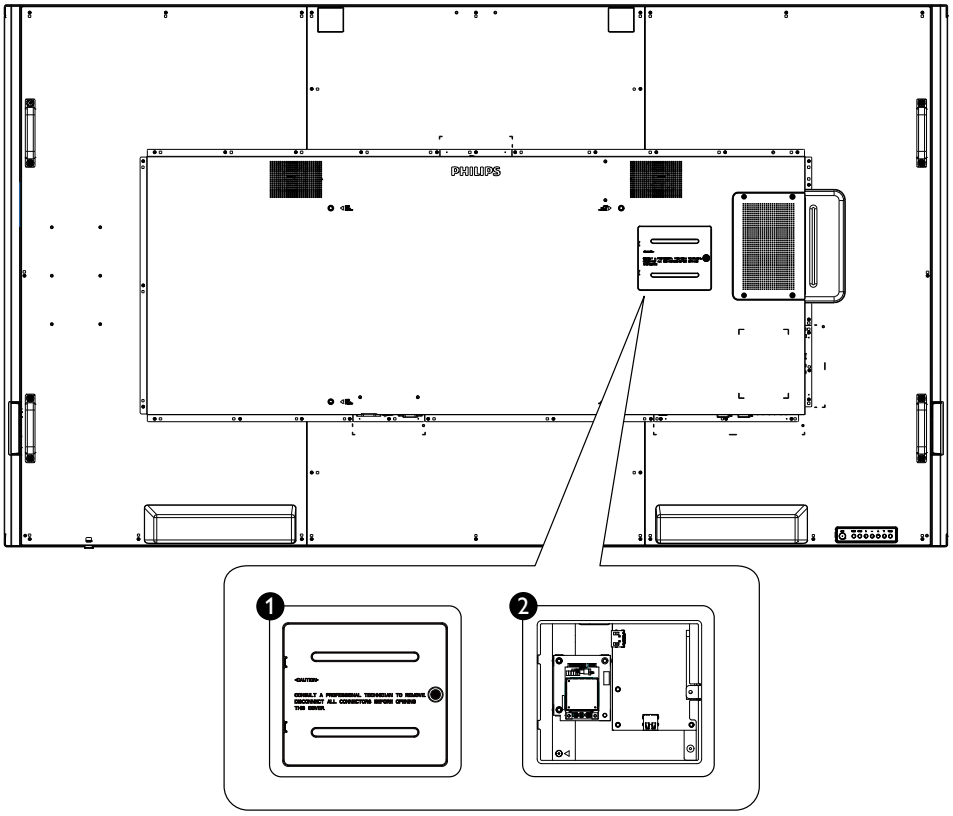
Maximum suitable USB stick size: 20(W)x10(H)x80(L) mm





2.5. 4G Module

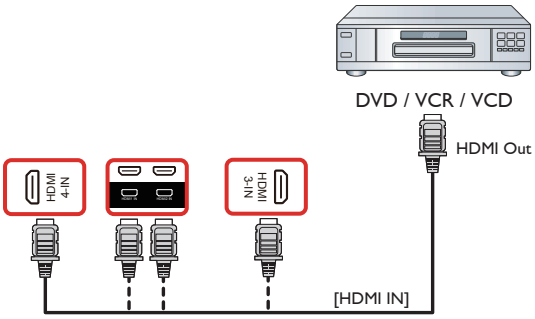
1. Please consult a professional technician to install the 4G module.
2. Power off the display.
3. Install the 4G module, fix it by using the M2 screws on accessory if necessary.
4. Connect the antenna to the 4G module.
5. Fix the service cover to the display.



3. Connecting External Equipment

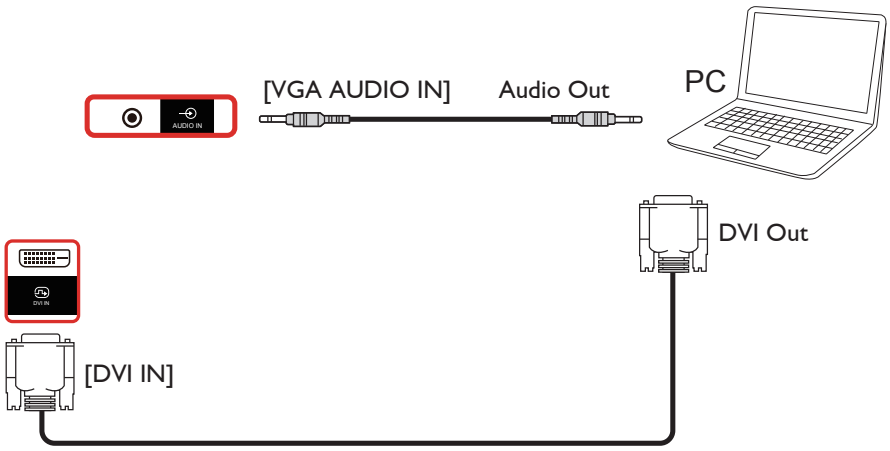
3.1. Connecting External Equipment (DVD/VCR/VCD)

3.1.1. Using HDMI video input

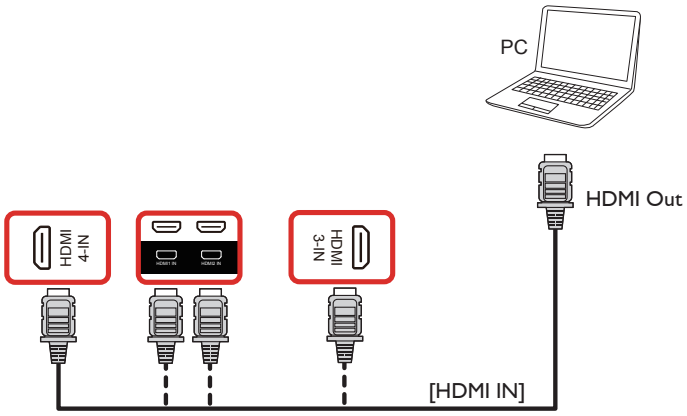


3.2. Connecting a PC

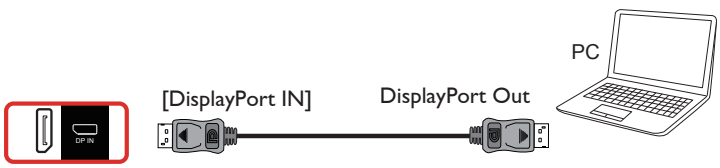
3.2.1. Using DVI input



3.2.2. Using HDMI input

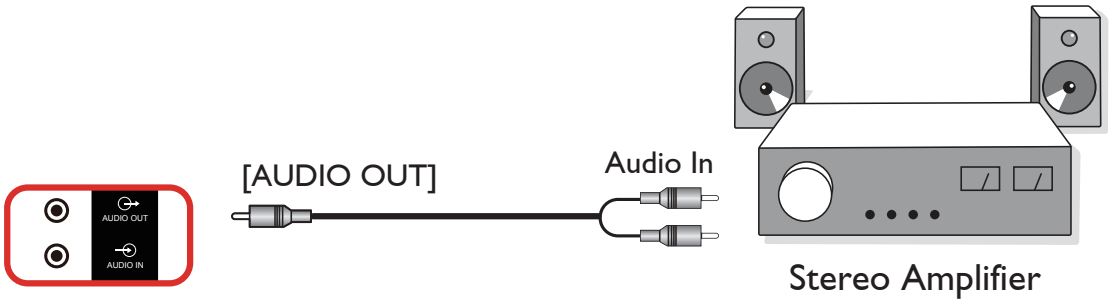


3.2.3. Using DisplayPort input



3.3. Connecting Audio Equipment

3.3.1. Connecting an external audio device

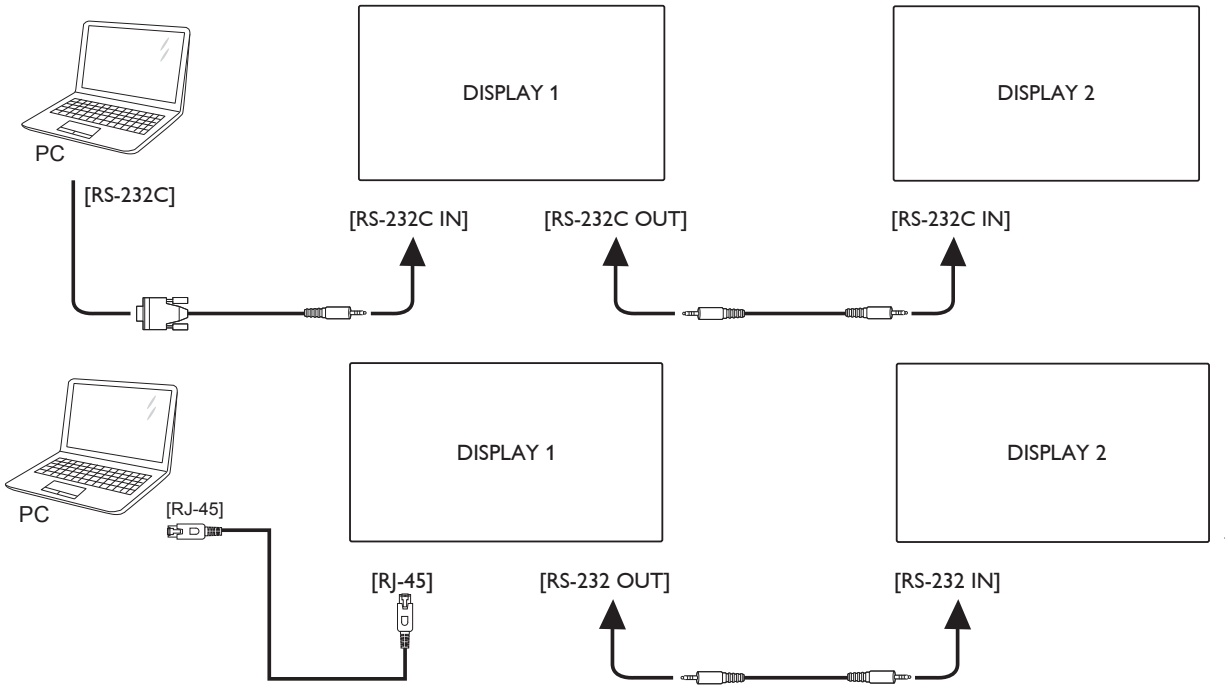


3.4. Connecting Multiple Displays in a Daisy-chain Configuration

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

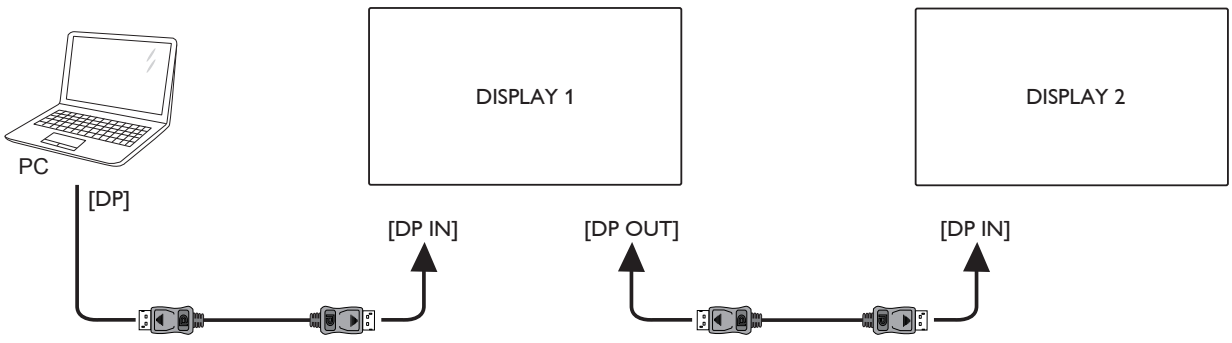
3.4.1. Display control connection

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

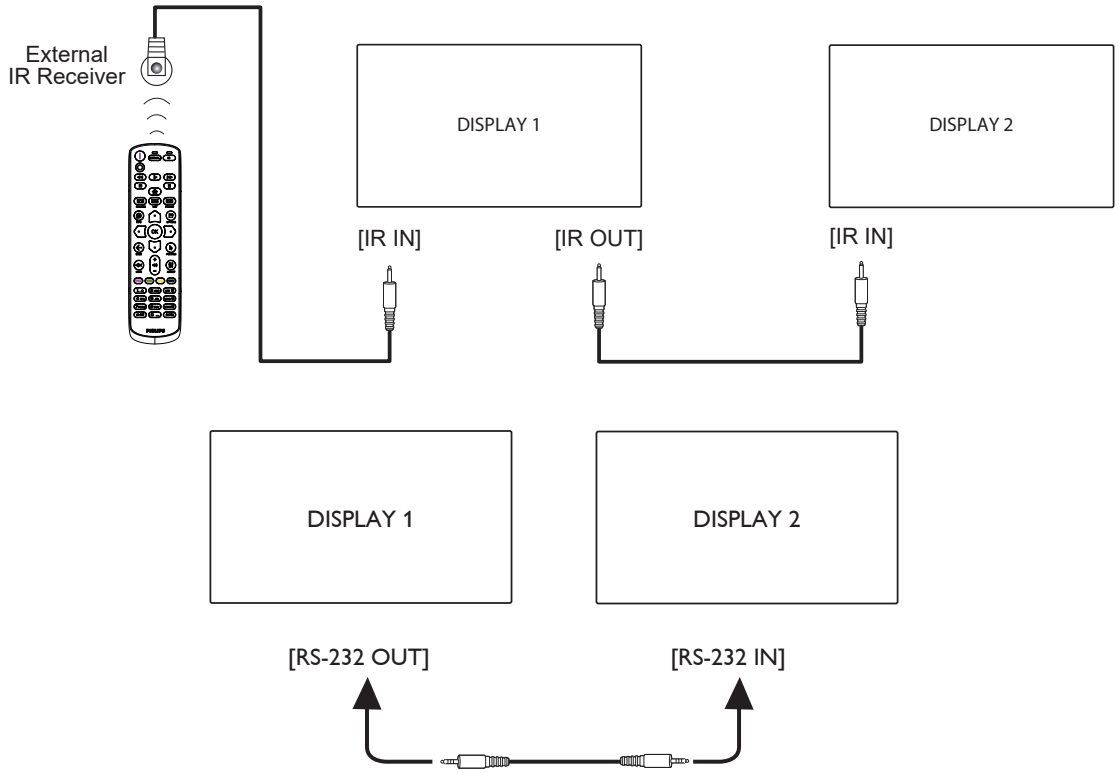


3.4.2. Digital video connection

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



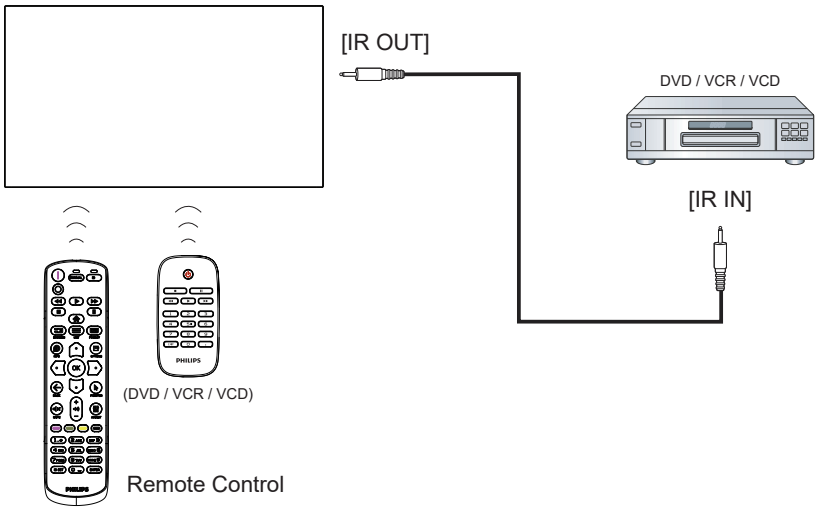
3.5. IR connection



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.

3.6. IR Pass-through Connection



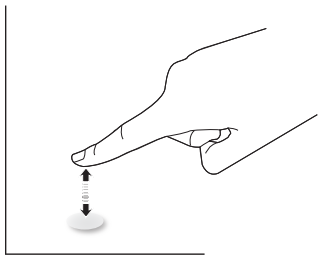
3.7. Touch Operation

This display is equipped with a touch-sensitive screen and supports the **Windows Touch** features either by singletouch or multitouch 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

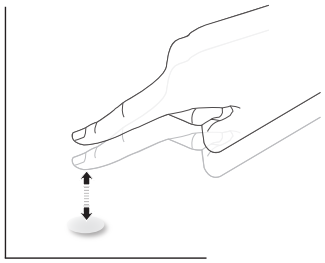
Touch the target on the screen with one fingertip for one quick tap, then release.



Please note that a touch screen will respond to a light touch from your fingertip when tapping within 4mm above touch screen.

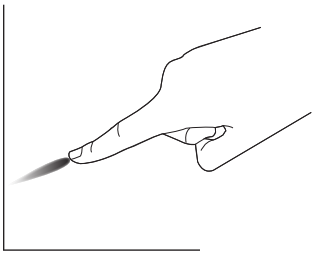
Double Tap

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



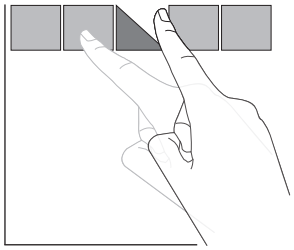
Pan

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



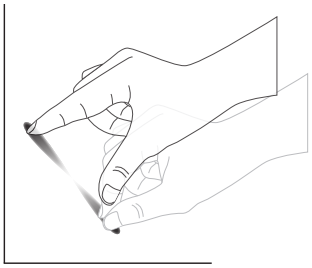
Flick

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



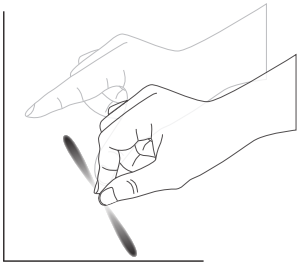
Zoom in

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



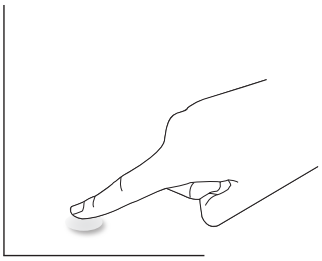
Zoom out

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.

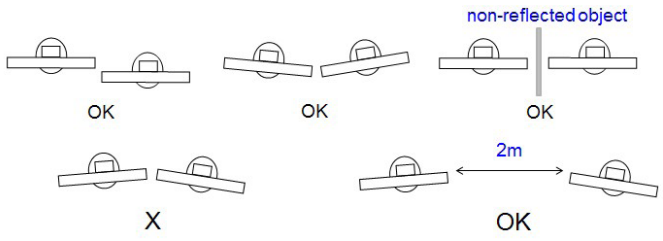
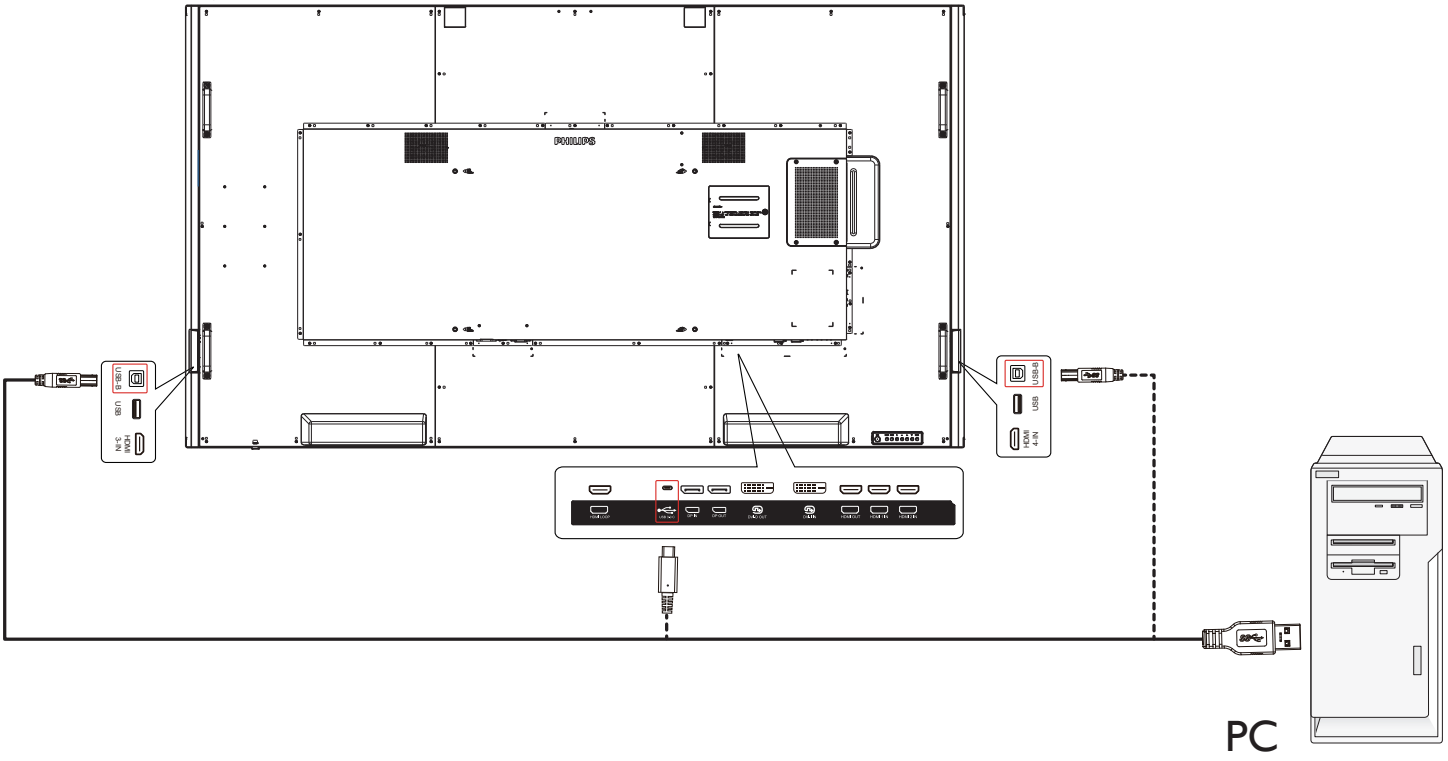


Fig. Touch screens interference

Touch function supports 10 touch points. The OS supported is listed below:

Item	Description		
Operating Systems Supported by Plug-and-Play	Windows 7, 8/8.1, 10		
Supported Modes of Operation by the Operating System	OS	Single Touch	Passive Pen
	Windows 7, 8/8.1, 10	O	O
	Mac OSX	O	O
	Android 6.0: Up to Android 6.0	O	O

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



4. Operation

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

4.1. Watch the Connected Video Source

1. Press the [⮕] SOURCE button.
2. Press [⌂] or [⌄] button to select a device, then press [OK] button.

4.2. Change Picture Format

You can change the picture format to suit the video source. Each video source has its available picture formats.

The available picture formats depend on the video source:

1. Press [▭] FORMAT button to select a picture format.
   - PC mode: {Full} / {4:3} / {Real} / {21:9}/ {Custom}.
   - Video mode: {Full} / {4:3} / {Real} / {21:9}/ {Custom}.

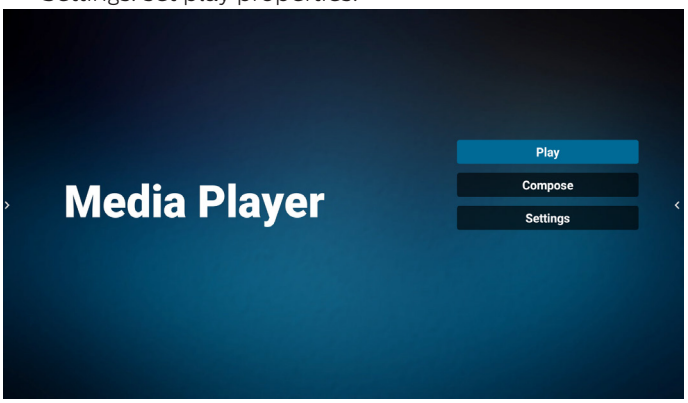
4.3. Media Player

4.3.1. Settings menu interaction with media player:

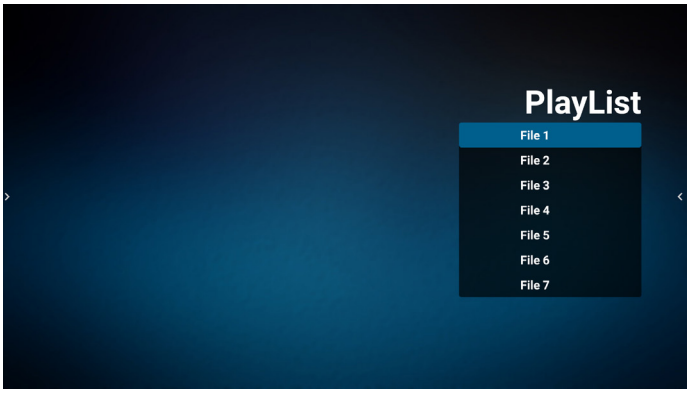
1. Boot on source:
   - Input:
     - If you select “Media Player” as the source, the system will enter Media Player automatically after the boot process is completed.
   - Playlist:
     - Main page: go to the main page of media player.
     - Playlist 1 -Playlist 7: go to media player and playback File1 - File7 from the playlist automatically.
     - Playlist 8: 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.
   - Play list:
     - 1 - 7: go to media player and playback File1 - File7 from the playlist automatically.
   - Days of the week:
     - Set Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
   - Every week:
     - Set a weekly schedule.
   - Save:
     - Save the schedule.

4.3.2. Media Player introduction:

1. Main page of Media Player app, this App consists of three items: “Play”, “Compose” and “Settings”.
   Play: select a playlist to play.
   Compose: edit playlist.
   Settings: set play properties.



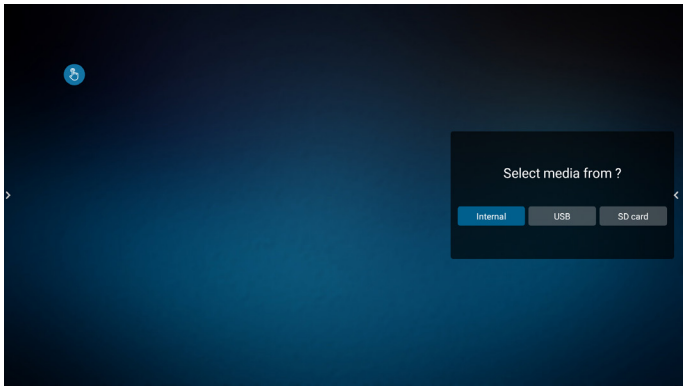
2. Select “Play” on the main page, first you should choose one playlist to play between FILE 1 and FILE 7.
   The pencil icon means the playlist is non-empty.



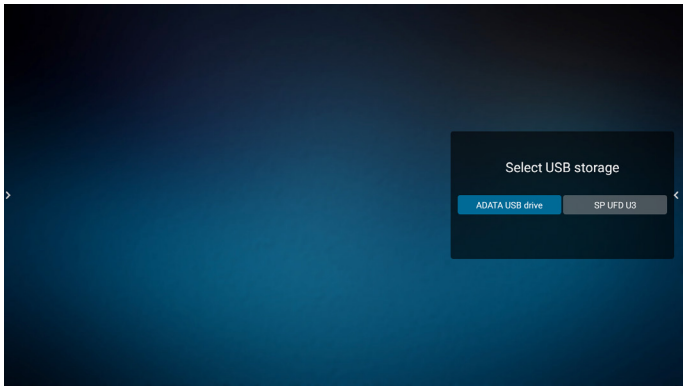
3. Select “Compose” on the main page, first you should choose one playlist to edit between FILE 1 and FILE 7.
   The pencil icon means the playlist is non-empty.

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

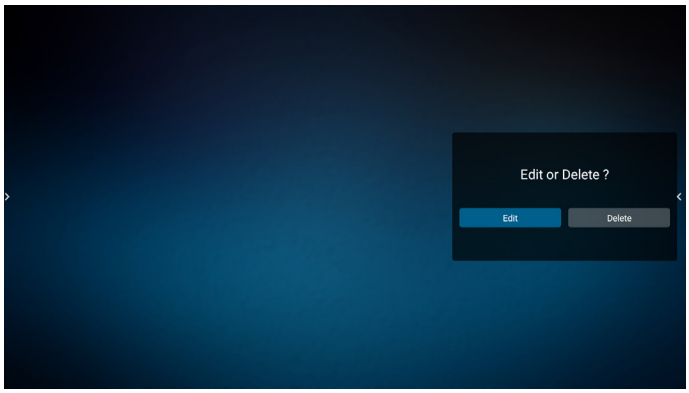
All media files should be placed in /philips/ of root directory.
For example,
- videos in /philips/video/
- photos in /philips/photo/
- music in /philips/music/



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

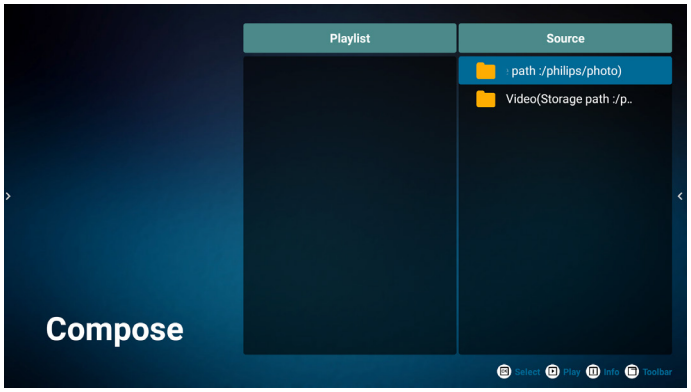


6. To edit or delete a non-empty playlist, select the desired playlist that shows a pencil icon on right side of the file.

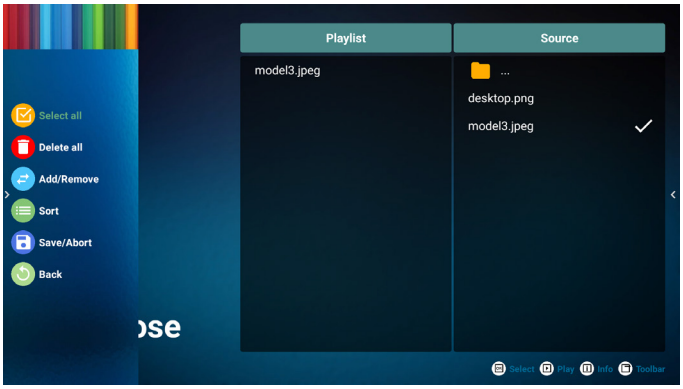


7. Once you start to edit a playlist, a menu is displayed as below:
Source - files in storage.
Playlist – files in playlist.
Option – launch slidebar.
Play – play media file.
Info – show media info.
Touch file – select/unselect file.

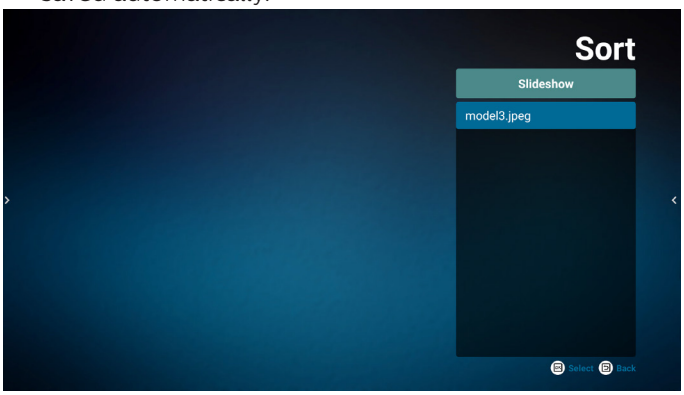
NOTE: When long press on one of the directory in Source, full path will be display on the light bar.



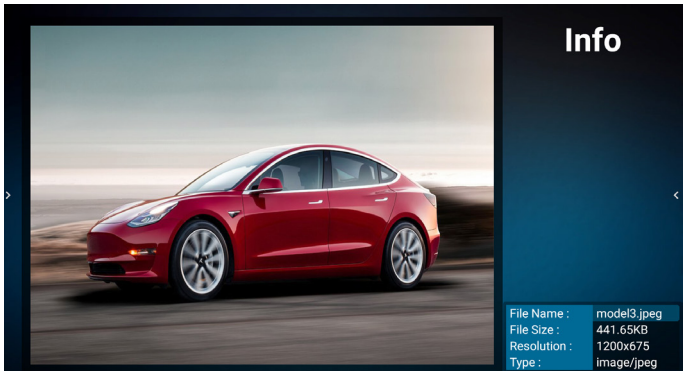
7.1 In the slidebar, the following functions are available:
- Select all: select all storage files.
- Delete all: delete all playlist files.
- Add/Remove: update playlist from source.
- Sort: sort playlist.
- Save/abort: save or abort playlist.
- Back: return.



8. If “Sort” is selected, you can customize the file order severally.
NOTE: When leaving from this page, all data will be saved automatically.

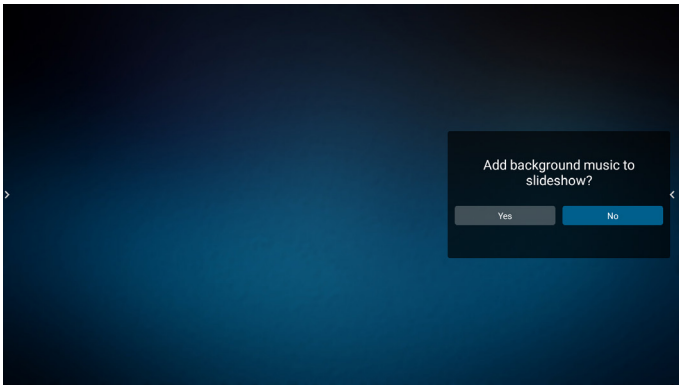


9. After selecting the desired file, press “Info” key to get detailed information.

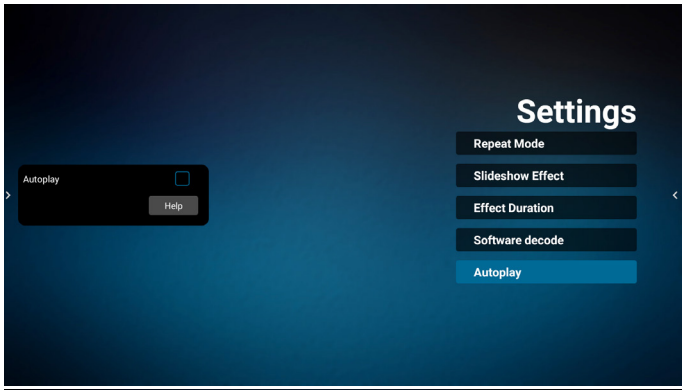


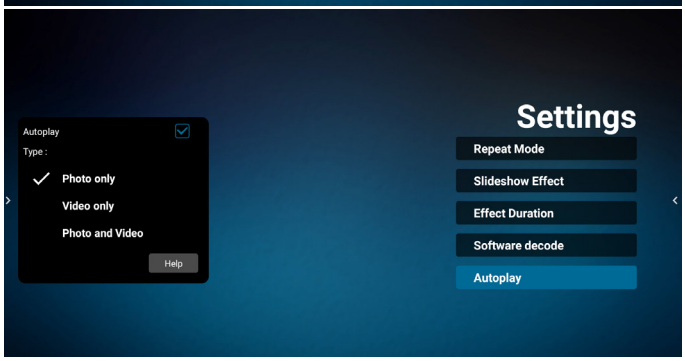
10. After selecting the desired file, press **“Play”** key to play the media file immediately.

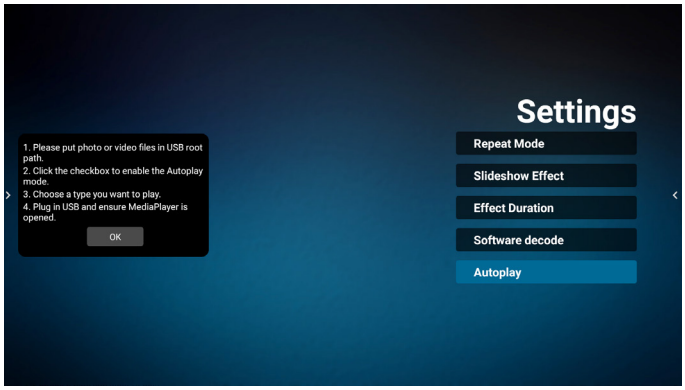
11. If you created a playlist with all image files, you will be asked to add a background music to the slideshow before saving.



12. Select “Settings” the main page, there are five options available: “Repeat Mode”, “Slideshow Effect”, “Effect Duration”, “Software Decode” and “Autoplay”.
Repeat Mode: select repeat once or repeat all.
Slideshow Effect: photo slideshow effect (right to left, fold corner or none).
Effect Duration: photo effect duration (5 seconds, 10 seconds, 15 seconds or 20 seconds).
Software Decode: no black screen between videos play (enable, disable).
Autoplay: Plug in the USB and it will automatically play files from USB root path. (enable and disable autoplay, photo only, video only, photo and video, help).







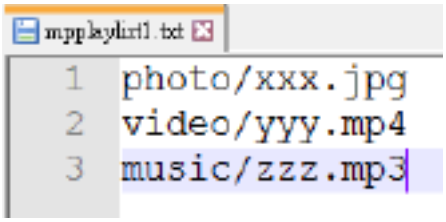
13. Media Player import text file

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 FTP to do this.

- File path : /storage/emulated/legacy/philips (for DL, PL)
  Ex. /storage/emulated/legacy/philips/mpplaylist1.txt

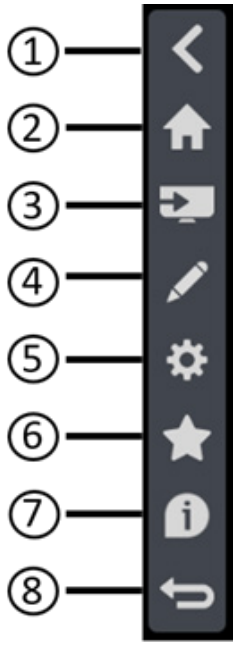
Step 3. Prepare media files to “photo”, “video” and “music” folder under “philips” folder, internal storage only.

- 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 written on playlist text file.

4.4. Side Bar



① **Hide**
Hide side bar.

② **IMD Home**
Open IMD Home.

③ **Source menu**
Open source menu.

④ **IWB**
Open IWB, this item is not displayed under the IMD Home.

⑤ **OSD Menu**
Open OSD menu.

⑥ **My Favorite**
Open my favorite, add or remove frequently used APK.

⑦ **Quick info**
It will display the information of Time, Network and Monitor Information.

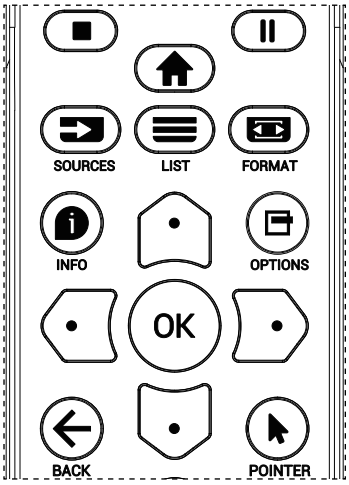
⑧ **Back**
Return to the previous page or exit from the previous function.

5. 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.

5.1. Navigating the OSD Menu

5.1.1. Navigating the OSD menu using the remote control



1. Press [⌂] button on the remote control to display the OSD menu.
2. Press [△] or [▽] button to select the item to adjust.
3. Press **[OK]** or [▷] button to enter the submenu.

In the submenu, press [△] or [▽] button to toggle between items, press [◁] or [▷] button to adjust the settings. If there is a submenu, press **[OK]** or [▷] button to enter the submenu.

5. Press [←] button to return to the previous menu, or press [⌂]button to exit from the OSD menu.

NOTES:

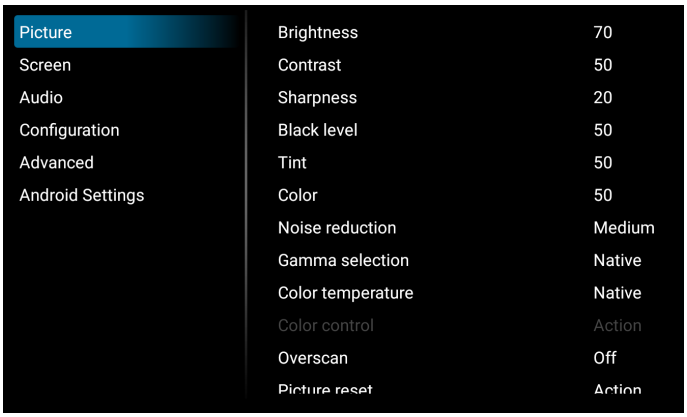
- When the OSD menu is not on the screen, press [△] to display the menu of **{Smart picture}**.
- When the OSD menu is not on the screen, press [▽] to display the menu of **{Audio source}**.

5.1.2. 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.

5.2. OSD Menu Overview

5.2.1. Picture menu



Brightness

Adjust the brightness of this display's backlight.

Contrast

Adjust the contrast ratio for the input signal.

Sharpness

Adjust the sharpness to improve the image detail.

Black level

Video black level is defined as the level of brightness at the darkest (black) part of a visual image. Adjust the black level of this display.

Tint

Adjust tint of the screen.

Press [▶] button to make the tone color greenish. Press [◀] button to make the tone color purplish.

NOTE: This item applies to Video mode(YUV color space) only.

Color

Adjust the intensity of colors in the image.

NOTE: This item applies to Video mode(YUV color space) only.

Noise reduction

Reduce picture noise. You can select a suitable noise reduction level.

The options are: **{Off}** / **{Low}** / **{Medium}** / **{High}**.

NOTE: This item applies to Video mode(YUV color space) only.

Gamma selection

Gamma is what controls the overall brightness of an image. Images which are not corrected properly can appear too white or too dark, so controlling the gamma properly can have a huge influence on the overall picture quality of your display.

The options are: **{Native}** / **{2.2}** / **{2.4}** / **{S gamma}** / **{D-image}**.

Color temperature

Select a color temperature for the image. A lower color temperature will have a reddish tint, while a higher color temperature gives off a more bluish tint.

The options are: **{3000K}** / **{4000K}** / **{5000K}** / **{6500K}** / **{7500K}** / **{9300K}** / **{10000K}** / **{Native}** / **{User 1}** / **{User 2}**.

Color control

You can adjust the color tones of the image precisely by changing the User-R (Red), User-G (Green) and User-B (Blue) settings independently.

{Picture} - **{Color temperature}** - **{User}** setting to **[User 1]**

Or, you can adjust the color tones per 100K in the range of 2000K to 10000K.

{Picture} - **{Color temperature}** - **{User}** setting to **[User 2]**

Over scan

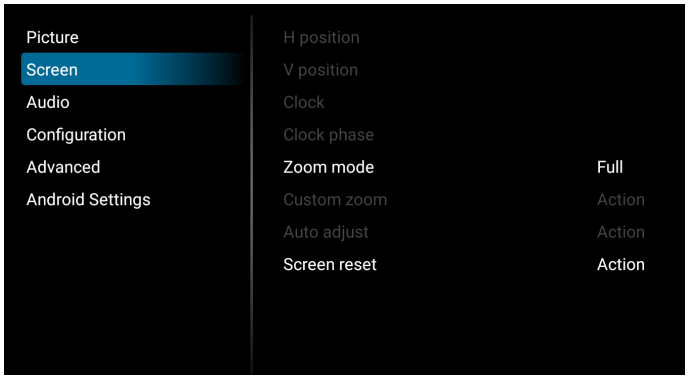
Change the display area of the image.

- **{Over scan}** - Display about 95% of the original size of the image. The rest of the areas surrounding the image will be cut off.
- **{Under scan}** - Display the image in its original size.

Picture reset

Reset all settings in the Picture menu.

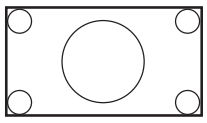
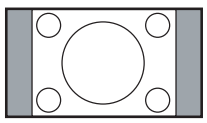
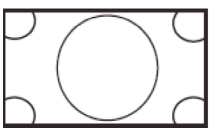
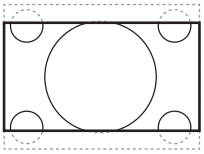
5.2.2. Screen menu



Zoom mode

The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen). The 16:9 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). Zoom Mode will be deactivated when **{Pixel Shift}** is activated or turned on, and when **{Tiling}** is enabled.

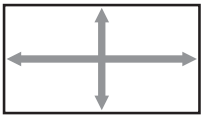
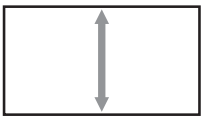
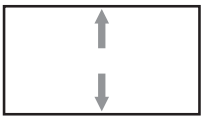
Choose from: **{Full}** / **{Normal}** / **{Real}** / **{21:9}** / **{Custom}**.

	Full This mode restores the correct proportions of pictures transmitted in 16:9 using the full screen display.
	Normal The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.
	**Real** This mode displays the image pixel-by-pixel on screen without scaling the original image size.
	**21:9** The picture is enlarged to 21:9 format. This mode is recommended when displaying pictures that have black bands at the top and bottom (letterbox format).
	Custom Apply the custom zoom settings in the Custom Zoom submenu.

Custom zoom

Use this function to further customize the zoom to suit the image you want to display.

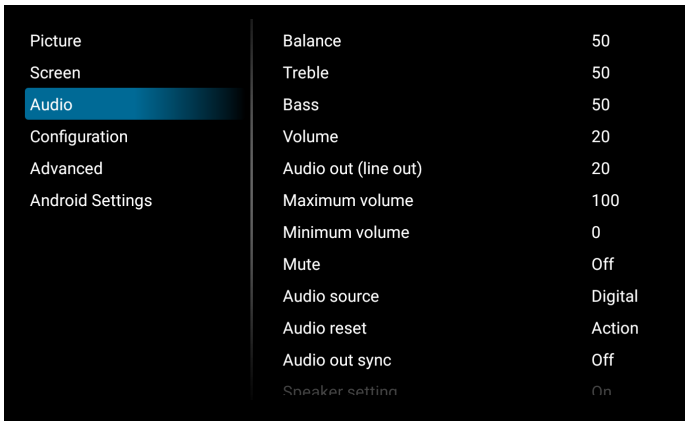
NOTE: This item works only when the {Zoom mode} is set to {Custom}.

	**Zoom** Expands the horizontal and vertical sizes of image simultaneously.
	H zoom Expands the horizontal size of image only.
	**V zoom** Expands the vertical size of image only.
	H position Moves the horizontal position of image left or right.
	**V position** Moves the vertical position of image up or down.

Screen reset

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

5.2.3. Audio menu



Balance

Adjust to emphasize left or right audio output balance.

Treble

Adjust to increase or decrease higher-pitched sounds.

Bass

Adjust to increase or decrease lower-pitched sounds.

Volume

Adjust the volume.

Audio out (Line out)

Adjust to increase or decrease line out output level.

Maximum volume

Adjust your own limitation for the maximum volume setting. This stops the volume at the sound level you set.

Minimum volume

Adjust your own limitation for the minimum volume setting.

Mute

Turn the mute function on/off.

Audio source

Select the audio input source. Audio output is not supported when there is no video signal.

- **{Analog}** - Audio from audio input. (Audio from OPS audio input when OPS is selected as source)
- **{Digital}** - Audio from video input source. (VGA and DVI are not supported)

Audio reset

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

Audio Out Sync

Line out volume sync with Volume.

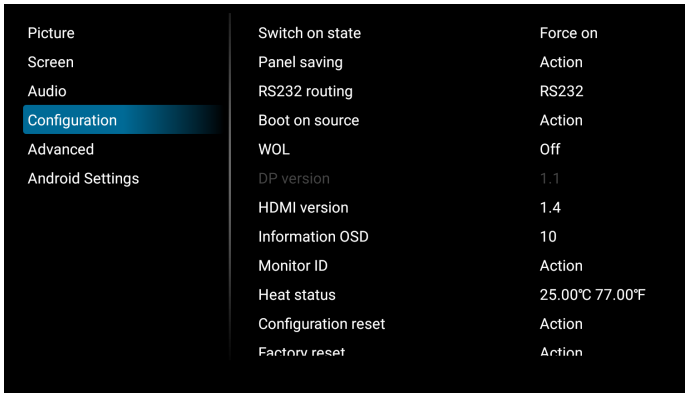
- **{On}** - Enable the function.
- **{Off}** - Disable the function and Audio Out Volume will be grayed out.

Speaker Setting

Enable/disable speaker.

NOTE: This function is available only when “Audio Out Sync” is on.

5.2.4. Configuration menu



Switch on state

Select the display status that will be applied when you connect the power cord next time.

- **{Power off}** - The display will remain off when the power cord is connected to a wall outlet.
- **{Forced on}** - The display will turn on when the power cord is connected to a wall outlet.
- **{Last status}** - The display will return to the previous power status (on/off/standby) when removing and replacing the power cord.

Panel saving

Choose to enable the panel saving functions and thus reduce the risk of image persistence or ghost imaging.

- **{Brightness}** - Select {On} and the image brightness will be reduced to 30%.
- **{Pixel shift}** - Select the time interval (**{Auto}** / **{10 ~ 900}** seconds) for the display to slightly expand the image size and shift the position of pixels in four directions (up, down, left, or right). Activating Pixel Shift will disable H Position, V Position and Zoom Mode in the screen menu.

NOTES:

- Auto is 60 seconds.
- Only supports external input source (HDMI, VGA, DP, OPS, DVI)

RS232 routing

Select the network control port.

Choose from: **{RS232}** / **{LAN->RS232}** / **{CardOPSRS232 (OPS model only)}** / **{STANDALONE}**.

Boot on source

Choose to select source when booting up.

Last Input : keep last input when booting up.

Input: select input source(follow S12 Input source) when booting up.

Playlist: select playlist index for Media player, Browser, PDF player.

0: No playlist. Same as switching source from OSD.

1~7: playlist number.

8: MediaPlayer autoplay.

No failover function, sysytem will keep source even the source has no signal input.

WoL

Choose to turn on or off the wake on LAN function.

Choose from : **{Off}** / **{On}**.

DP Version

Change DP version. 1.1 or 1.2.

HDMI Version

Change HDMI version. 1.4 or 2.0.

System rotation

Rotate the OSD menu. The options are 0/90/180/270 degree.

NOTE: Only supports rotation of Android UI. (Non-Android source is not supported.)

Information OSD

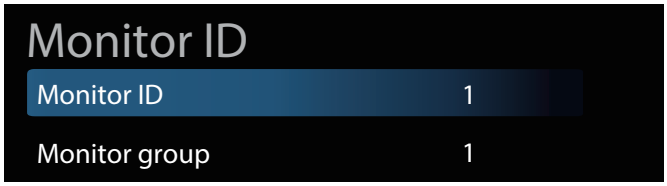
Set the period of time the information OSD display on the screen. The options are {Off, 1-60} seconds.

Monitor ID

Set the ID number for controlling the display via the RS232C connection.

Each display must have a unique ID number when multiple sets of the display are connected. Monitor ID number range is between 1 to 255.

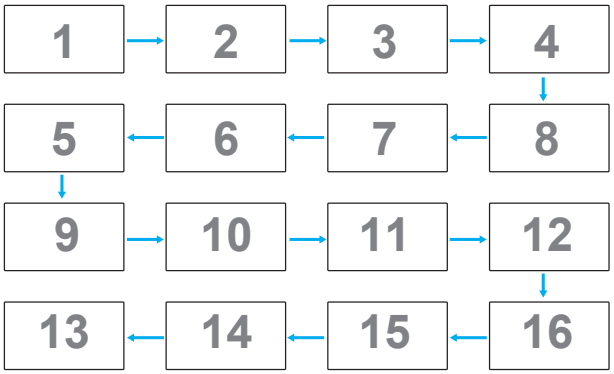
The option are: **{Monitor group}**.



- **{Monitor group}**

The option are: **{Off}** / **{1-254}**

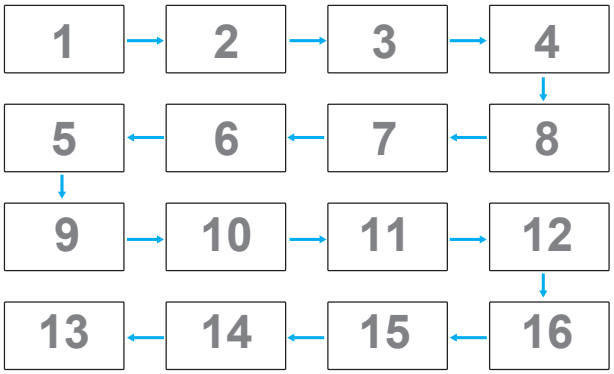
- **{Off}** – **{Monitor group}** are not supported.
- **{1-254}** – **{Monitor group}** are supported. The default setting is 1.



Heat status

This function allows you to check the thermal status and fan speed of the display.

	63°C <	63°C	76°C	78°C
FAN	X	V	V	V
Warning MSG	X	X	V	X
PD Power Off	X	X	X	V



Configuration reset

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

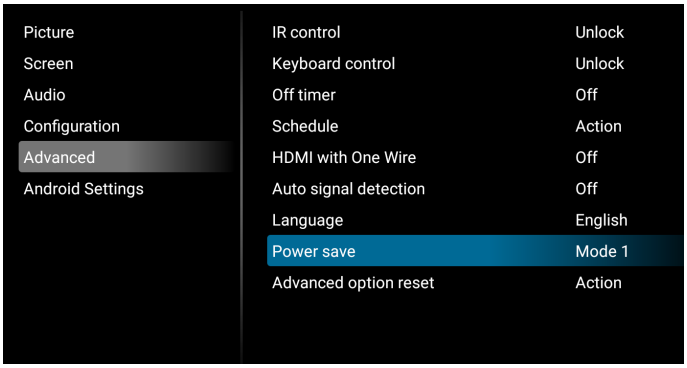
Factory reset

Reset all settings in **{Picture}**, **{Screen}**, **{Audio}**, **{Configuration1}**, **{Configuration2}**, and **{Advanced option}** to the factory preset values.

Press **[◄]** or **[►]** button to select **[Reset]**, and then press **[RESET]** button to do the reset.

System will be in media player mode after factory reset.

5.2.5. Advanced menu



IR control

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

- **{Unlock}** - All displays can be operated normally by the remote control unit.
- **{Primary}** - Designate this display as the primary display for remote control operation. Only this display can be operated by the remote control. (In primary mode, IR key will always be processed regardless of the monitor ID/ group settings.)
- **{Secondary}** - Designate this display as the secondary display. This display can not be operated by the remote control, and will only receive the control signal from the primary display via RS232C connection.
- **{Lock All}** / **{Lock all but Volume}** / **{Lock all but Power}**/ **{Lock all except PWR & VOL}** - Lock the remote control function of this display. To unlock, press and hold the [Info] button on the remote control for more than 6 seconds. It will exit from OSD menu automatically after locking IR.

No warning message will be shown when IR control is locked.

Keyboard control

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

- **{Unlock}** - Enable the keyboard function.
- **{Lock All}** / **{Lock all but Volume}** / **{Lock all but Power}**/ **{Lock all except PWR & VOL}** - Disable the keyboard function depending on the option you selected.

NOTE: "Keyboard Control Lock Mode" This function completely disables the access to all Keyboard Control functions. To enable or disable the keyboard control lock, press both [VOL+] and [UP] buttons and hold down continuously for more than 3 (three) seconds.

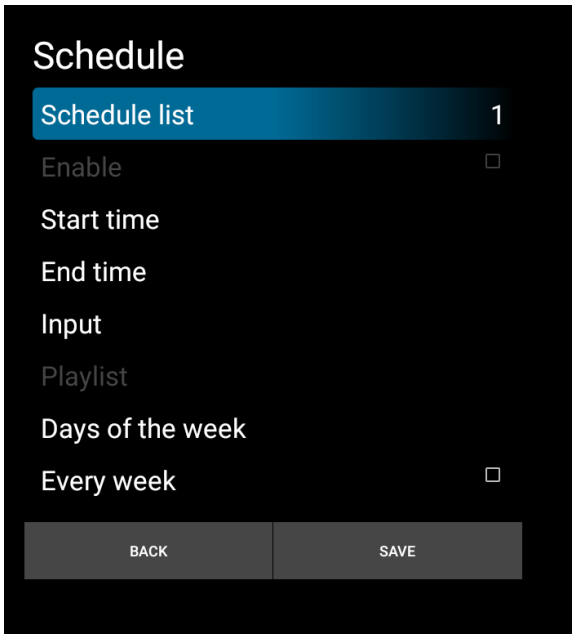
Off Timer

Set automatic power off time (in hours).

Schedule

1. Default start time and end time are 00:00.

2. Start time and End time must be from the same date of the schedule.



- Set lifecycle.

- Back:
  - Exit without saving changes.
- Save:
  - Save schedule data.

HDMI with One Wire

CEC control.

- **{Off}** - Disable CEC.(Default)
- **{On}** - Enable CEC.

The following features are supported:

- One Touch Play allows devices to switch the display to use it as the active source when playback starts.
- System Standby enables users to switch multiple devices to standby mode with the press of one button (HDMI with One Wire Power off is On).

Auto signal detection

This function allows the system to detect and display the available signal sources automatically.

Conditions for Auto Signal Detection:

1. Sub mode is "Off"

2. After showing Logo

3. Power state is not Power Off

The options are:

{Off}, **{All}**, **{Failover}**

{Off}: Disable Auto signal detection

{All}: OPS -> HDMI1 -> HDMI2 -> HDMI3 -> HDMI4 -> DisplayPort -> DVI-D ->USB-TypeC -> VGA -> Media Player -> SmartCMS -> Home

{Failover}:

- Failover 1: OPS(default)
- Failover 2: OPS(default)
- Faliover 3: OPS(default)
- Failover 4: OPS(default)
- Failover 5: OPS(default)
- Failover 6: OPS(default)
- Failover 7: OPS(default)
- Failover 8: OPS(default)
- Failover 9: OPS(default)
- Failover 10: OPS(default)
- Failover 11: OPS(default)
- Failover 12: OPS(default)

Language

Select the language used in the OSD menu.

The options are: English/Deutsch/ 简体中文 /Français/ Italiano/Español/Русский/Polski/Türkçe/ 繁體中文 / 日本語 /Português/ العربية/Danish/Swedish/Finnish/Norwegian/ Dutch.

Power Save

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

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

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

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

TCP off: the monitor can't be powered on via TCP (network).

TCP on: the monitor can be powered on via TCP (network).

WOL on: the monitor can be powered on via the network Wake On Lan feature.

Auto off: the monitor will switch off if there is no signal and will not switch on when the signal comes back.

Auto on/off: the monitor will switch off if there is no signal and will switch on when the signal comes back.

No auto on/off: the monitor don't switch off if there is no signal (power on/off signal detection is deactivated)

Power save modes

Mode 1: DC off -> Power off. LED: Red.

Power Save -> Power off, LED: Red

Mode 2: DC off -> Power off, LED: Red.

Power Save -> Power Saving. LED: Orange. Can be woken up.

Mode 3: DC off -> Back light off, LED: Red

Power Save -> Back light off, LED: Orange. Can be woken up.

Mode 4: DC off -> Back light off, LED: Red

Power Save -> Will not enter power save mode. show "no signal" only.

	RCU Power Button Off	No Signal	Android
Mode 1	DC OFF	DC OFF	board power off
Mode 2	DC OFF	when signal is back, system wake up	board power off
Mode 3	Backlight OFF	Backlight OFF	keep power on
Mode 4	Backlight OFF	Backlight ON, show no signal	keep power on

Following table is the action for Android board with different power mode.

DC off/on: press power button by RC

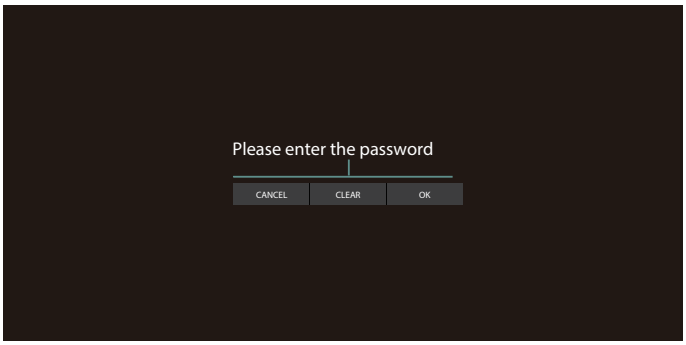
Power mode in OSD	Mode 1/2	Mode 3/4
DC off	shutdown	1. The current source APK(such as MediaPlayer, Broswer, PDF or SmartCMS) will be closed. 2. Android system will go to the default black launcher.
DC on	Boot up	1. Android system reboots

Advanced option reset

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

1. Press **[SET]** or **[►]** button to enter the submenu.
2. Press **[◄]** or **[►]** button to select **{Reset}** and press the **[SET]** button to restore settings to factory preset values.
3. Press the **[EXIT]** button or select **{Cancel}** and press the **[SET]** button to cancel and then return to the previous menu.

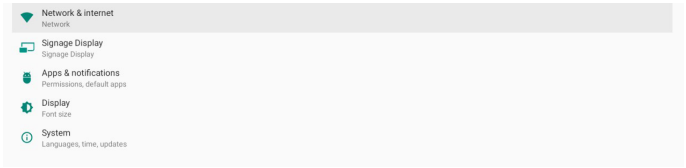
5.2.6. Android Settings



Pincode

Default password is 1234.

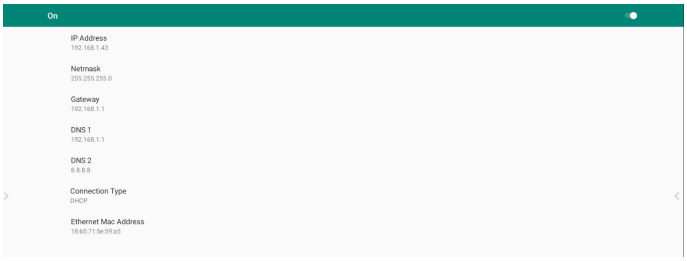
Settings



5.2.6.1. Network & Internet

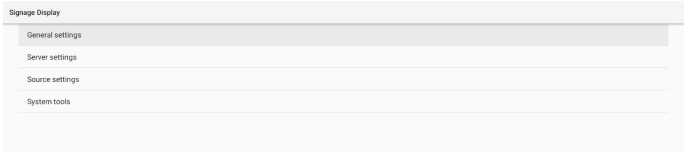
Ethernet

Click the button to turn on / off the wired network, and switch connection type to DHCP / static IP.



5.2.6.2. Signage Display

Settings -> Signage Display, to setup most features of signage display. See below for more detailed information about Signage Display settings.



5.2.6.2.1. General Settings

Settings -> Signage Display -> General Settings
Set up Signage Display name, User logo and Screenshot.

Signage display name
Settings -> Signage Display -> General Settings -> Signage Display Name
Set up Signage Display name, the default name is Ethernet MAC address with prefix “PD_”. For example, “PD_000b12223398”. The maximum length of name is 36 characters in UTF8 format. Click to rename it.

5.2.6.2.2. Server Settings

Settings -> Signage Display -> Server Settings

Remote Control
Settings -> Signage Display -> Server Settings -> Remote Control

Click the checkbox “Enable” to enable or disable the remote control client service. The default setting is “Enabled”. To use the remote control feature, the device must be bound with the remote control server.
In the entry field of “Server”, input the URL address with the prefix of “https://”. If the device is not bound with the remote control server, please enter the PIN code provided by the server.

5.2.6.2.3. Source Settings

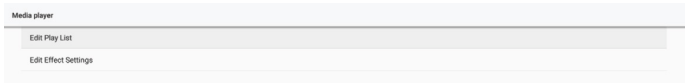
Settings -> Signage Display -> Source Settings

User can configure source APK’s detailed options.

Media Player

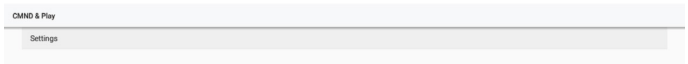
Settings -> Signage Display -> Source Settings -> Media Player

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



CMND & Play

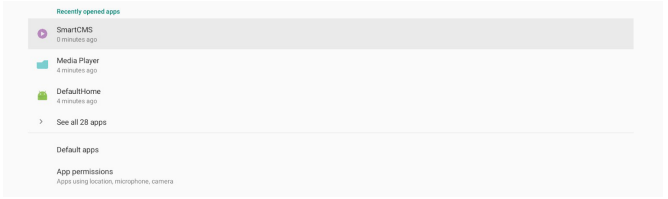
Settings -> Signage Display -> Source Settings -> CMND & Play



5.2.6.2.4. System tools

- Clear Storage
- Import & Export
- Clone
- Admin Password
- Swipe Up

5.2.6.3. Apps & notifications

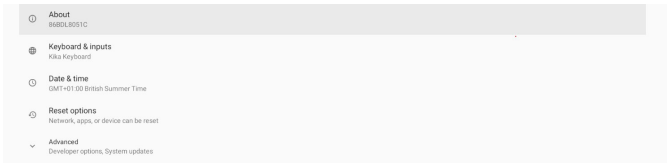


5.2.6.4. Display

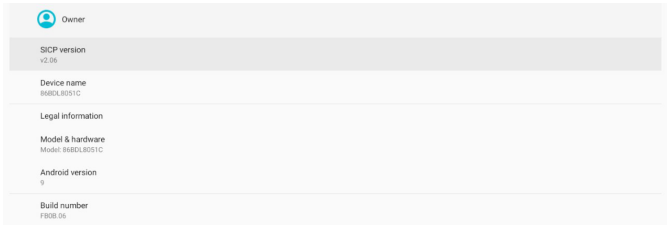
Font adjustment

5.2.6.5. System

System settings, including keyboard & inputs, date & time, reset and advanced settings.



5.2.6.5.1. About



5.2.6.5.2. Keyboard & inputs

Keyboard and inputs setting.

5.2.6.5.3. Date & time

Date/Time/Timezone setting.

5.2.6.5.4. Reset options

Reset default setting

5.2.6.5.5. Advanced

- Developer options
- System updates

6. IMD Suite

6.1. IMD Suite Windows User

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

FCC Warning

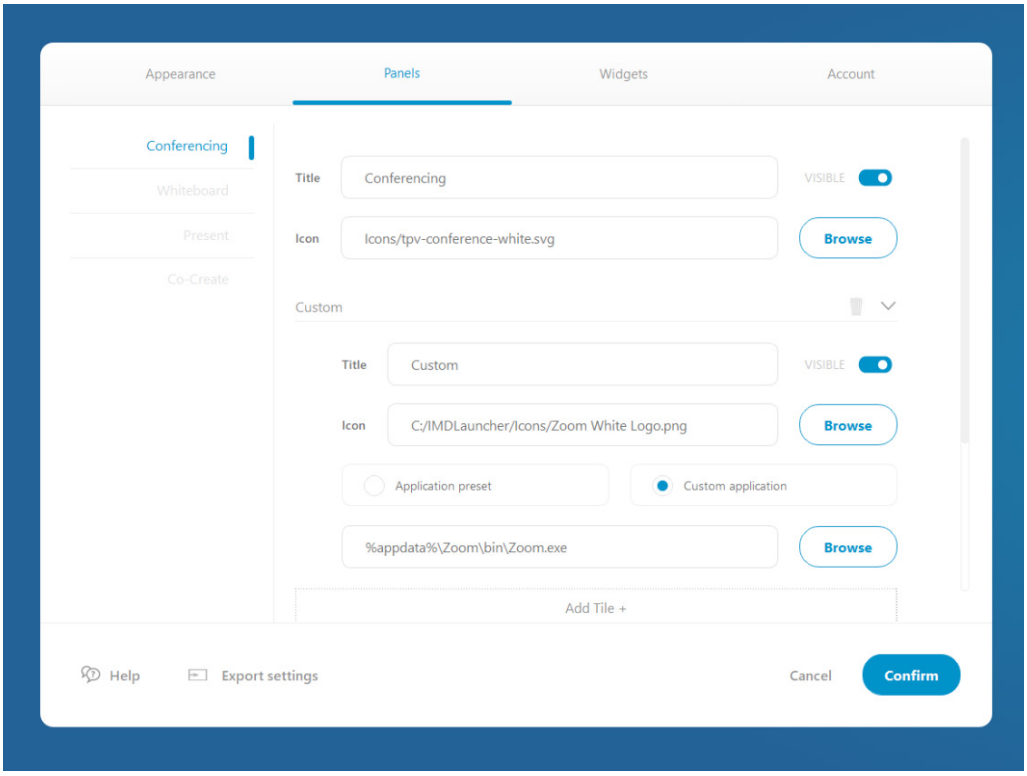
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

6.2. Conferencing

The conferencing button allows you to instantly start your favourite conferencing application such as Zoom, which is pre-installed for video conferencing. You can also configure other applications like Skype, Skype for business, Microsoft Teams, Google Hangouts etc. Configure your conference application and start your meeting at the push of a button.

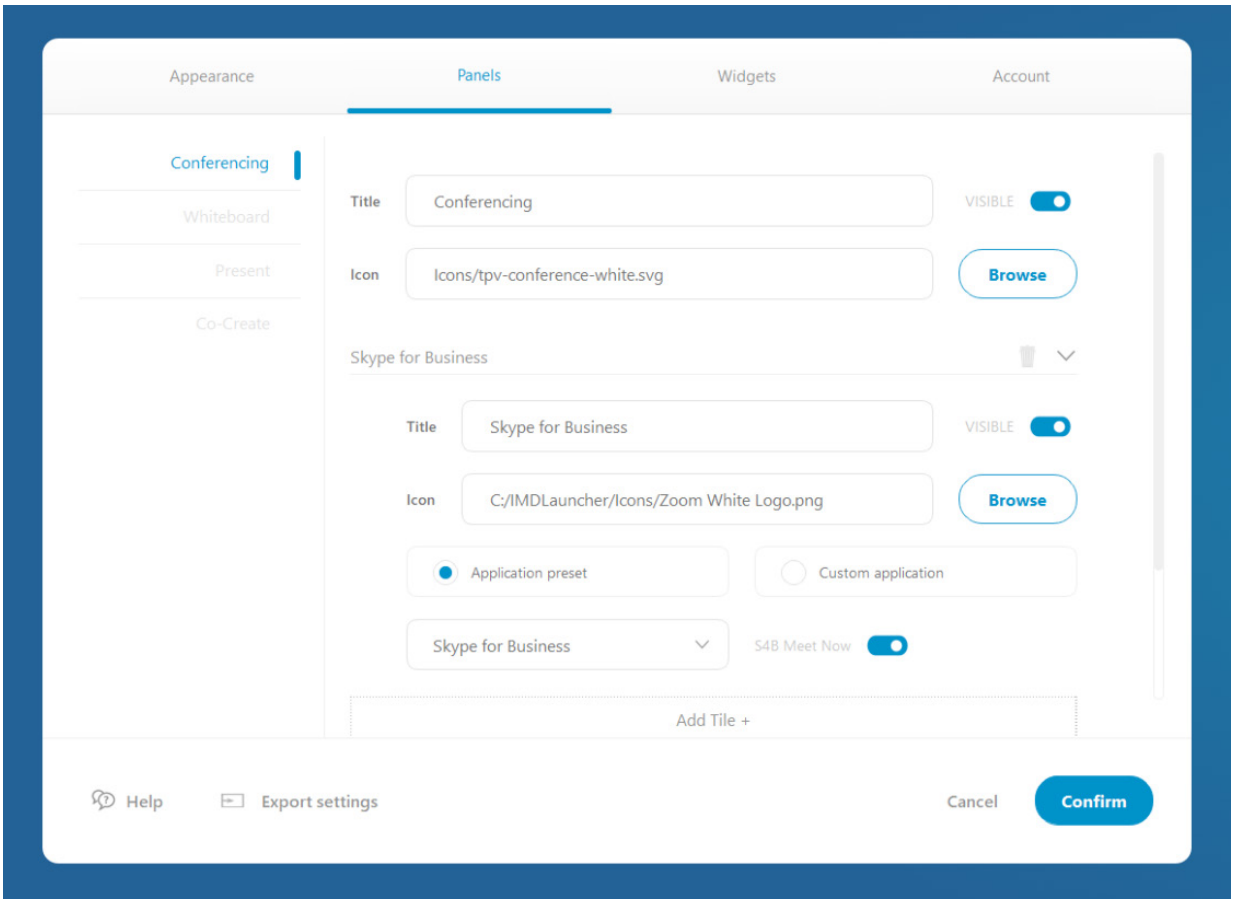
“Conferencing” button configurations

To enable users to start a conference when they click the button, open the launcher settings menu and follow the steps below: Clik on the settings wheel on the home screen and navigate to the tab “panels”. Navigate in the left menu to the “conference” tab. There you can choose to use the pre-installed Zoom application or add another tool. If you would like to use an other conferencing applications, then select the option “custom application” - choose an app - and confirm your settings. Now you can start your conference meeting with your chosen app at the click of a button.



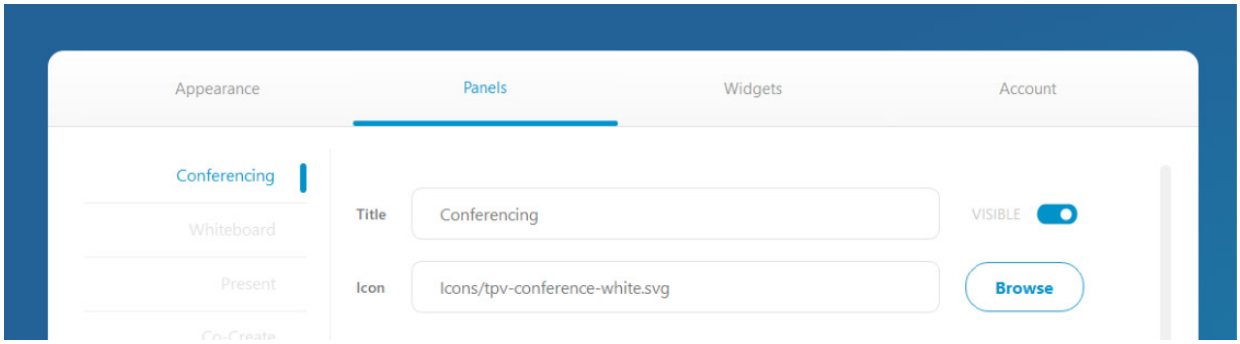
NOTE: Windows 10 UWP apps cannot be found as an *.exe on the file system. If you want to link this kind of app (eg. Skype from Microsoft Store) you need to create a shortcut (*.lnk) file first and then link the shortcut.

Once you have completed the setup of the Conferencing button, you can access it from the dashboard. When no conferencing applications are configured and you click the conference button, the settings will open so you can set your conference button. In case Skype for Business is configured as Conferencing application, a “meet now” option will appear in your calender on the dashboard, if enabled in your settings and if the meeting is scheduled with Zoom or Skype for Business. When the “meet now” button will be clicked on in the dashboard, your Skype for Business window will open and your meeting will start directly. This “meet now” feature is only available with Skype for Business.



Conferencing application icon and label

Application’s title and icon will be displayed by the system on the home screen. Both can be edited in the settings menu by simply typing the desired name and browse the icon you would like to display on the home screen.



NOTE: Some conferencing applications (eg. Zoom) minimize to the system tray notification area when closed and might show unexpected behaviour when pressing the conference button afterwards (eg. new instance of the application is opened every time). For best results always choose the option ‘do not minimize to notification area’, if available in the zoom settings menu.

Dual monitor extended desktop feature when using conferencing tool

If a second monitor is connected to the computer, the applications attached to the conferencing button will always open on the second monitor, while the launcher will remain open on the main monitor.

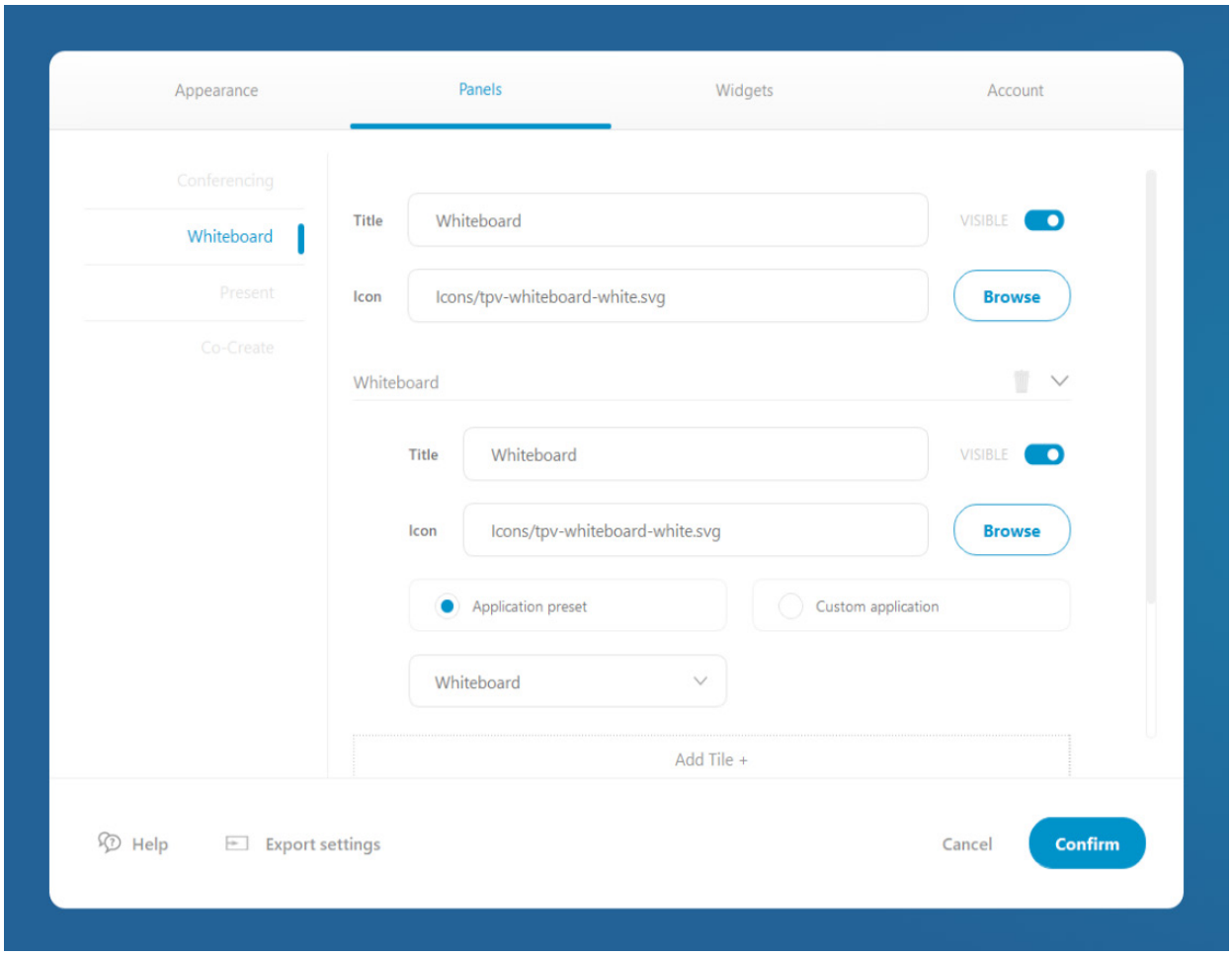
6.3. Whiteboard

The whiteboard button enables users to take notes on a blank canvas (whiteboard) in just one click.

When a user clicks the “Whiteboard” button, the application MS Whiteboard will open.

Whiteboard button configurations

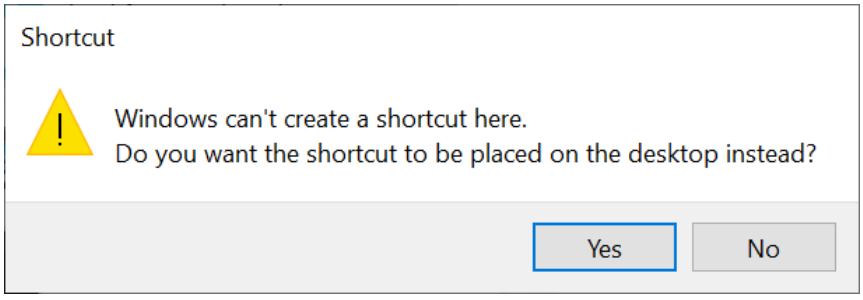
The whiteboard button can be configured in the settings where either MS Whiteboard. Also here you can select “custom application” if you would like to choose a customized whiteboard application instead of MS Whiteboard.



It is possible to use an UWP application to replace the default whiteboard application. To be able to do so, a link to the UWP application should be created first. That link can then be used.

Following steps explain how to make a shortcut for an UWP app
(this might require elevated user permissions)

- From the start button execute run
- In the dialog enter “shell:AppsFolder”, click OK
- The application window will open. Right click the application and select “create shortcut”



- You will be prompted to place the link on the desktop, click yes to continue

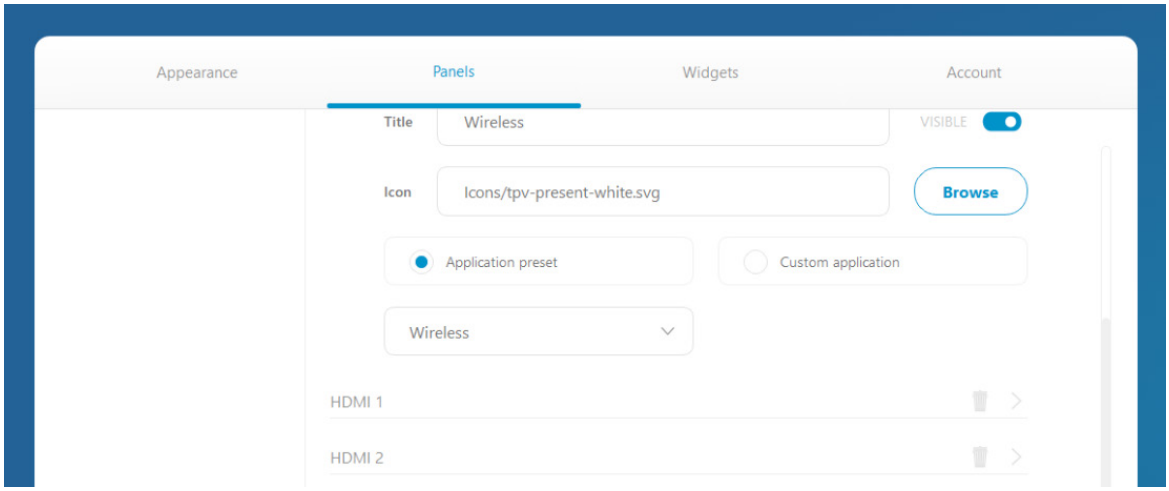
6.4. Present

The Present button lets users share content wirelessly from their device.

Start sharing your screen at the push of a button by clicking on ‘present’. The screen mirroring application “IMD-Sync” is pre-installed on the IMD Suite OPS.
Please refer to our ‘Present’ product page to learn how to use the screen mirroring application.

“Present” button configurations

The Present button can be configured in the launcher settings as shown below:



Wireless

Activate the present application by clicking the ‘present’ button on your launcher. Follow the on screen operation instructions and start screen sharing in 3 easy steps. If you would like to get some more information about our wireless presenting app, than please refer to the manual of IMD-Sync on it’s product page or watch our ‘how-to’ video on Youtube.

HDMI

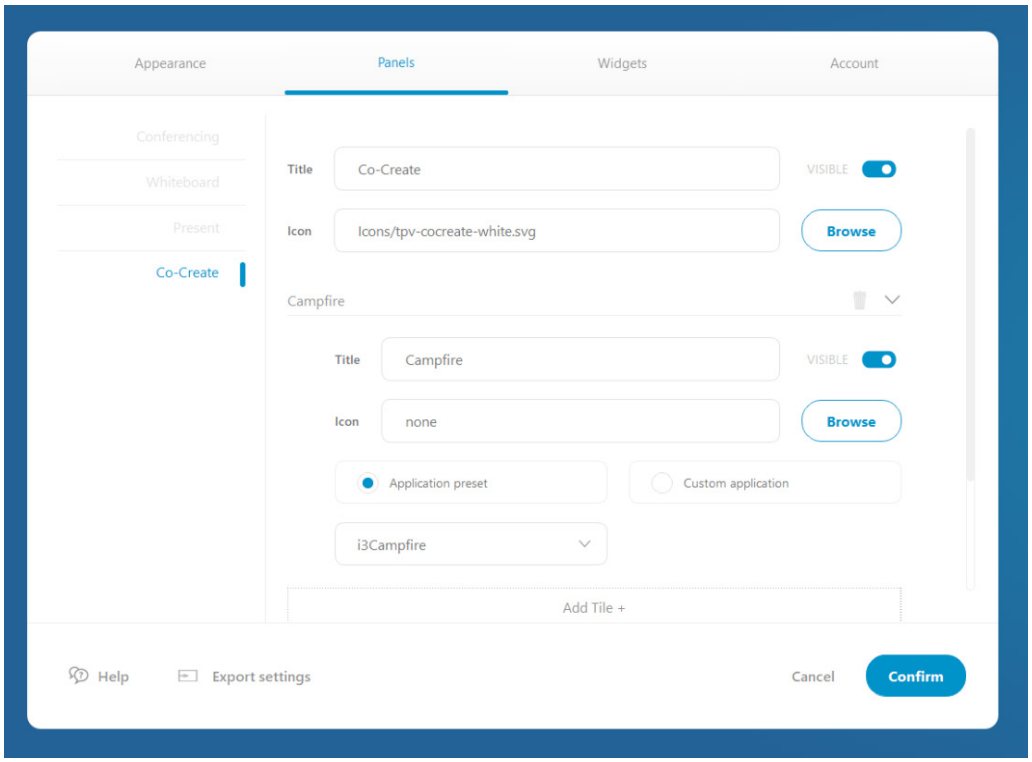
Of course you can also connect your laptop via HDMI cable (or HDMI with USB) - this enables duplicate screen.

6.5. Co-Create

Co-create allows users to instantly link with other interactive whiteboards and PCs for the ultimate real-time collaboration experience using the MS Teams application or any other application of choice.

“Co-Create” button configurations

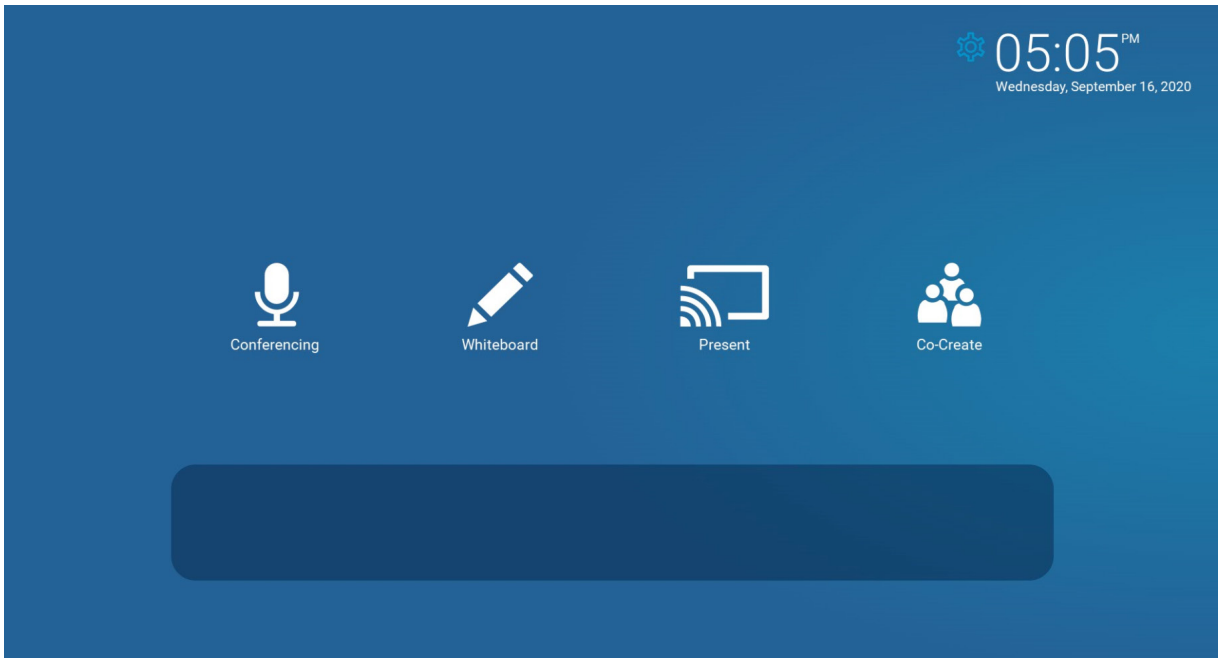
The Co-create button can be configured in the settings where either Teams or custom application can be selected.



General note: It is not possible to pass extra command line parameters to an application from within the admin panel. This can be achieved by creating a Windows shortcut and adding the parameters in the Windows shortcut. This shortcut can then be used in Launcher.

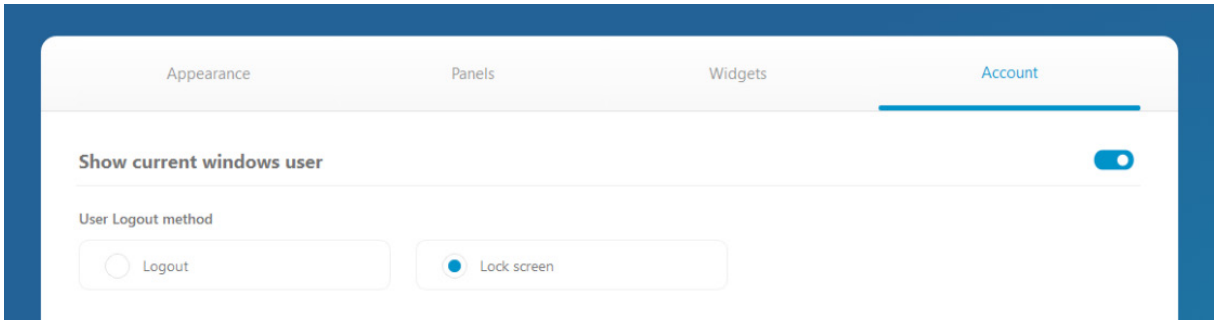
6.6. Windows logout/lock

This feature displays the logged in Windows user's details (name and image) on the home screen.
The design and position of this feature depends on the type of layout you are using.



Windows User Configuration

Open the settings to adjust Windows user display.



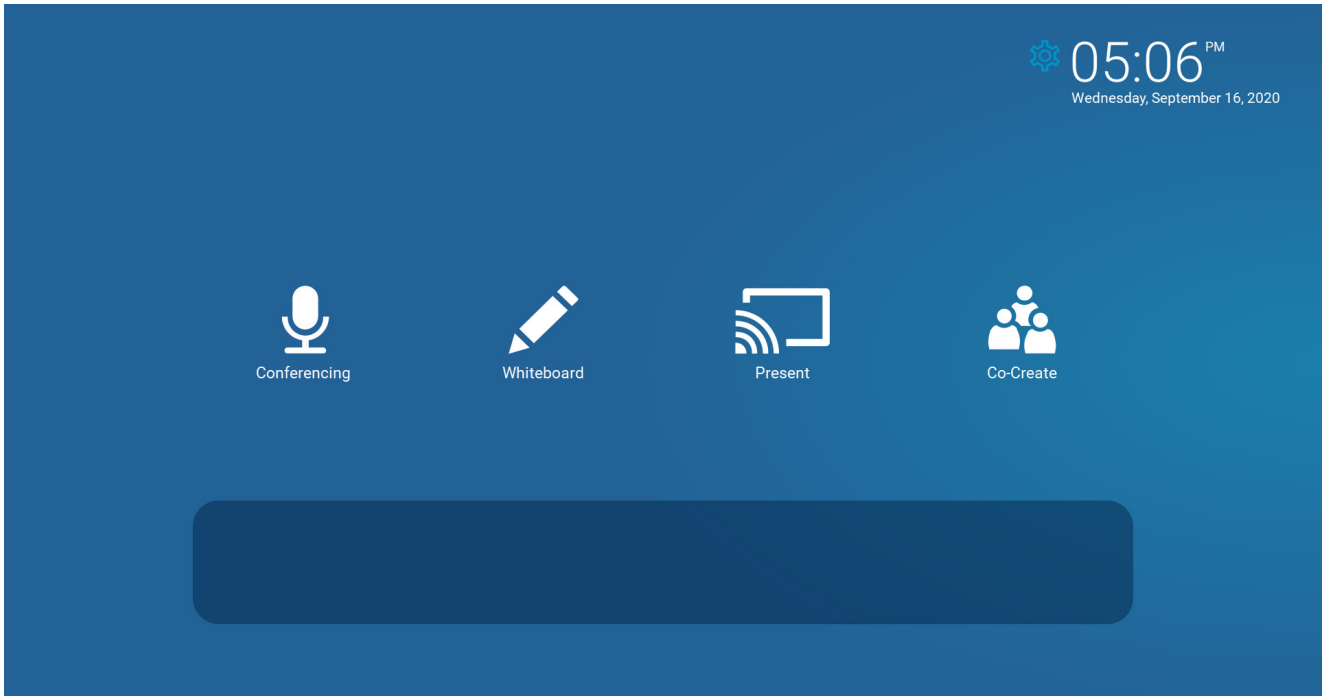
The exit button can be configured to either log out of the Windows account or lock the Windows desktop. This feature can also be toggled on/off from the dashboard.

- Press 'log out' to log out of the Windows account.
- Press 'lock screen' to lock the Windows desktop.

Slide the orange toggle to turn this feature on or off.

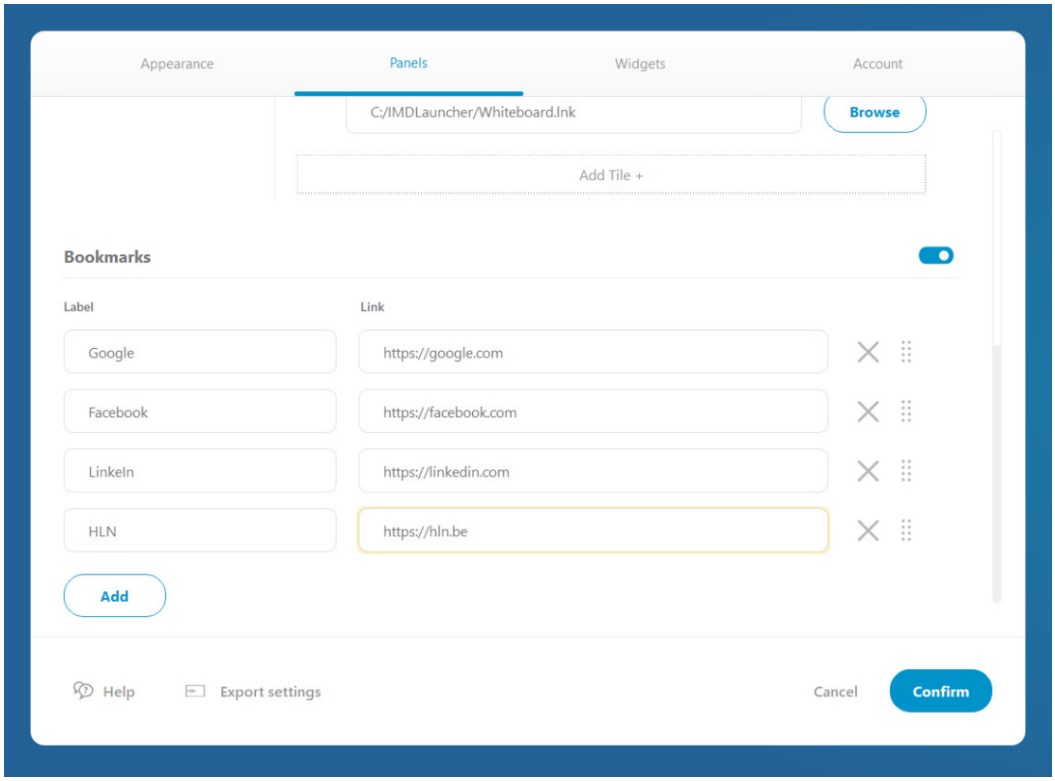
6.7. Bookmarks

Add an unlimited number of bookmarks for instant access. Bookmarks can be files, folders or web links and can be configured using the settings.
NOTE: Web links will be opened with your default browser.



Configure bookmarks on the dashboard

1. Click “+ Add Bookmark”
2. Choose bookmark type (file, folder or URL). Names can be edited.
3. Drag and drop the bookmarks to change the order.
4. Click save.



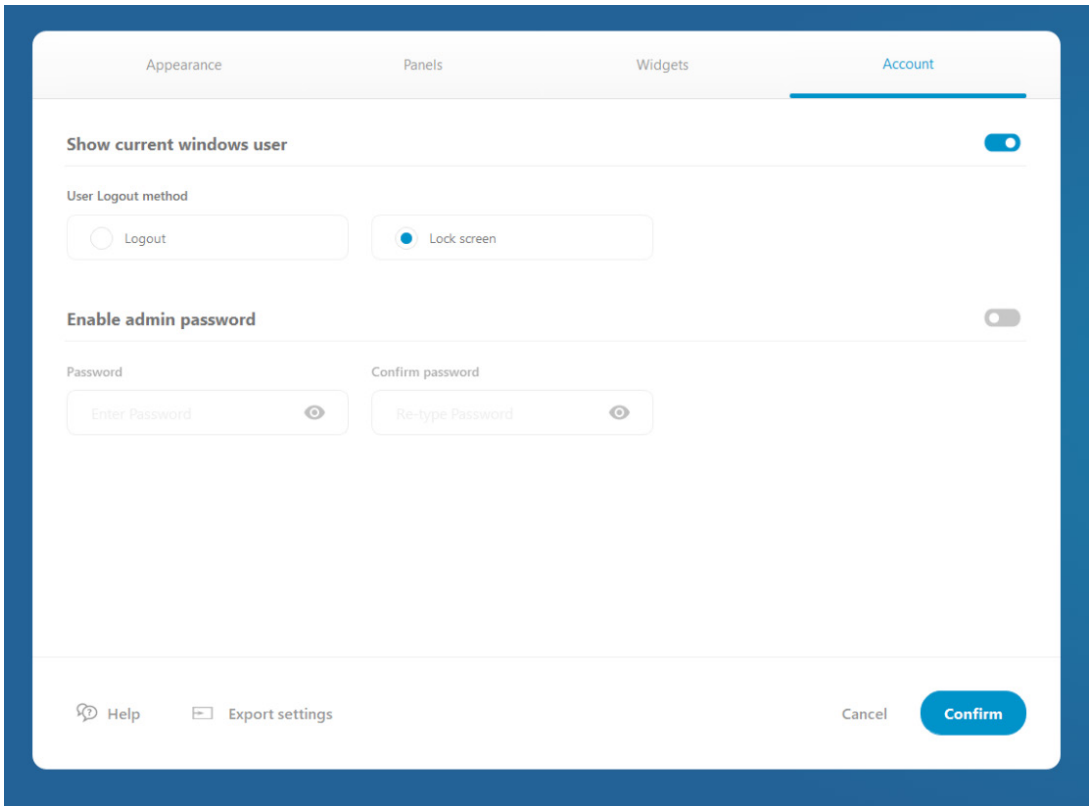
Slide the orange toggle to turn on/off bookmarks from dashboard.

6.8. Floating Home Button

The IMD Launcher contains a floating Home button which always floats on top to your applications. Pushing this button will always return you to the Launcher/home screen.
This floating home button can be dragged to any location on the screen to avoid that it conflicts with other content on the display.

Floating button settings

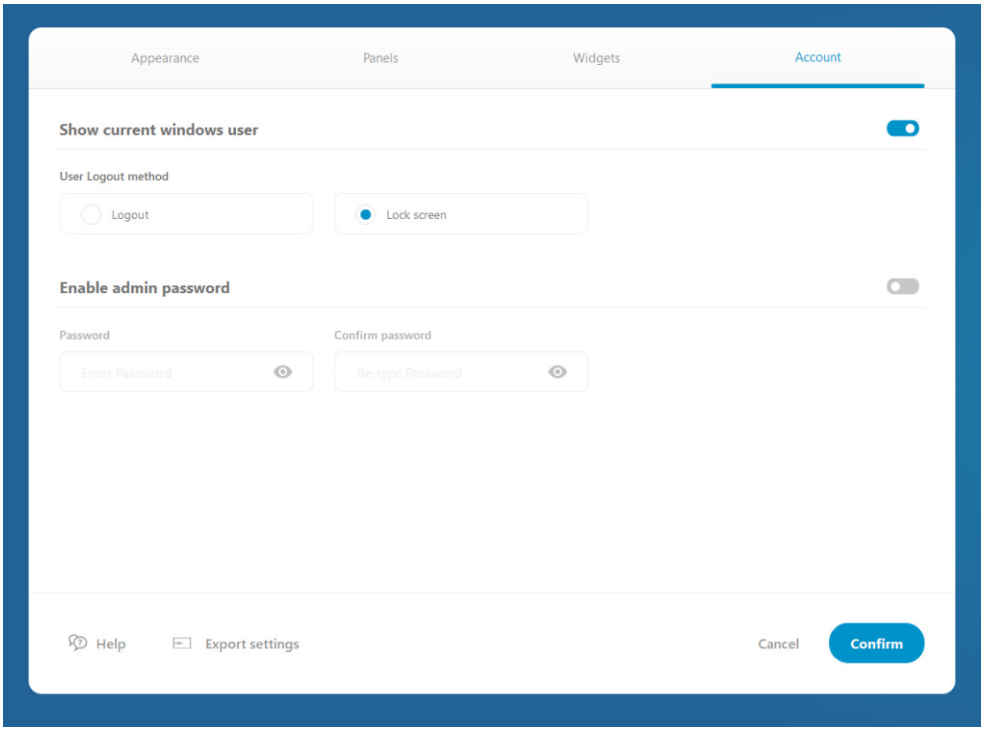
The setttings menu allows you to configure this floating button. The main characteristic of this button is that you can also lock it on the central bottom of the screen. This lock can be applied through the settting menu.



6.9. Customize your launcher

Your settings security

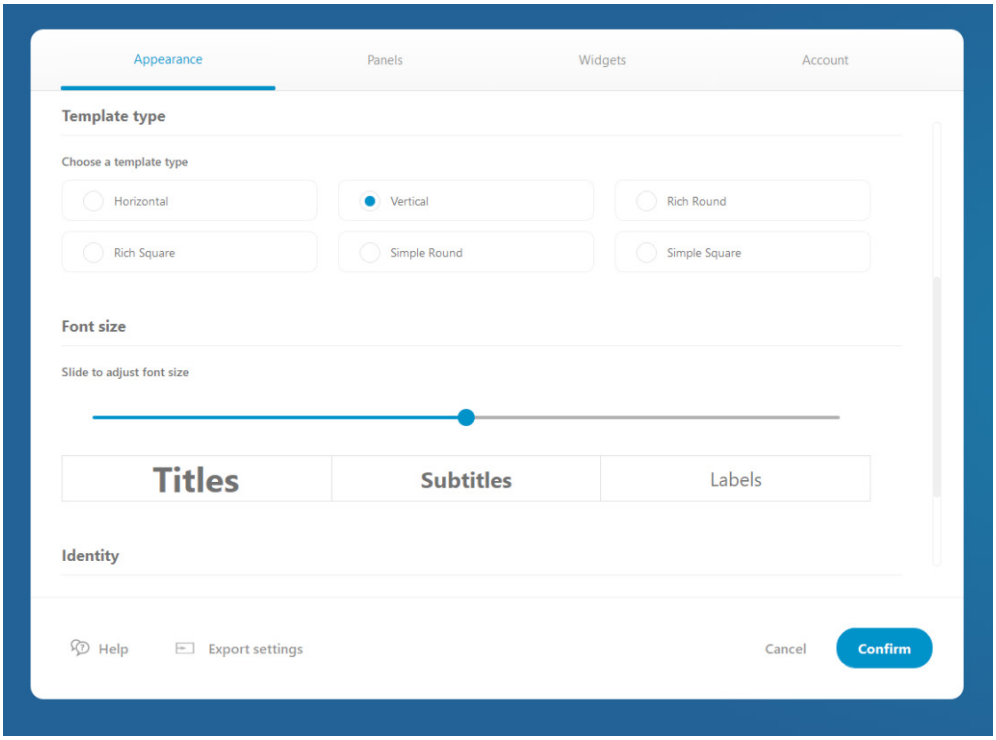
If you don’t want users to be able to change the look and feel of your launcher, then set an admin password when opening the settings.



After setting your password, a pop up window will appear when a user will open the settings.
In case you forgot your password, click the ‘reset password’ in the pop up window and type the default password (3333). A notification will be displayed explaining that your password was changed successfully. NOTE: The login password is now the default password. To change the password, just open your settings, go to ‘account’ and set your password again.

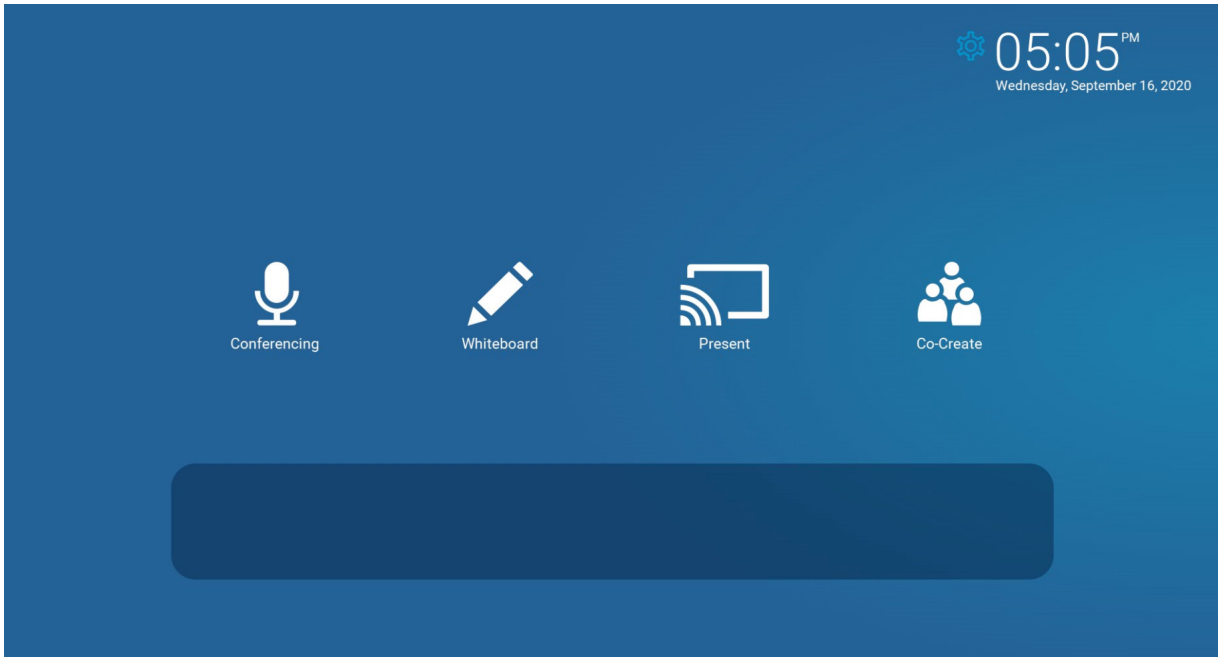
Pre-defined interface layouts

There are different types of dashboard layouts available: rich or simple, round or square and horizontal or vertical (dark/light). And if this is not enough, than you can also manage numerous other settings as wish.



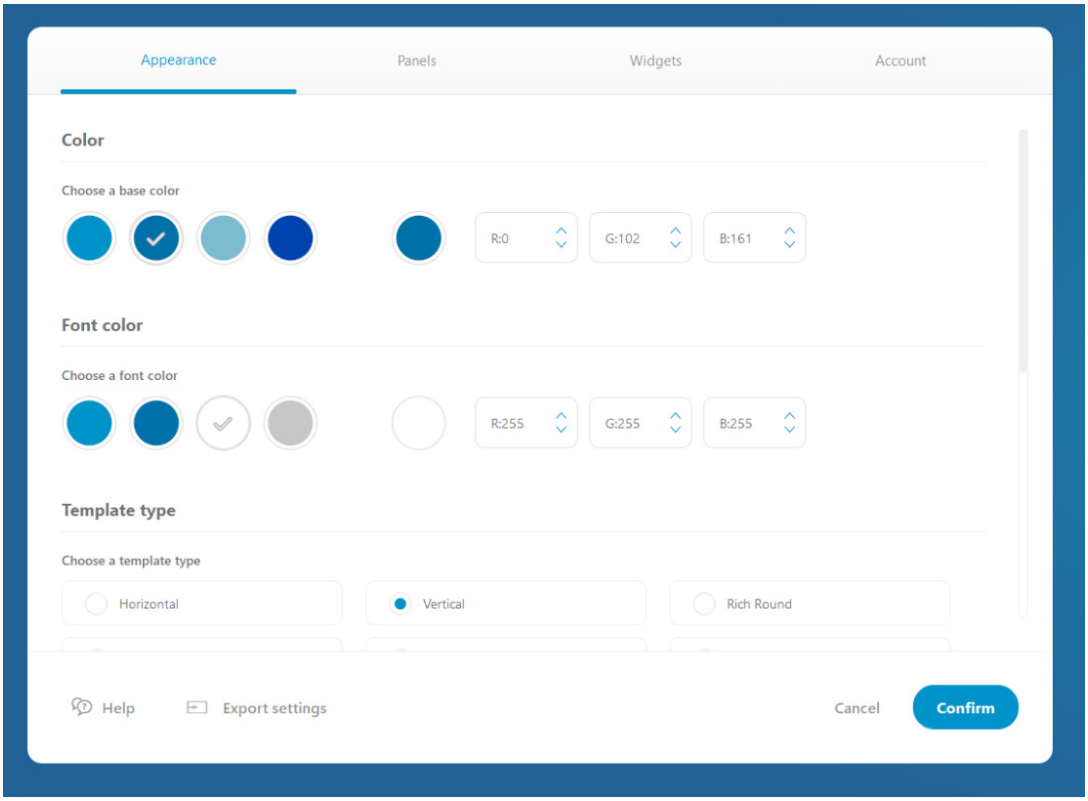
Vertical or horizontal dark/light

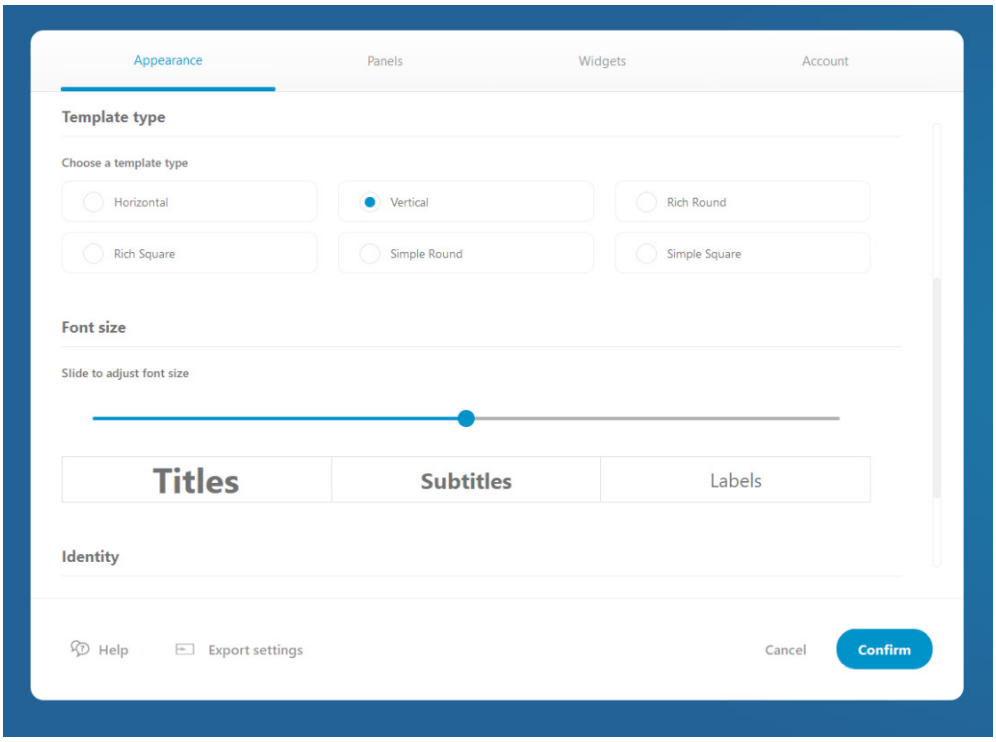
Choose to sort your buttons horizontal or vertical and choose if you would like to have dark or ligth buttons. When you choose for 'vertical', the buttons and columns will be sorted vertically. When choosing for the horizontal layout, then of course the buttons are sorted horizontally. The only choice you have left to make is choosing between dark (dark grey) and light (light grey) buttons.



Rich or simple and round or square

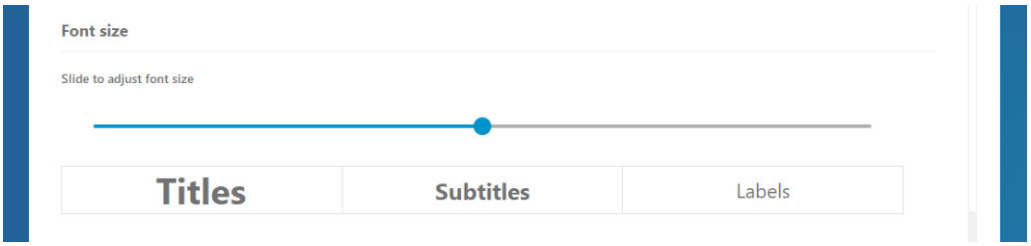
Another type of a pre-configured templates is the choice between round and square buttons and the options to have the buttons rich or simple. Besides, you can also choose the colors of the buttons and much more. And if that's not enough, even choose the style of your titles, subtitles and labels. And set your background and logo as you prefer to.
All these options have been integrated to help you make your home screen as personalized as possible. And most important of all, set your home screen as you like at the push of a button. Enjoy!





Font size

The font size is automatically adjusted based on your screen resolution, but it can also be adjusted manually in the settings. Just drag the slider to change the font size, as see the live preview of changes. Then click “confirm”.

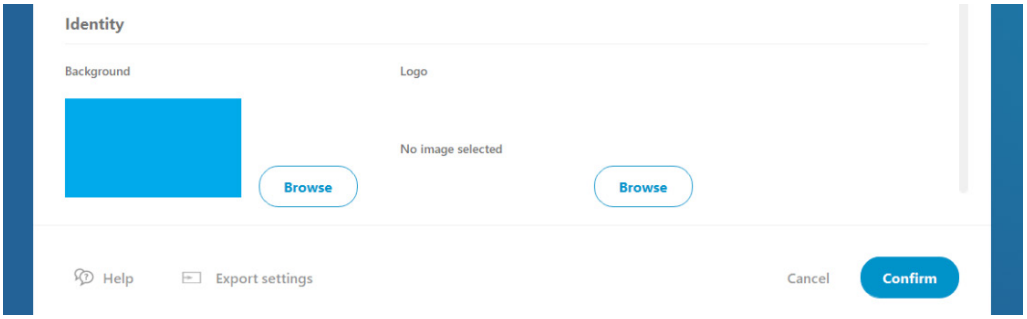


Background image/video

By default, a sample image is displayed on the Launcher dashboard. The image can be found inside the Launcher “Media” folder. Please do not change or delete “bkg_img_default.jpg” as it is part of the installation package.

To change the background, go to the launcher settings “Identity” section and click “Browse” next to background. Select the image from your PC, appropriate to your screen resolution, and click “Save”. The background image size should be in line with your screen resolution. Supported resolutions are described in “System requirements” section.

Acceptable images formats: PNG/JPG/BMP



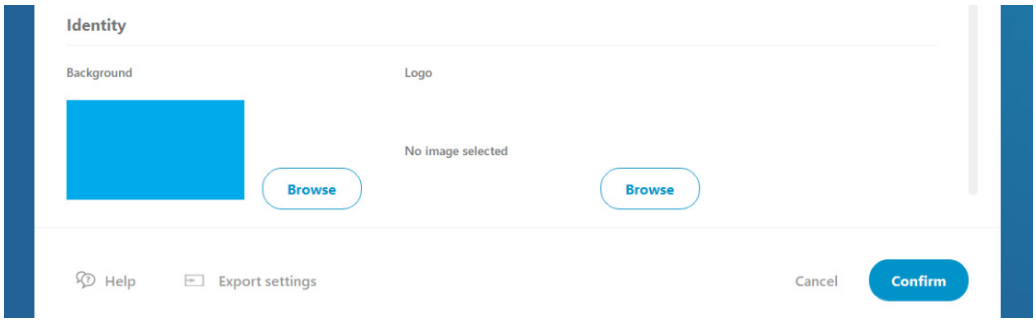
A video background can be used as well, however, a codec pack such as K-Lite (https://www.codecguide.com/download_kl.htm) is required on your machine.

Acceptable videos formats: MP4. The background video is scaled to the screen resolution (up or down) without keeping the original proportions. For the best results upload a video which is proportional in size to the screen resolution, so the video won't de distorted by unsuitable scaling.

NOTE: running 4K video as a background may affect the IMD Suite OPS performance.

Custom logo image

The logo can also be set in each layout.
By default, no logo is displayed. To change the logo, go to the settings "Identity" section and click "Browse" next logo. Select the image from your PC, appropriate to your screen resolution, and click "Save".



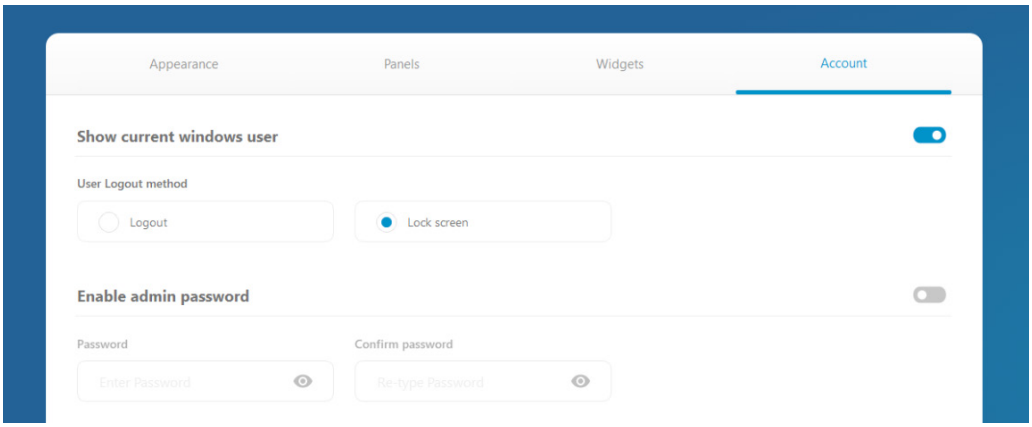
For best results we recommend uploading a logo matching the resolutions below, which will result in your logo being displayed without any clipping or scaling.

UHD: 1728 x 216 px
FHD: 864 x 120 px

Acceptable image formats: PNG/SVG
Horizontal logos will look better because the logo occupies a rectangular area on the dashboard. You do not need to match the exact size; however, your logo will be scaled up or down with respect for its proportions.

6.10. Password

Password Configurations



To change the password for the settings, open the settings, navigate to the tab ‘account’ and go to the section ‘enable admin password’ to set your password.

Slide the orange toggle to turn the password lock on or off.

Reset password

If an incorrect password is entered, an error message will appear – “Sorry, this password is incorrect”.
Click ‘reset password’ button to start password reset and type the default ‘Master’ password (3333). After resetting the admin password, the ‘Master’ password will automatically be set as new admin password. You can change your admin password again via your settings.

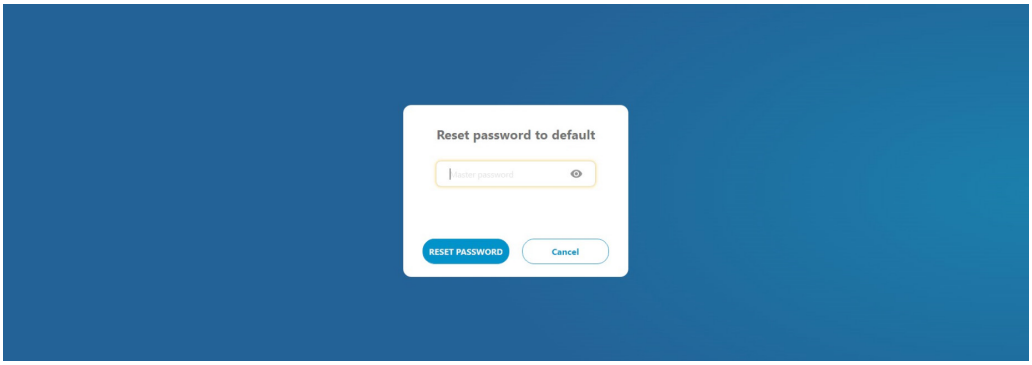


Figure 21 Reset password

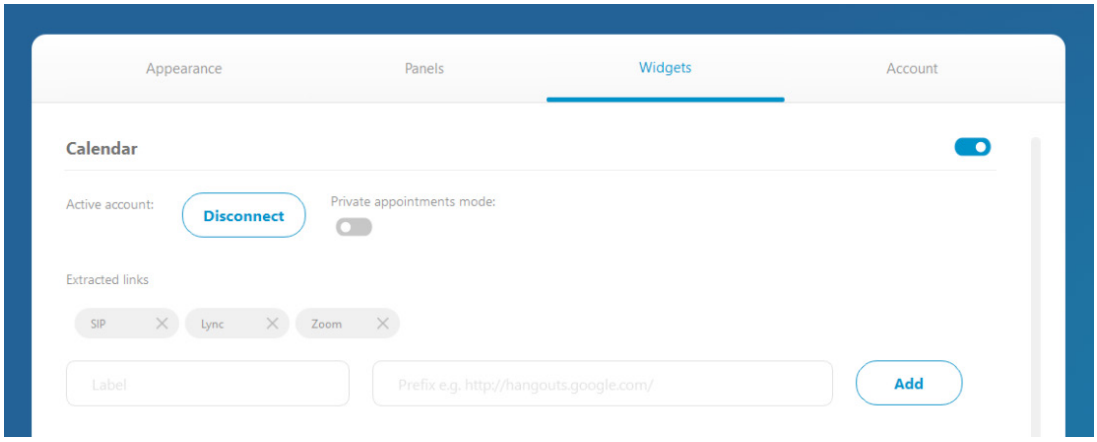
6.11. Calendar

This feature lets users connect their Office 365 mail account to display current meetings/calendar on the Launcher dashboard.

Configure Calendar Widget

Login to the Admin panel, nagivate to the ‘widgets’ tab and go to the Calendar section.

Enter the credentials of the Office 365 mail account you would like to connect to the launcher. Press connect and save all changes.



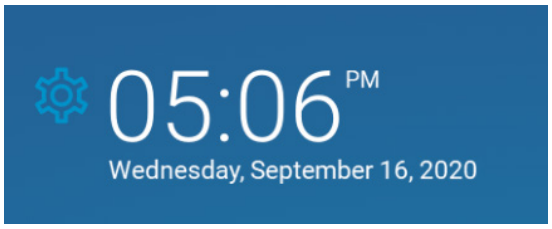
On the dashboard the scheduled meetings for the day will be displayed (meeting title, time and body). If the body of the meeting contains a SIP link, e.g. the link to join a Skype or Zoom meeting, the meeting details be accessible by clicking on the title of the meeting (in case of round layout) or on the “join meeting” button (in case of square layout and only for Skype for Business). In addition to Skype or Zoom links, it is also possible to add custom links in the settings which also will be extracted from a meeting body.

There is also “Manual update” button to update the calendar data immediately and not wait for the next automatic synchronization.

By default, calendar meetings are public, except if user marks it as private when creating a meeting in outlook calendar. If private mode is enabled in the settings, all meetings will have no title and body but instead only meeting host will be displayed.

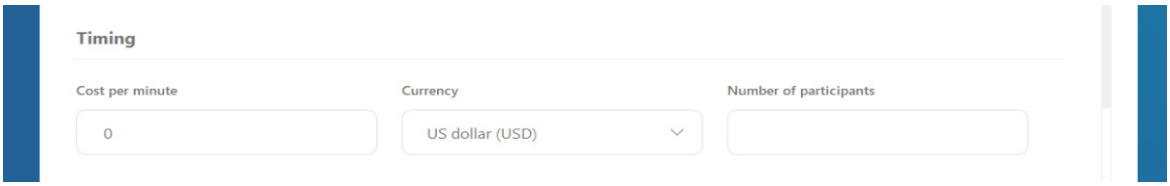
6.12. Clock

The launcher displays the current time and date in AM/PM or 24h format as set in your windows computer system settings (not the settings)



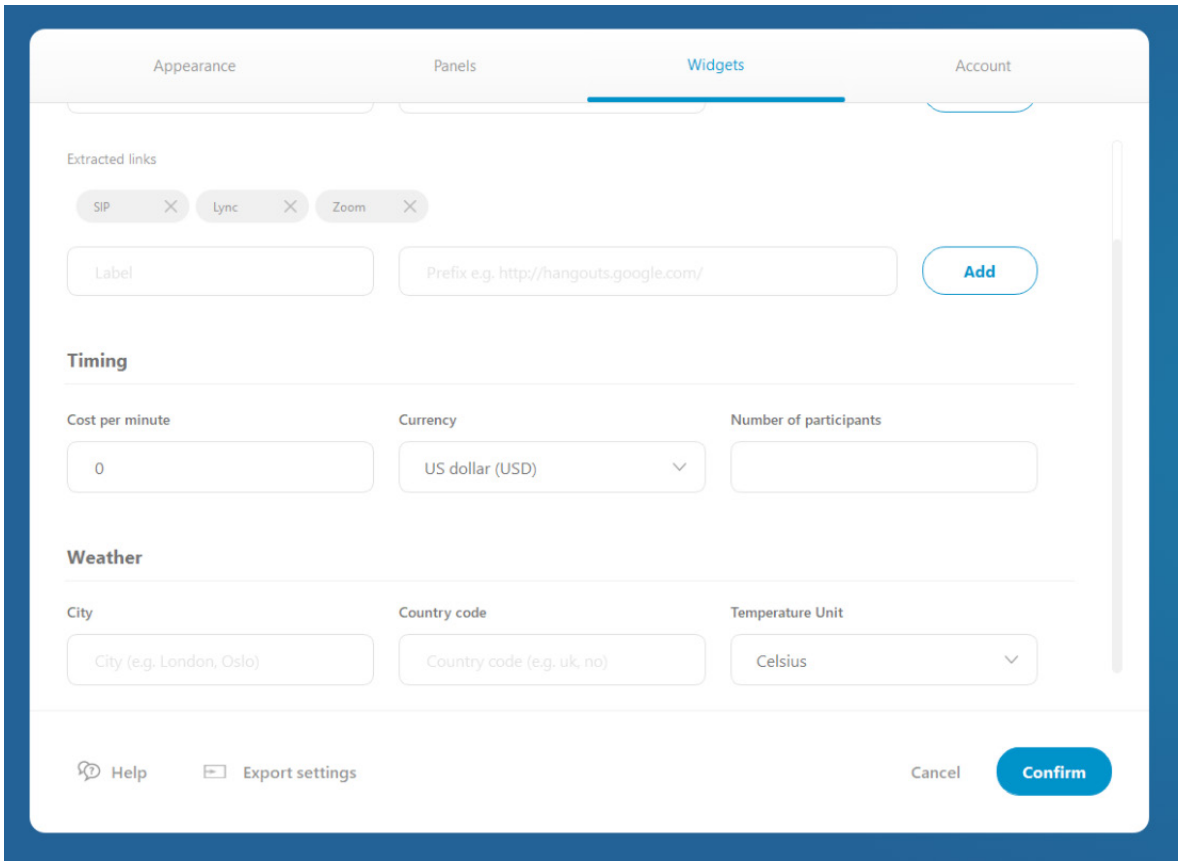
Clock

Before starting your meeting, set your timing! Because time is money.



Meeting cost

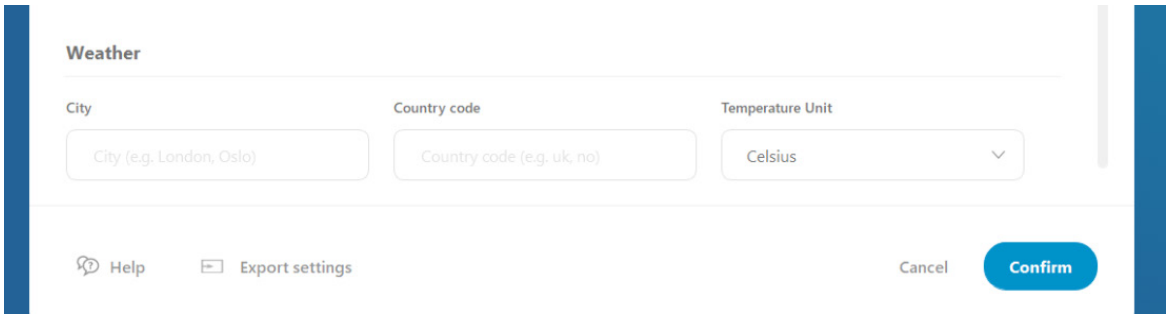
Displays the cost of the current meeting. The User can enter the cost per minute, as well as, setting the currency (USD, EUR and others) and choosing the number of participants in the meeting. The latter can only be set when there is an active meeting. We call it an active meeting when an user has scheduled a meeting in his Office 365 calender, then you can set the meeting cost during the time span that the meeting is scheduled.



Weather

The city, for which the weather will be displayed, should be entered by the user via the settings.
Country code (e.g. “fr”, “de”, “us”) is optional but it helps to avoid the issue with cities which have the same name in different countries.

Note: Internet connection is required for the weather function to work.



Interface Language

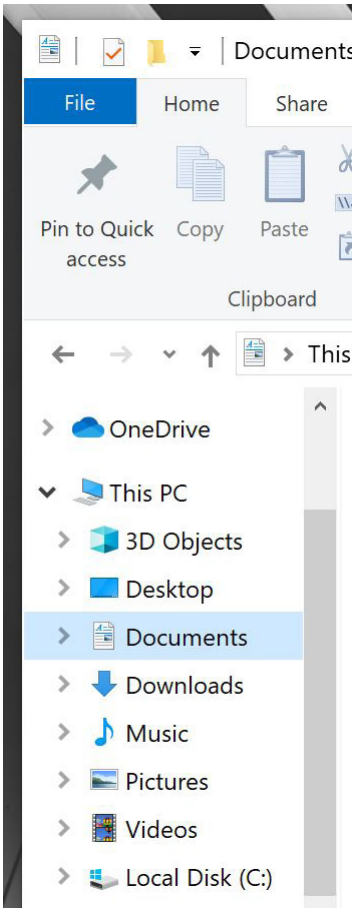
The language of the application is determined based on the System language. Date for the clock is also taken from the System.

For now, only English and Dutch are supported.

Export Launcher settings to other devices or profiles

Once preferences have been set and the appearance of the launcher finalised, export the settings by pressing the ‘Export Settings’ button in the settings.

Exporting these settings, allows you to import your customised settings. The export file is in the “Documents” folder on your local device.



Import the settings simply by double clicking on the file in the Launcher folder.

6.13. IMD Launcher updates

Updates will be detected automatically (if server connection is available). When an update is available:

A pop-up system notification will inform the user about the update. Click on the notification to be directed to the settings.
A description of the update will be provided in the settings menu. By clicking “update”, the update will be downloaded and installed.
After installation, the dashboard will open and there will be a notification if the installation was successful.

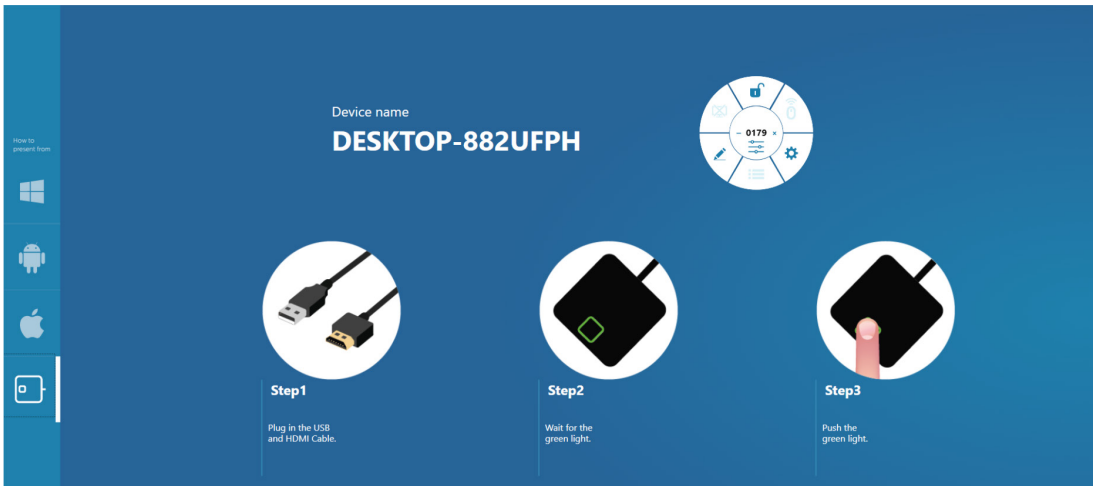
6.14. IMD Suite Configuration

System requirements:

The IMD Suite software is only available on a pre-installed Display.

7. IMD Sync

Activate the IMD R-Sync app



Wired pairing:

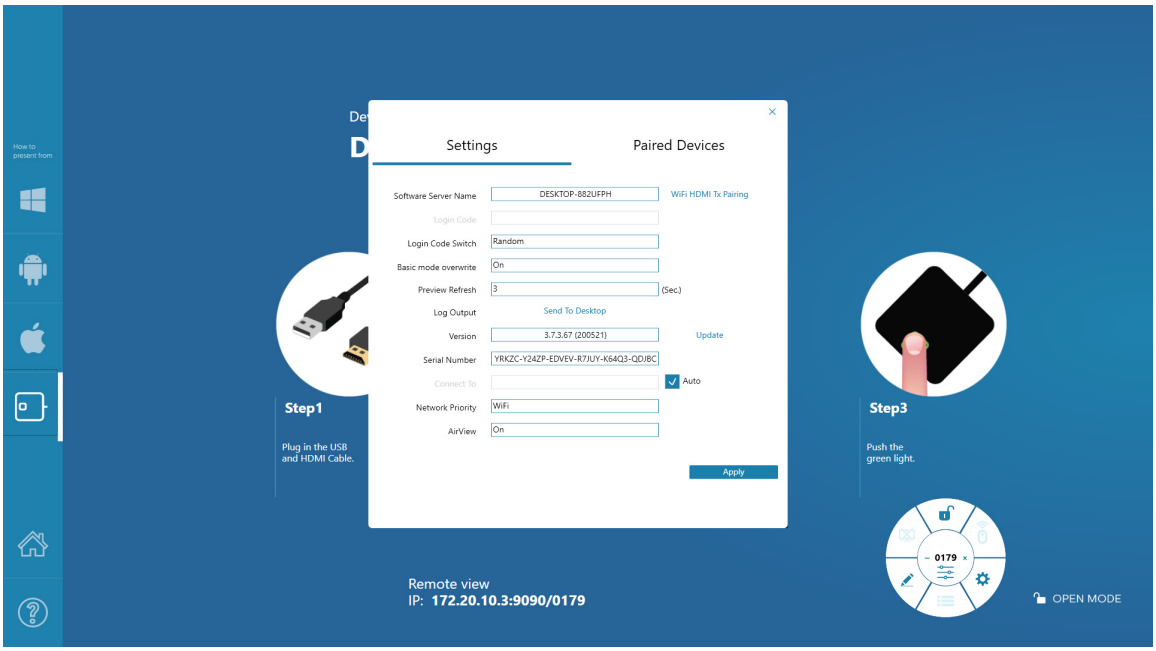
1. Make sure that your Receiver is connected properly with your interactive display.

2. Turn on your receiver.

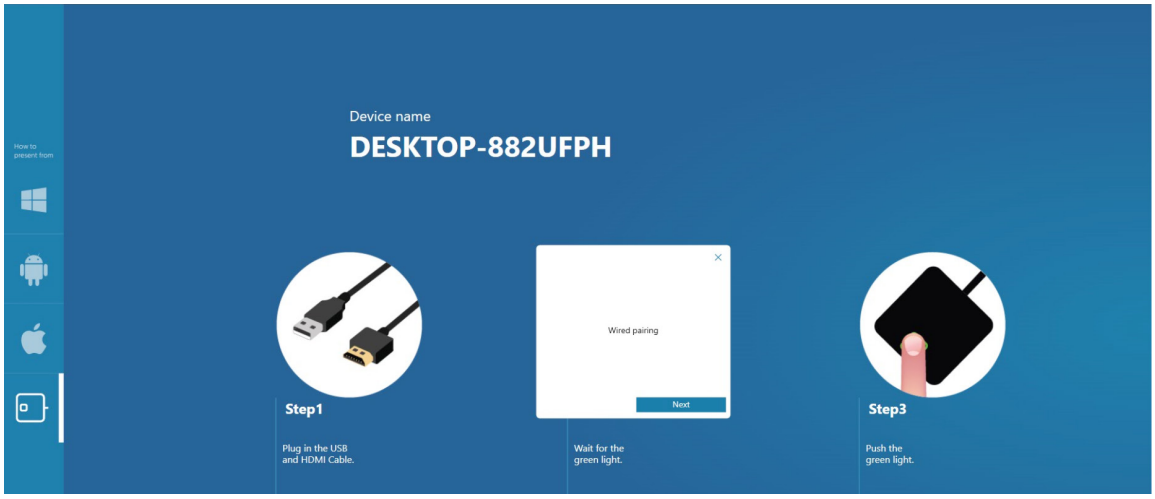
3. Insert the USB of the IMD Sync transmitter into the ‘USB IN’ port of the Receiver .

4. Open settings in the floating circle menu on your display.

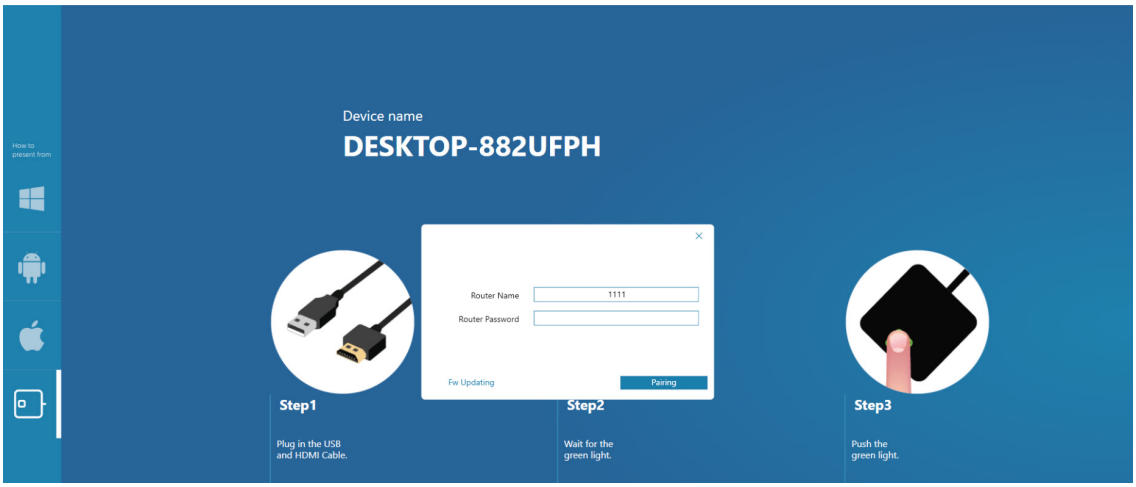
5. Select “WiFi HDMI Tx Pairing”



6. The dialog “wired Pairing” will pop up, select “next”



7. Now we're in the "Pairing Data Settings"-screen, here a Wi-Fi password is needed. When the WiFi doesn't have a password, then just press "Pairing"



8. The system will ask permission to access the USB device for the first pairing, provide permission and select "ok"

9. Dialog "Transferring data for pairing" will appear.

10. "successfully transfer data for pairing", press "OK".

11. Unplug your IMD Sync HDMI Transmitter from the receiver and connect it to your laptop or other device.

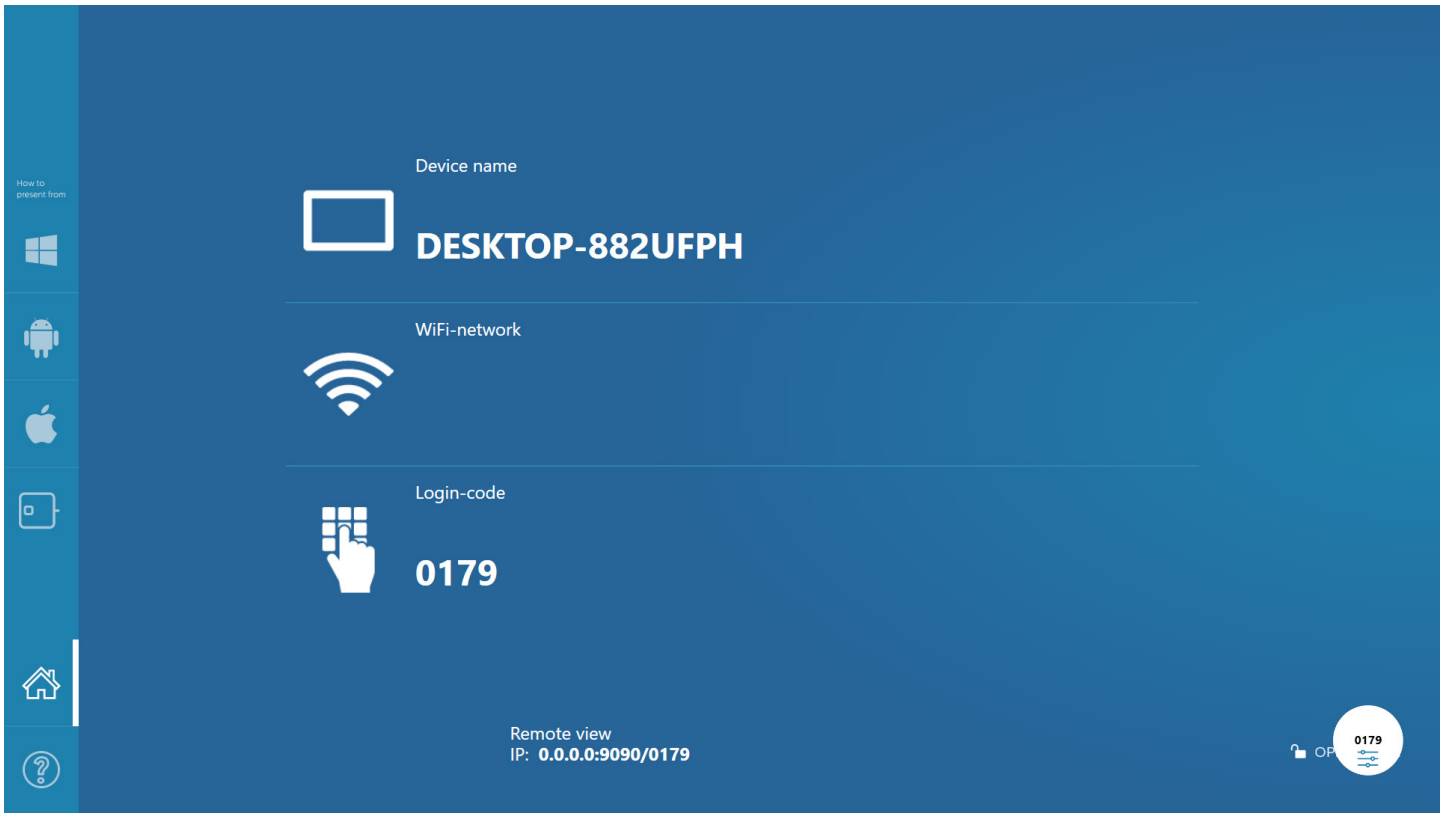
12. IMD Sync HDMI Transmitter is now paired and ready to use, enjoy!

7.1. How to use your presenting solution

7.1.1. Usage of the Receiver

7.1.1.1. IMD R-Sync User Interface

When you see the screen below, the IMD Sync receiver is ready to start screen mirroring. Choose in the sidebar which operating system you are using as transmitter to start the screen sharing on with your IMD R-Sync.



Device Name	it will be identical to the Display name.
IP Address	Received from another DHCP server or configured manually to server.
Connect To	Show the upper AP router SSID via Wi-Fi connection. Show “LAN” via LAN connection.
Login-Code	4 Digits to ensure client connect to the correct receiver server.
Software Download	Web link to download IMD Sync Client Software and user guide
Action Short Cut / floating wheel menu	The control panel and main functions of IMD Sync.

7.1.1.2. Action Short Cut on the touch panel

Press the to expand the floating circle menu. Press the center of the floating menu again to close it.

Unlock/lock menu.

Enable/Disable Back Control from receiver to control the Windows / Mac clients.

Enable/Disable Back Control from receiver to control the Windows / Mac clients.

Show clients' screens preview on left or right bar in conference mode

Open this icon if you would like to make some annotations/drawings during the screen sharing

Stop all mirroring screens on the receiver.

7.1.1.3. Basic Mode and Conference Mode

Multi-screens in Conference Mode

The meeting host as an admin who can select which screen to share and join in the split screens. Click on the highlighted multi-screen icon to let the screen preview bar show up. Or move the mouse cursor or swipe on the touch panel from the left/right side to edge.

7.1.1.4. Touch back

The Touch back feature enables the IMD Sync receiver to interact with the IMD Sync client. This enables you to control your laptop on the display without remote.

Click to enable Touch back from receiver to control the Windows/Mac client. Touch back only works when Windows/Mac client is in full screen mirroring.

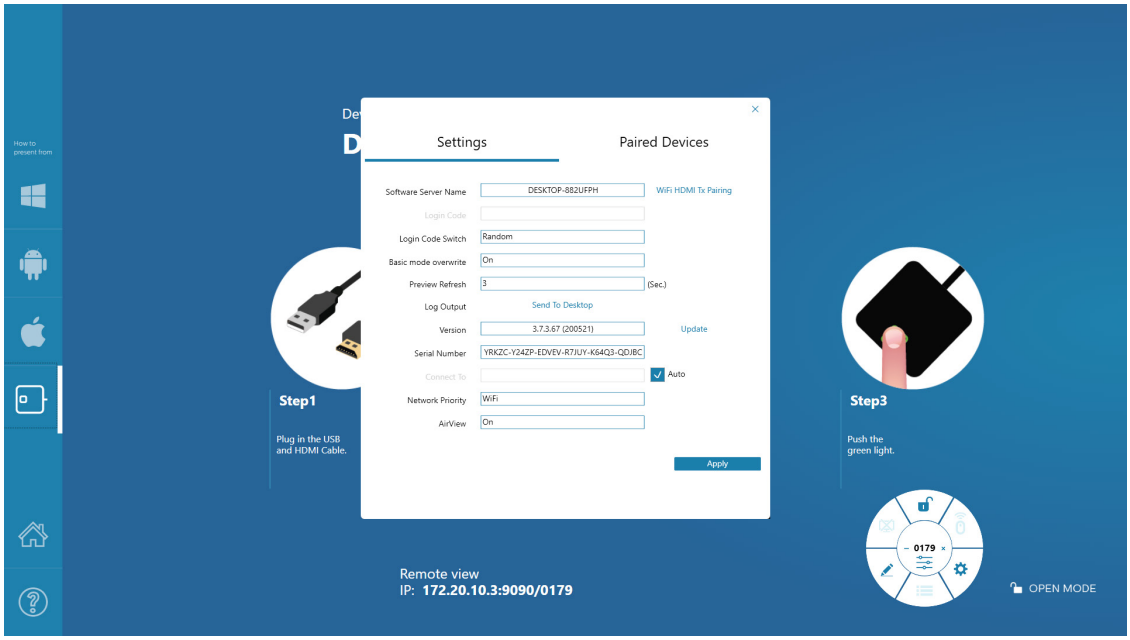
Click to disable the Touch back.

7.1.1.5. Annotator

Click to open annotator. The annotator floating menu will be shown on the upper left corner of your screen. This application gives you the opportunity to take notes on the display during the screen mirroring. Done with taking notes? Simply save and share your notes via the integrated whiteboard application.

7.1.1.6. IMD Sync Settings

Click to open your IMD Sync settings.



You have to restart the IMD R-Sync to apply the changed settings. Restarting can be done after pressing the 'Apply' button in de right-bottom corner of the settings screen.

Software Server Name	It will be identical to the Windows Computer Name. Editable for customized name for the receiver, and only effective to the clients' recognition. Windows Computer Name remains the same.
Login Code	Editable if the Login Code switch = ON (and not 'Random') Enter the 4 digits number to appoint the Login Code. After you've done this setting, the login code will always be these 4 digits.
Login Code Switch	Random = generate 4 digits randomly every time launch the software. ON = appoint 4 digits and remains the same. OFF = no Login Code required.
Basic mode overwrite	ON = The last mirroring client will overwrite the other client.OFF= The last mirroring client can't overwrite the other client.
Attendee Preview	Set the period of Attendee List Preview update. Only effective when Conference Mode enabled.
Log Output	Click "Send To Desktop" to send the log file to desktop. Send this file to support team to analyze the software issue.
Version	The IMD R-Sync version. OTA Update is available.
Serial Number	Trial Version = Haven't entered the serial number yet. Activated Version = Show the serial number.
Expire On	Trial Version = Expired Day of trial. Activated Version = Expired Day of OTA update effective.
Hardware Decode	OFF = Disable GPU hardware acceleration. ON = Enable if the platform supports GPU hardware acceleration.

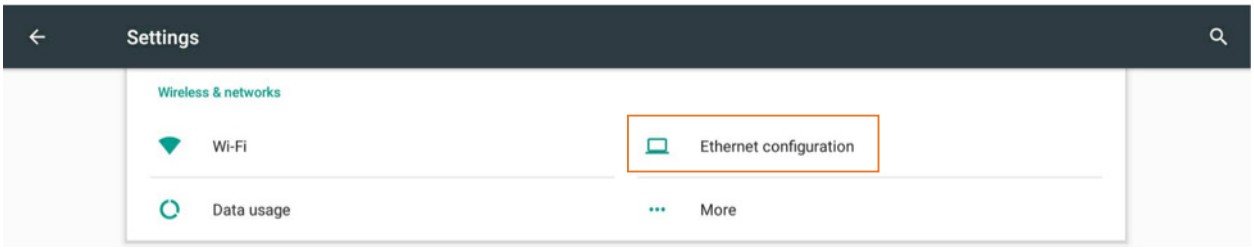
The receiver and transmitter use several ports:

1. 6618, 6619, 6620: these are used for the core functionalities, connection and streaming
2. 9090: used for the remote view functionality
3. 8008, 8009: used by Google cast
4. two random ports: used for the Airplay functionality

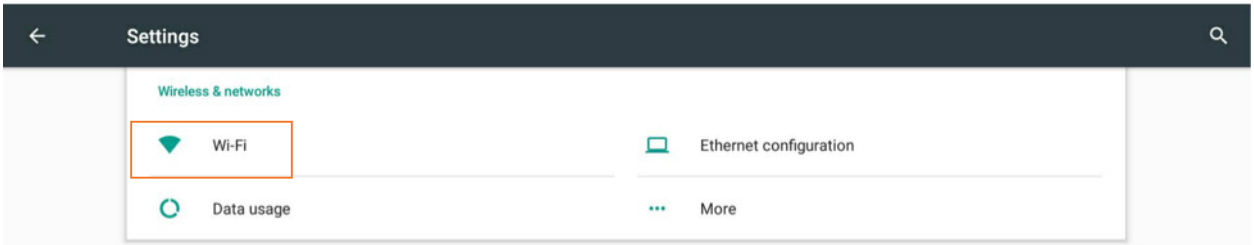
7.1.1.7. (Android) System Settings

Click to open your system settings. Via these settings you will be able to change the WiFi network, do a firmware update and much more.

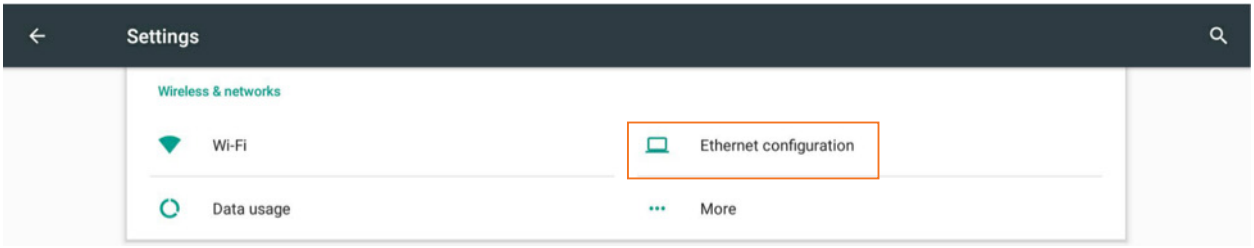
Connecting to the internet:
Wired: Plug the LAN-cable into the LAN-port at the back of the IMD Sync Touch receiver, to connect to the internet.



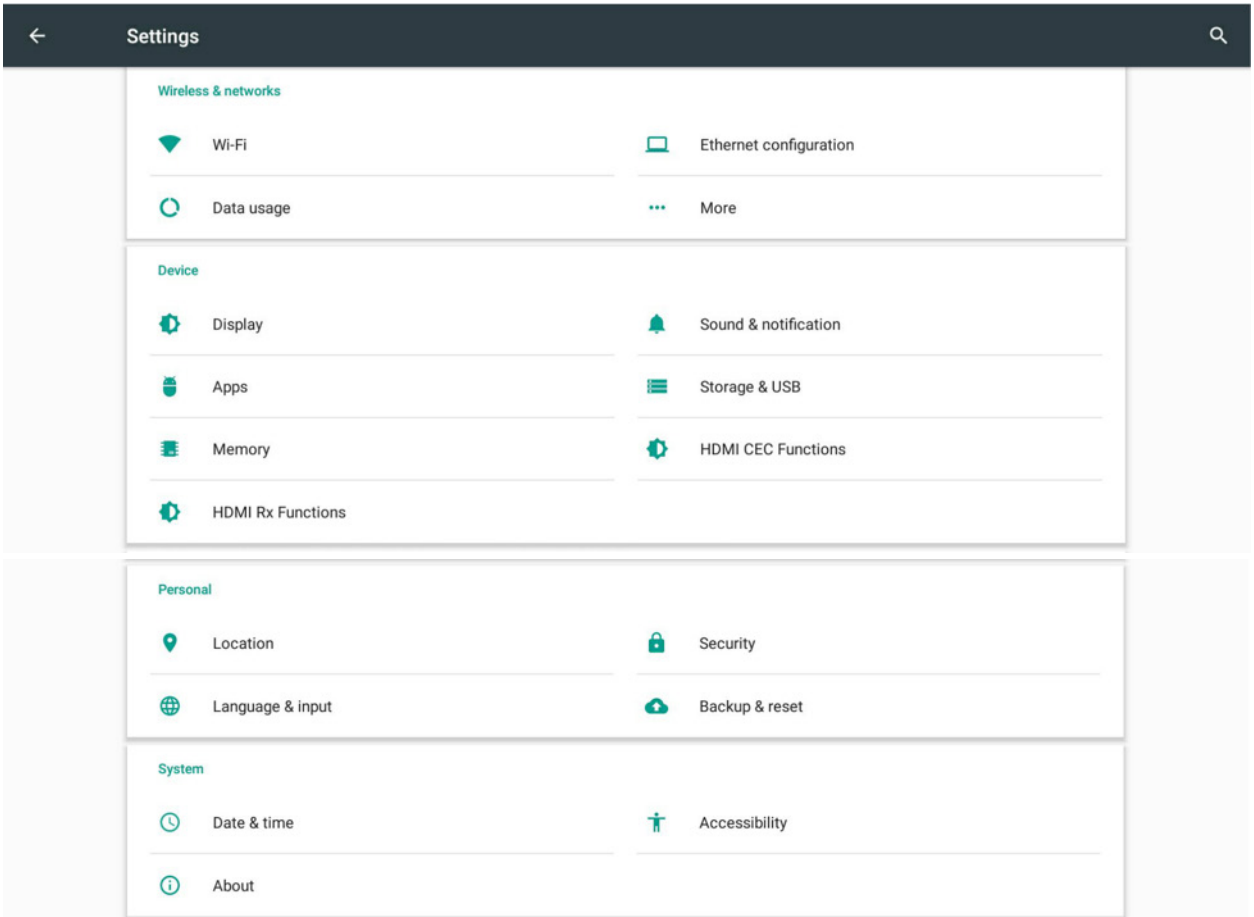
Wireless: click on Wi-Fi in, then turn on the Wi-Fi in the right upper corner of the settings screen.



Hotspot mode: click on hotspot if you would like to use your device via its available hotspot mode.



More settings



7.2. How to start screen mirroring?

The user has the option to choose between a software and hardware transmitter. The software transmitter can be downloaded from the website. Please refer to our existing manual if you would like to start screen sharing in combination with the:

- IMD Sync Transmitter app: please refer to our website to download the IMD Sync manual.
- IMD Sync HDMI Touch transmitter: please refer to our website to download the manual of the IMD Sync HDMI Touch transmitter.

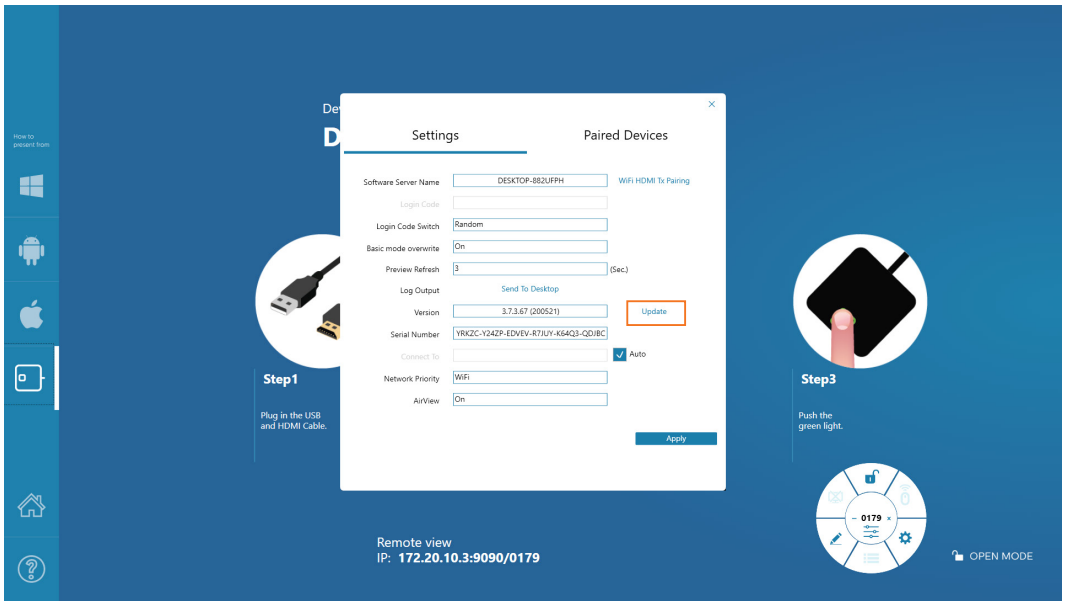
7.3. Keep your receiver up-to-date

The receiver uses 'over the air' mechanism to keep your device up-to-date.

Update the IMD R-Sync application

Go to your IMD R-Sync settings.

And check if your software is up-to-date.



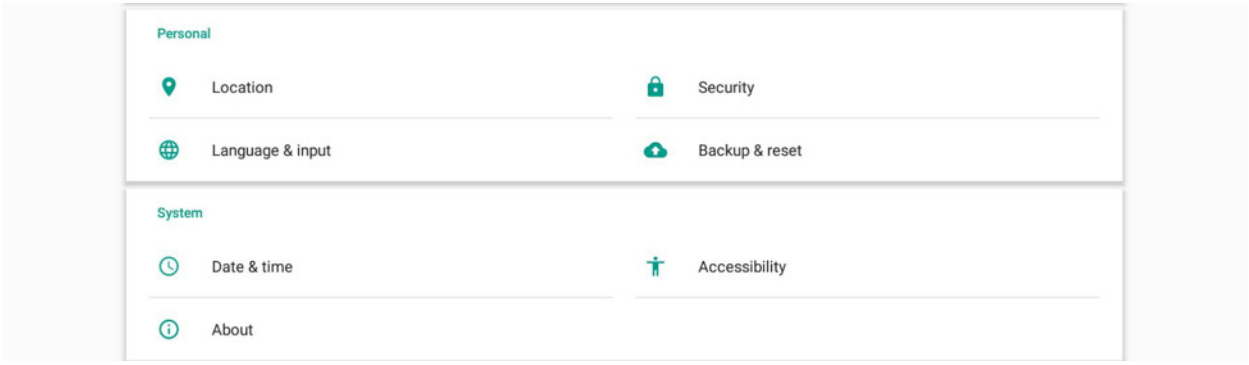
Update the IMD Notes whiteboard application

IMD Notes will auto detect if there is an update available. A pop-up screen will ask your permission to update the application.

Update the IMD Annotate application

IMD Annotate will auto detect if there is an update available. A pop-up screen will ask your permission to update the application.

System update



7.4. Troubleshooting

Screen mirroring with my IMD Sync Android transmitter software doesn't work.
Please turn of your 4G before you start the screen sharing. This is a bug at Android and can't be fixed.

Troubles with the license of the IMD Sync Receiver?
What can you do:

- Check if you're connected with the internet
- Using the receiver for the first time? Please insert a LAN cable.

Isn't the problem solved? Please contact our service team.

Touchback issues
Please be aware that the touchback function only works when you are screen sharing with:

- The IMD Sync HDMI Touch transmitter (hardware solution)
- The IMD Sync windows transmitter (software application)
- The IMD Sync macOS transmitter (software application
- And NOT using an Android device (as transmitter)

Applications which do not support touchback:

- The IMD Sync Android transmitter (software application)
- Airplay for iOS and macOS
- The IMD Sync HDMI Transmitter (hardware solution)

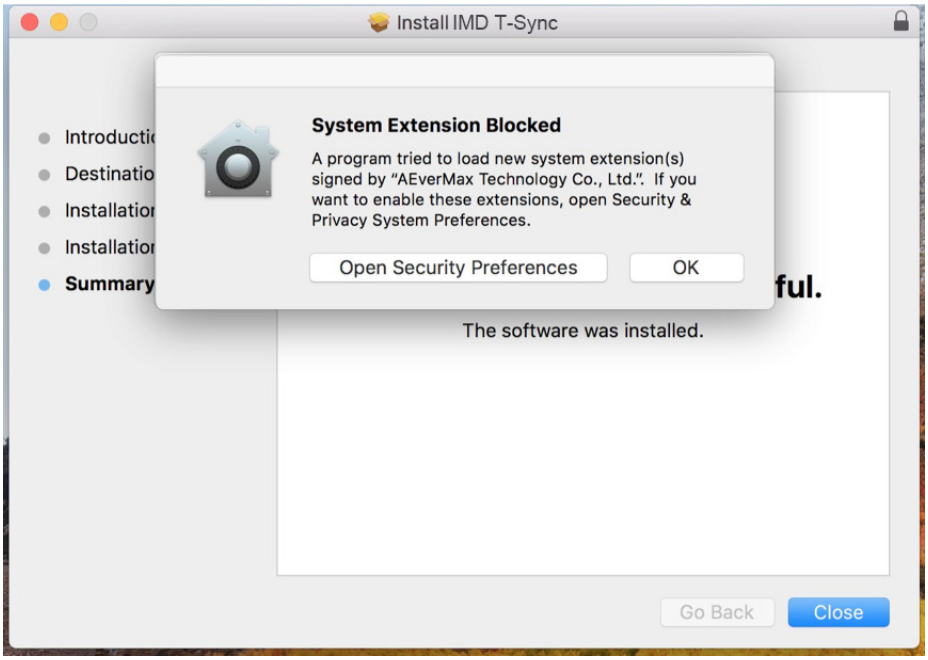
Enable the touchback on the receiver's side

No sound
You are screen sharing but there is no sound on your touch display?

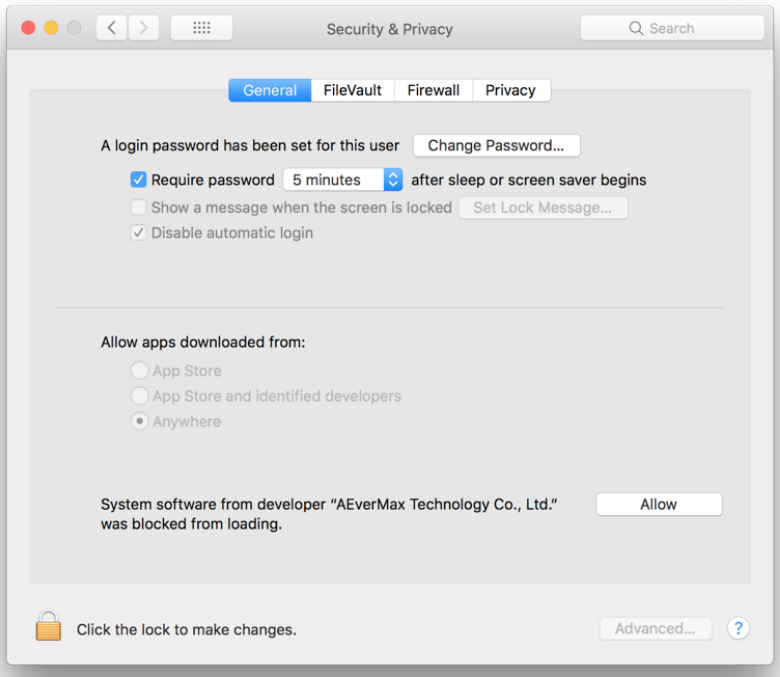
- Are you using an Android device? Sorry, it's not possible with an Android device. Are you using a Windows or Mac than please follow the steps below
- Please check if the sound of your touch display is loud enough. Turn up the volume of the touch display
- Using the IMD Sync software transmitter? Please check if the volume of your application is open.

Is the problem is not solved by checking these issues? Please contact our service team.

Mac permission settings
Above macOS 10.13, it will require permission to execute software on Mac. If the permission is not open, it will cause the projection without sound of IMD Sync. When you installed the IMD Sync app on your mac for the first time, Mac will ask permission as below. Choose Open Security Preferences.



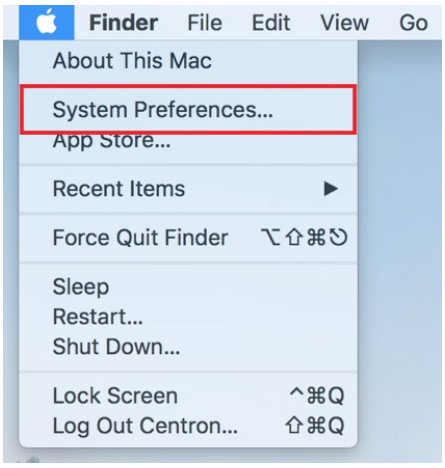
Now click the lock icon to unlock it, then choose "allow"



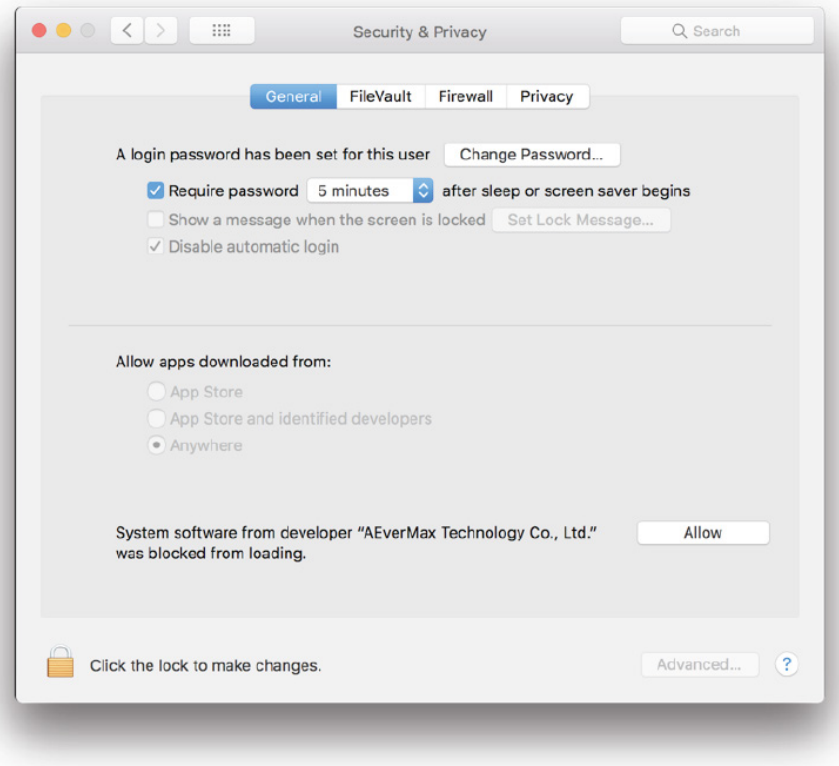
Mac permission settings

How to turn on permissions if I didn't allow permission when I installed the software?

Go to "system preferences"



Choose the tab "general" and click the lock icon to unlock it, then choose "allow"



No sound with macOS software transmitter

Please contact our service team. They will guide you through the solution.

Other problems?

Please contact our customer service team, they will be pleased to help you out.

8. Supported Media Formats

USB Multimedia Codec Formats

Video Decode						
Type	Video Codec	Container	Decode	Encode	Channel	Remark
MPEG1/2	MPEG1/2	MPEG program stream (.DAT, .VOB, .MPG, .MPEG) MPEG transport stream (.ts) MP4 (.mp4) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats : 40Mbps
MPEG-4	MPEG4	MP4 (.mp4) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats : 40Mbps
H.263	H.263	FLV (.flv) AVI (.avi)	V			Max Resolution: 1080P@60fps Max Bit Rats : 40Mbps
H.264	H.264	FLV (.flv) MP4 (.mp4) MPEG transport stream (.ts) ASF (.asf) WMV (.wmv) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats : 135Mbps 4K2K@30fps 8K@30HZ
H.265	H.265	MP4 (.mp4) MPEG transport stream (.ts) MKV (.mkv)	V			Max Resolution: 4K2K@60fps Max Bit Rats : 100Mbps 8K@30HZ
GOOGLE VP8	VP8	MKV (.mkv) WebM (.webm)	V			Max Resolution: 1080P@30fps Max Bit Rats : 20Mbps
Motion JPEG	MJPEG	AVI (.avi) MP4 (.mp4) MKV (.mkv)	V			Max Resolution: 1920*1080 @30fps Max Bit Rats : 40Mbps

Audio Decode

Type	Audio Codec	Container	Decode	Encode	Channel	Remark
MPEG Audio	MPEG1/2/2.5 Audio Layer1/2/3	MP3	V		2	Bit Rate: 8kbps~320Kbps Sampling Rate: 16KHZ~48KHz
Windows Media Audio	WMA Version 7, 8, 9,10 pro M0, 10Pro M1,M10 Pro M2	Decode: WMA	V		2	Bit Rate: 8kbps~768Kbps Sampling Rate: 8KHZ~96(M10) KHz Non-support LBR
AAC Audio	MAIN, ADIF ,ATDS Header AAC-LC and AAC-HE	File Format: AAC, M4A	V		5.1	Bit Rate: N/A Sampling Rate: 8KHZ~48KHz

Image Decode

Type	Image Codec	Photo	Decode	Encode	Channel	Remark
JPEG	JFIF file format 1.02	File Format: JPG, JPEG	V			Max Resolution: 7000 x 7000 The limitation of max resolution depends on DRAM
BMP	BMP	File Format: BMP	V			Max Resolution: 15360 x 8640 The limitation of max resolution depends on DRAM
PNG	PNG	File Format: PNG	V			Max Resolution: 15360 x 8640 The limitation of max resolution depends on DRAM

NOTES:

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

9. Input Mode

VGA/DVI timing support:

Item	Mode	Resolution	H.Freq. (KHz)	V.Freq. (Hz)
1	IBM VGA 10H	640x350	31.469	70.086
2	IBM VGA 12H	640x480	31.469	59.94
3	MACINTOSH	640x480	35	66.67
4	VESA	640x480	37.861	72.809
5	VESA	640x480	37.5	75
6	IBM VGA 3H	720x400	31.469	70.087
7	VESA	800x600	35.156	56.25
8	VESA	800x600	37.879	60.317
9	VESA	800x600	48.077	72.188
10	VESA	800x600	46.875	75.000
11	MACINTOSH	832x624	49.726	74.551
12	VESA Standard AddDMT	848x480	31	60.000
13	-	960x720	56.4	75.000
14	VESA	1024x768	48.363	60.004
15	VESA	1024x768	56.476	70.069
16		1152x864	53.986	59.985
17	VESA	1152x864	53.783	59.959
18		1152x864	63.851	70.012
19	VESA	1152x864	67.5	75.000
20	SUN WS	1152x900	61.846	66.004
21	-	1280x720	44.772	60.000
22	-	1280x720	52.5	70.000
23	CVT 2.3MA	1280 x768	47.776	59.870
24	CVT 2.3MA	1280 x768	60.289	74.893
25	CVT	1280x800	49.7	59.810
26	CVT	1280x800	62.8	74.930
27	VESA	1280x960	60	60.000
28	VESA	1280x1024	63.981	60.020
29	SUN WS	1280x1024	71.691	67.189
30	VESA	1280x1024	79.976	75.025
31	VESA Standard AddDMT	1360x768	47.712	60.015
32	VESA Standard AddDMT	1366x768	47.712	59.790
33	VESA-reduced blanking mode	1440x900	55.469	59.901
34	VESA	1440x900	55.935	59.887
35	VESA	1440x900	70.635	74.984
36	CVT-reduced blanking	1400x1050	64.744	59.948
37	CVT AddDMT	1440x1050	65.3	60.000
38	CVT	1400x1050	82.278	74.867
39	CVT Red. Blanking	1600x900	55.54	60.000
40	VESA	1600x1200	75	60
41	CVT1.76MW	1680x1050	65.29	59.954
42	CVT1.76MW-R	1680x1050	64.674	59.883
43	CVT 2.3MA-R	1920x1080	66.587	59.934
44	VESA Standard VDMTREV	1920x1080	67.5	60.000
45	CVT1960H	1920x1080	67.1584	59.963
46	VSC1960H	1920x1080	67.08	60
47	CVT 2.3MA-R	1920x1200	74.038	59.950

4K2K

Item	Resolution	H.Freq. (KHz)	V.Freq. (Hz)
1	3840x2160	53.946	23.900
2	3840x2160	54	24.000
3	3840x2160	56.25	25.000
4	3840x2160	67.432	29.900
5	3840x2160	67.5	30.000
6	3840x2160	112.5	50.000
7	3840x2160	135	60.000

Video Timing support(HDMI/DVD HD/DVI)

Item	Mode	Resolution	Comment
1	60Hz	480i	except DVI
2		480p	
3		720p	
4		1080i	
5		1080p	
6		4Kx2K	except DVI
7	50Hz	576i	except DVI
8		576p	
9		720p	
10		1080i	
11		1080p	
12		4Kx2K	except DVI

NOTE: OPS support 3840x2160@30Hz.

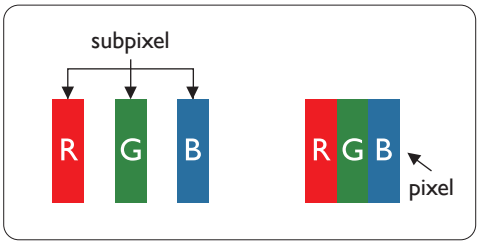
- The PC text quality is optimum in UHD 1080 mode (3840 x 2160, 60Hz).
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5KHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the [INPUT] button to enter the video mode. Also, make sure that the PC is connected.
- When horizontal synchronous signals seem irregular in RGB mode, check PC power saving mode or cable connections.
- The display settings table complies to the IBM/VESA standards, and based on the analog input.
- The DVI support mode is regarded as same to the PC support mode.
- The best timing for the vertical frequency to each mode is 60Hz.
- Resolution 3840x2160 50/60Hz must be equipped with HDMI certified cable(Premium High Speed HDMI Cables).

10. Pixel Defect Policy

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

10.1. Pixels and Sub-Pixels



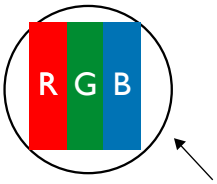
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

10.2. Types of Pixel Defects + Dot Definition

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

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

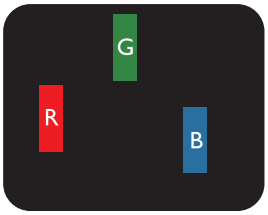
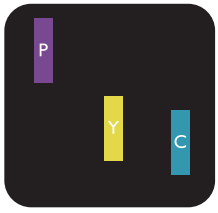
One or more defective, adjacent sub-pixel are defined as one "dot". The no. of defective sub-pixels are not relevant to define a defective dot. This means that a defective dot can consist of one, two or three defective sub-pixels which can be dark or lit.



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

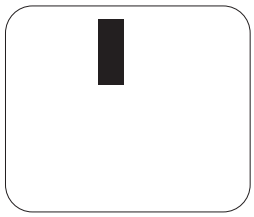
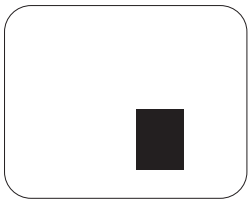
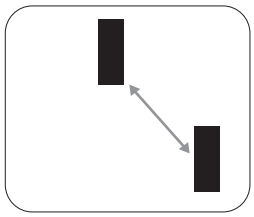
10.3. Bright Dot Defects

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

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

10.4. Dark Dot Defects

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

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

10.5. Proximity of Pixel Defects

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

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

10.6. Pixel Defect Tolerances

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

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

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

10.7. MURA

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

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

HOW TO SPOT MURA

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

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

HOW TO AVOID MURA

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

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

11. Cleaning and Troubleshooting

11.1. Cleaning

Caution When Using the Display

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

Front Panel Cleaning Instructions

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

Cabinet Cleaning Instructions

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

11.2. 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.
Display image doesn't fill up the full size of the screen	1. The zoom mode is not set correctly. 2. Scan Mode may be set incorrectly to underscan. 3. If the image exceeds the screen size, Scan Mode may need to be set to Underscan.	Use the Zoom mode or Custom zoom function in the Screen menu to fine tune display geometry and time frequency parameter.
Can hear sound, but no picture	Source signal cable is connected improperly.	Make sure that both video inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	1. Source signal cable is connected improperly. 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 [🔇] 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-synchronizm phenomenon. It is suggested to use the above settings with RS-232 cable.

12. Technical Specifications

Display: 75BDL8051C

Item	Specifications
Screen Size (Active Area)	189.3 cm / 74.5 inches
Aspect Ratio	16:9
Number of pixels	3840 (H) x 2160 (V)
Pixel pitch	0.4935 (H) x 0.4935 (V) [mm]
Displayable colors	1.07 Billion colors
Brightness (typical)	350 cd/m^2
Contrast ratio (typical)	1000:1
Viewing angle	178 degrees

In/Out Terminals:

Item		Specifications
Audio Output	3.5mm phone jack x 2	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	3.5mm phone jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
RS232	2.5mm phone jack x 2	RS232 in / RS232 out
RJ-45	RJ-45 Jack x 1 (8 pin)	100baseT
HDMI Input /Output	HDMI Jack(Type A) (19 pin) in x 4/Out x 1	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 x 2160/60 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
Displayport in / out	Displayport Jack x 1 (20 pin)	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 x 2160/30 Hz Audio - 48 KHz / 2 Channel (L+R) Supports LPCM only
DVI-I (DVI-D & VGA) Input	DVI-I jack	Digital RGB: TMDS (Video) Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
OPS C	Plug connector (80 pin)	TMDS 3840x2160@30Hz
SD card	Micro SD card	Support to 1TB
USB Input	USB2.0 TypeA x2 USB3.0 TypeA x2	USB2.0 USB3.0
	USB3.0 C x 1	Support input signal up to 4K/60 HZ Charger 5V/3A to external device connect touch cunction to external PC

General:

Item	Specifications
Power Input	100 - 240V~, 50/60HZ, 6.5A
Power Output	100 - 240V~, 50/60HZ, 2.5A
Power Consumption (Max)	340 W
Power Consumption (typ.)	240 W
Power Consumption (Standby & Off)	<0.5 W
Dimensions (Without Stand) [W x H x D]	1703.8 x 982.0 x 99.7 mm
Weight (Without Stand)	66.5 Kg
Gross Weight (Without Stand)	78.59 Kg (Include the weight of small pallet)
Energy Efficiency Class	B
Visible Screen Size	189.3 cm / 74.5 inches
On Mode Power Consumption (W)	240 W
Annual Energy Consumption (kWh)	350 kWh
Standby Power Consumption (W)	0.5 W
Off Mode Power Consumption (W)	0.3 W
Display Resolution (Pixels)	3840 x 2160
Network Standby (W)	2 W

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 ~ 3,000 m
	Storage / Shipment	0 ~ 9,000 m

Display: 86BDL8051C

Item	Specifications
Screen Size (Active Area)	217.4 cm / 85.6 inches
Aspect Ratio	16:9
Number of pixels	3840 (H) x 2160 (V)
Pixel pitch	0.4935 (H) x 0.4935 (V) [mm]
Displayable colors	1.07 Billion colors
Brightness (typical)	350 cd/m^2
Contrast ratio (typical)	1000:1
Viewing angle	178 degrees

In/Out Terminals:

Item		Specifications
Audio Output	3.5mm phone jack x 2	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	3.5mm phone jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)
RS232	2.5mm phone jack x 2	RS232 in / RS232 out
RJ-45	RJ-45 Jack x 1 (8 pin)	100baseT
HDMI Input /Output	HDMI Jack(Type A) (19 pin) in x 4/Out x 1	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 x 2160/60 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
Displayport in / out	Displayport Jack x 1 (20 pin)	Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 x 2160/30 Hz Audio - 48 KHz / 2 Channel (L+R) Supports LPCM only
DVI-I (DVI-D & VGA) Input	DVI-I jack	Digital RGB: TMDS (Video) Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
OPS C	Plug connector (80 pin)	TMDS 3840x2160@30Hz
SD card	Micro SD card	Support to 1TB
USB Input	USB2.0 TypeA x2 USB3.0 TypeA x2	USB2.0 USB3.0
	USB3.0 C x 1	Support input signal up to 4K/60 HZ Charger 5V/3A to external device connect touch cunction to external PC

General:

Item	Specifications
Power Input	100 - 240V~, 50/60HZ, 7.5A
Power Output	100 - 240V~, 50/60HZ, 2.5A
Power Consumption (Max)	460 W
Power Consumption (typ.)	300 W
Power Consumption (Standby & Off)	<0.5 W
Dimensions (Without Stand) [W x H x D]	1949x 1120x 93.0 mm
Weight (Without Stand)	79.5Kg
Gross Weight (Without Stand)	106.8 Kg (Include the weight of small pallet)
Energy Efficiency Class	B
Visible Screen Size	217.4 cm / 85.6 inches
On Mode Power Consumption (W)	297 W
Annual Energy Consumption (kWh)	434 kWh
Standby Power Consumption (W)	0.5 W
Off Mode Power Consumption (W)	0.3 W
Display Resolution (Pixels)	3840 x 2160
Network Standby (W)	2 W

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 ~ 3,000 m
	Storage / Shipment	0 ~ 9,000 m

Appendix Warranty Statement

Warranty policy for Philips Professional Display Solutions

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	1 year
Japan	1 year
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.

Version: V1.01 2021-05-25