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V1.00



www.philips.com/welcome

User Manual (English)

PHILIPS

Signage*Solutions*

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



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

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

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 gniazda, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

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

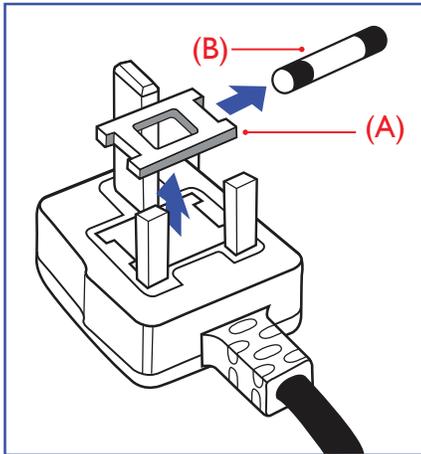
Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać 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 bezzakłócenowego 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:

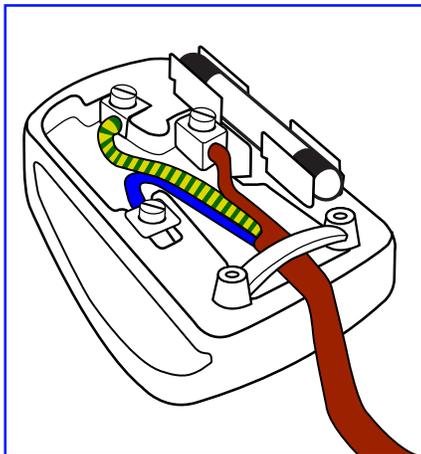
This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:+

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 PLACERINGSFOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMT TILGÆNGLIGE.

Paikka/Ilmankierto

VAROITUS:

SJJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA PISTORASIESTA.

Plassering/Ventilasjon

ADVARSEL:

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

China RoHS

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

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

本表格依据SJ/T 11364 的规定编制。

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

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

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

上表中打“×”的部件，应功能需要，部分有害物质含量超出GB/T 26572规定的限量要求，但符合欧盟RoHS法规要求（属于豁免部分）。

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



环保使用期限

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

《废弃电器电子产品回收处理管理条例》提示性说明

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

警告

此为A级产品。在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对干扰采取切实可行的措施。

單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr ⁺⁶)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
塑料外框	○	○	○	○	○	○
後殼	○	○	○	○	○	○
液晶面板	—	○	○	○	○	○
電路板組件	—	○	○	○	○	○
底座	○	○	○	○	○	○
電源線	—	○	○	○	○	○
其他線材	—	○	○	○	○	○
遙控器	—	○	○	○	○	○
喇叭（選配）	—	○	○	○	○	○
風扇（選配）	—	○	○	○	○	○

備考1. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。
備考2. “—” 係指該項限用物質為排除項目。

警語：使用過度恐傷害視力。

注意事項：

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

警告使用者：

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

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.



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

This product qualifies for ENERGY STAR in the "factory default" settings and this is the setting in which power savings will be achieved.

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

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

Restriction on Hazardous Substances statement (India)

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

E-Waste Declaration for India



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

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

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

Batteries



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

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

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

For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.

According to EU directive 2006/66/EC, the battery can't be disposed improperly. The battery shall be separated to collect by local service.



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

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

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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 any object on the carton.



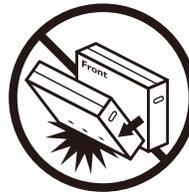
- Move the carton by stacker.



- Do NOT apply shock/vibration to the product.



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



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.

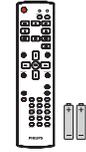
1.2. Package Contents

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

- LCD display
- Quick start guide
- Remote Control and AAA batteries
- Power cord
- RS232 cable
- RS232 daisy chain cable
- Logo
- Edge Alignment Kit-1: 2PCS
- Edge Alignment Kit-2: 1PCS
- Thumb Screw: 8PCS

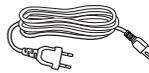


Quick start guide



Remote Control and AAA Batteries

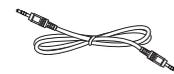
* The supplied power cord varies depending on destination.



Power Cord



RS232 Cable



RS232 Daisy Chain Cable



Logo



Thumb Screw x 8



Edge Alignment Kit-1 x 2



Edge Alignment Kit-2 x 1

* Items may differ in different locations

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

NOTES:

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

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. Installing or removing the table stand (optional)

Step 1- Place on the table

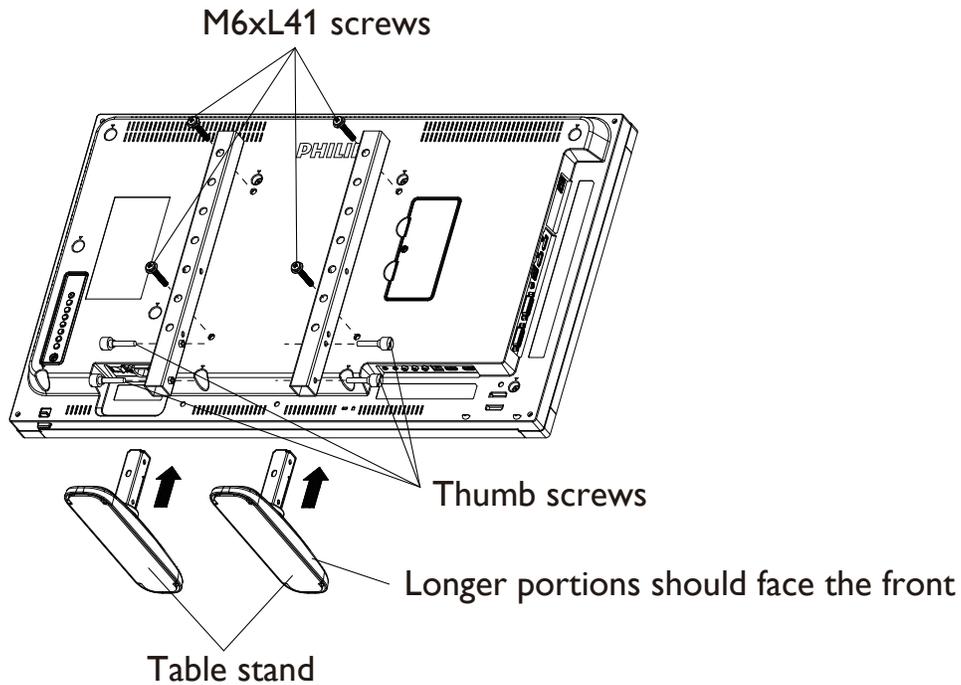
Take off the protective sheet which was wrapped around the display when it was packaged. Lay the protective sheet on the table, beneath the screen surface so as not to scratch the screen face.

Step 2- Fix the tube to the display (using M6xL41 screws)

Please refer to the following drawing to identify the position of screws.

32BDL4031D: Fasten the longest screw(M6x41.0mm) into Hole#1 and Hole#7 of tube to secure it to the display.

Step 3- Set up the stand (using thumb screws)



To remove the table stands:

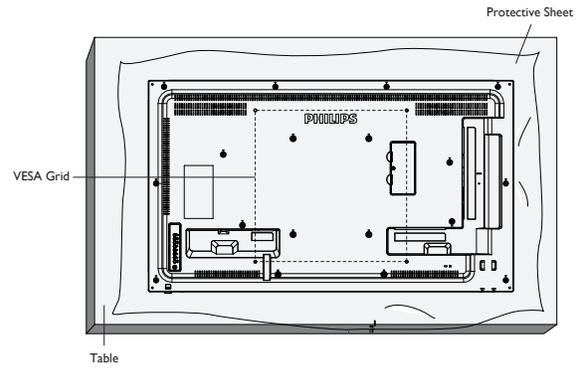
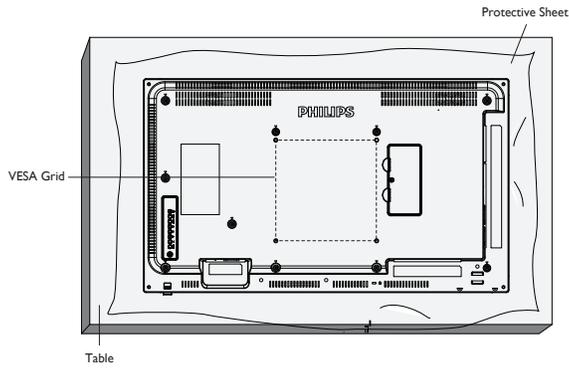
1. Power off the display.
2. Spread a protective sheet on a flat surface.
3. Place the display face-down on the protective sheet.
4. Remove screws using a screwdriver and place them in a safe place for reuse.

1.5. 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.

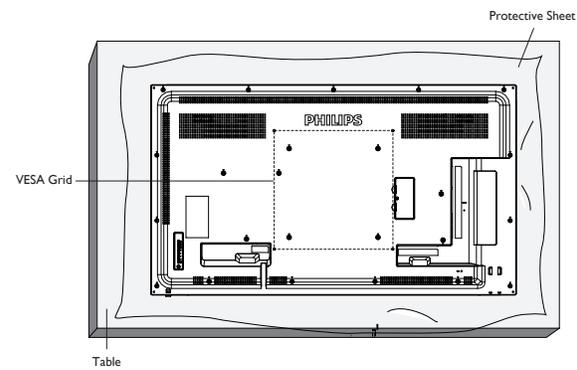
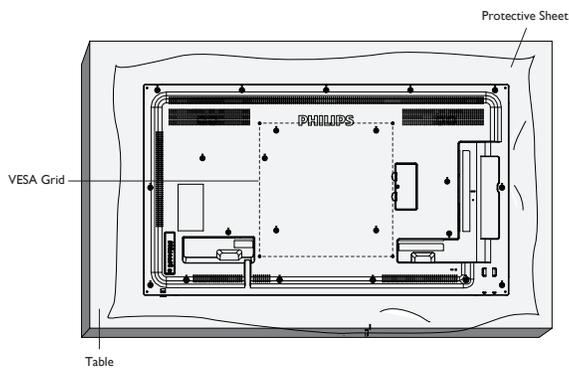
32BDL4031D

43BDL4031D



49BDL4031D

55BDL4031D



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 M6 mounting screws (with a length 10 mm longer than the thickness of the mounting bracket) and tighten them securely.
5. 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 the weight of the unit without base.

1.5.1. VESA Grid

32BDL4031D	200(H) × 200(V) mm
43BDL4031D	400(H) × 400(V) mm
49BDL4031D	400(H) × 400(V) mm
55BDL4031D	400(H) × 400(V) mm

1.5.2. Weight of the unit

32BDL4031D	6.15 kg
43BDL4031D	10.4 kg
49BDL4031D	14.8 kg
55BDL4031D	18.0 kg

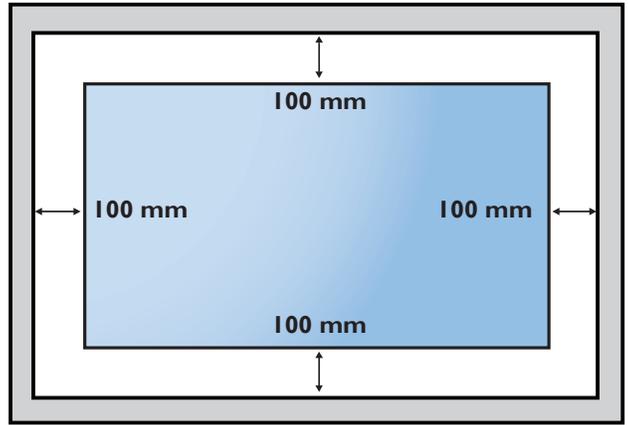
Caution:

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.

Ventilation Requirements for enclosure locating

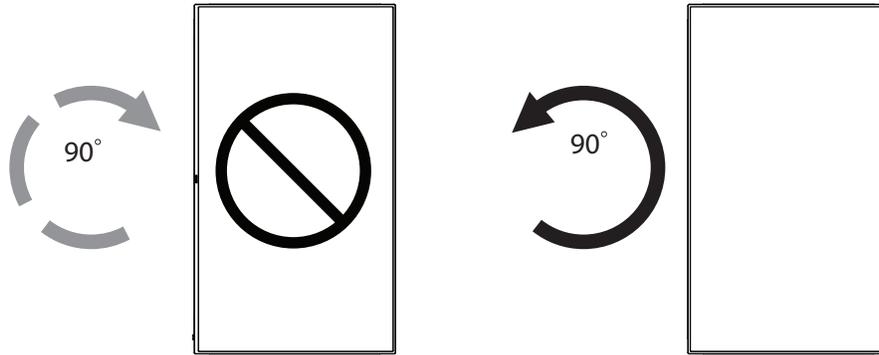
Leave a space of 100 mm at the top, rear, right and left of the display for ventilation.



1.6. Mounting in Portrait Orientation

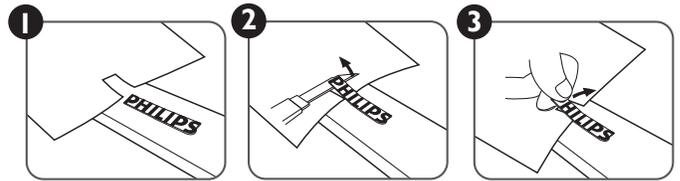
This display can be installed in portrait position.

1. If the table stand is attached, remove it first.
2. Rotate the display counter-clockwise by 90°. The "PHILIPS" logo should be on the RIGHT side when facing the display.



1.6.1. How to remove the logo

1. Prepare a piece of paper with a cutting area of logo as a protector to prevent the front bezel from scratching.
2. Use a knife and carefully remove the logo sticker with the paper placing beneath.
3. Tear off the logo sticker.

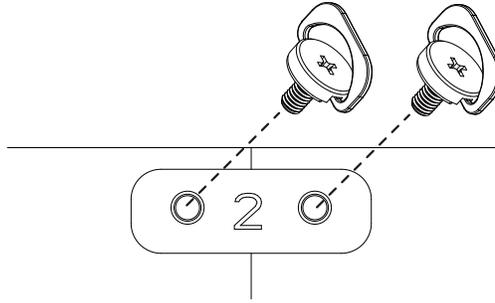


NOTE: We recommend you contact a professional technician when installing the display on a wall. We are not responsible for any damage to the product if the installation is not performed by a professional technician.

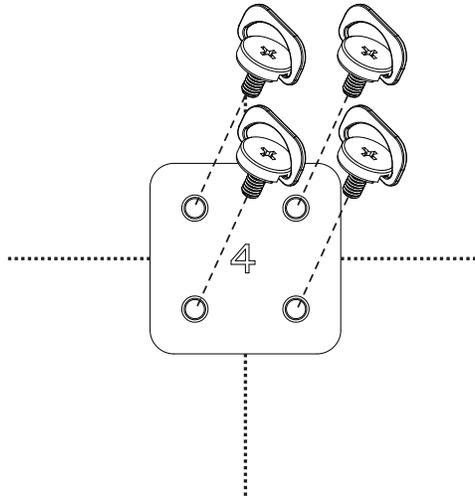
1.7. Operating Instructions of Edge Alignment Kit

1.7.1. Installing Edge Alignment Kit

- Use "Edge Alignment Kit-1" for two adjacent displays.
- Install the "Edge Alignment Kit-1" with 2 PCS of M4 screw.



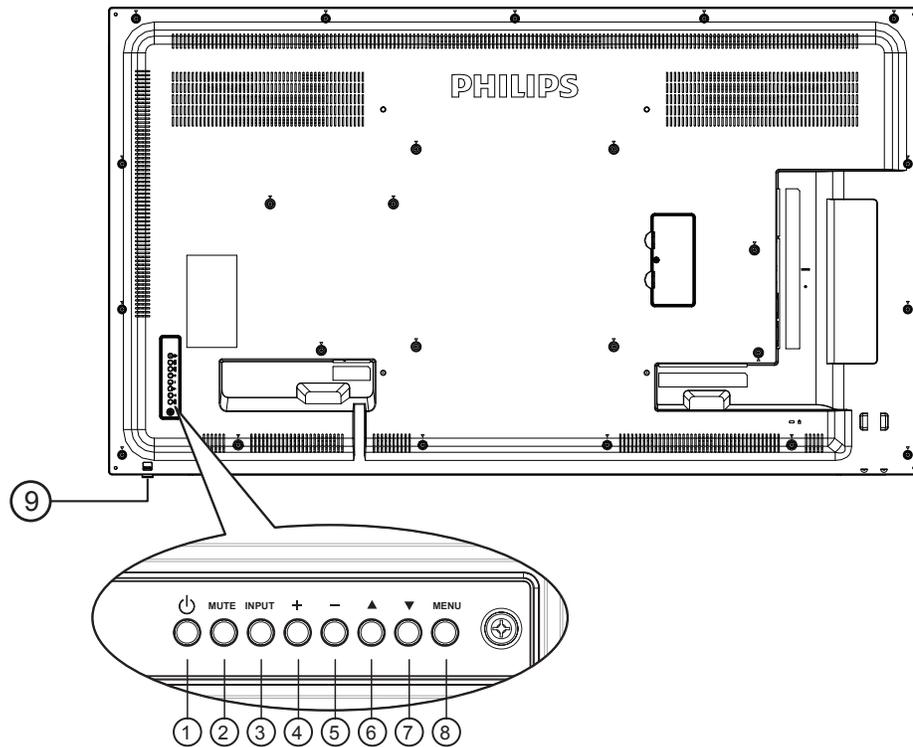
- Use "Edge Alignment Kit-2" for four adjacent displays.



NOTE: When installing the edge alignment kit, please consult a professional technician for proper installation. We accept no liability for installations not performed by a professional technician.

2. Parts and Functions

2.1. Control Panel



① [Power] button

Use this button to turn the display on or put the display to standby mode.

② [MUTE] button

Switch the audio mute ON/OFF.

③ [INPUT] button

Choose the input source.

- Used as [OK] button in the On-Screen-Display menu.

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 highlight bar up to adjust the selected item while OSD menu is on.

⑦ [▼] button

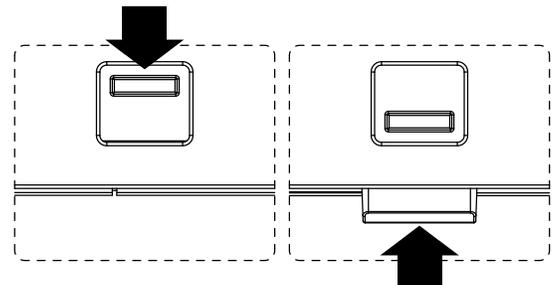
Move the highlight bar down to adjust the selected item while OSD menu is on.

⑧ [MENU] button

Return to previous menu while OSD menu is on, or to activate the OSD menu when OSD menu is off.

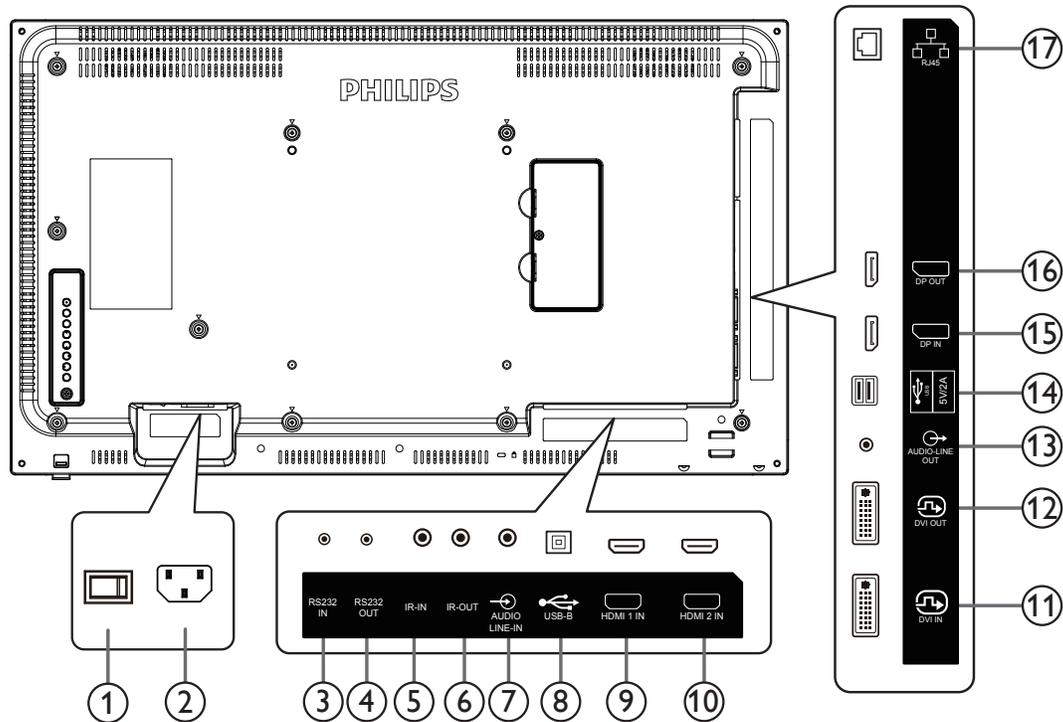
⑨ Remote control sensor and power status indicator

- Receives command signals from the remote control.
- Indicates the operating status of the display without OPS:
 - Lights green when the display is turned on
 - Lights red when the display is in 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
- Pull down the lens to have better remote control performance and easy to observe the light information of power status.
- Push up the lens before mounting the display for video wall application.
- Pull/Push the lens until hearing the click sound.



2.2. Input/Output Terminals

32BDL4031D



① MAIN POWER SWITCH

Switch the main power on/off.

② AC IN

AC power input from the wall outlet.

③ RS232C IN / ④ RS232C OUT

RS232C network input / output for the loop-through function.

⑤ IR IN / ⑥ IR OUT

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

NOTES:

- This display's remote control sensor will stop working if the jack [IR IN] is connected.
- To remotely control your A/V device via this display, refer to page 18 for **IR Pass Through** connection.

⑦ AUDIO IN

Audio input for VGA source (3.5mm stereo phone).

⑧ USB PORT B

Reserve for Touch model.

⑨ HDMI1 IN / ⑩ HDMI2 IN

HDMI video/audio input.

⑪ DVI IN

DVI-I video input.

⑫ DVI OUT

DVI or VGA video output.

⑬ AUDIO OUT

Audio output to external AV device.

⑭ USB PORT

Connect to USB storage for Firmware update.

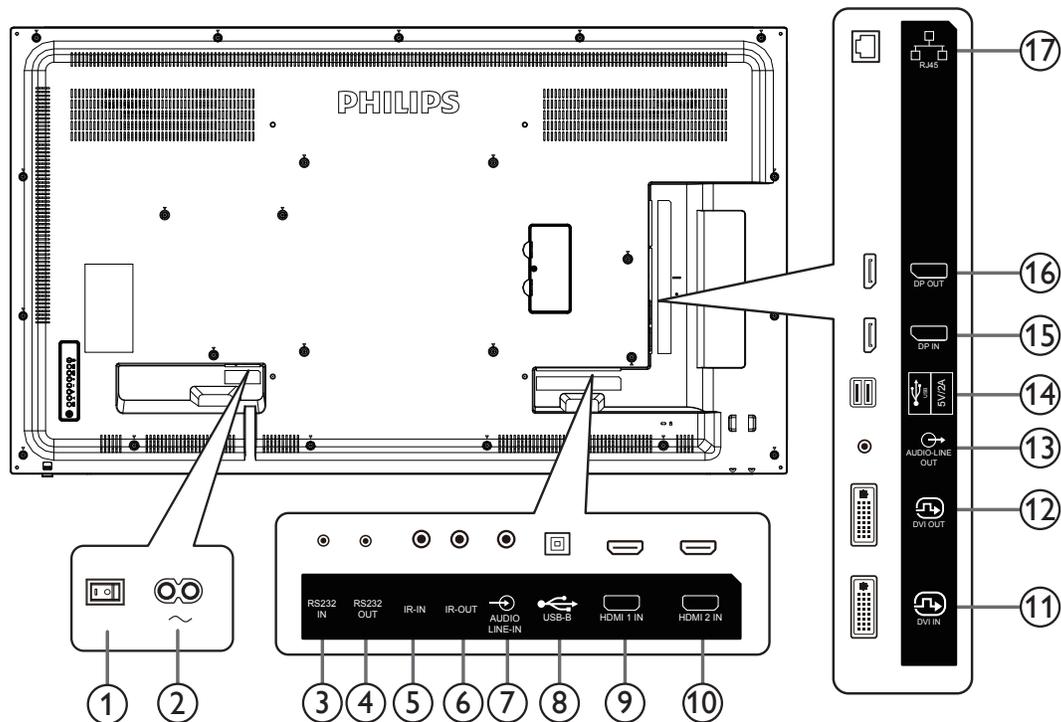
NOTE: It's for updating firmware only.

⑮ DisplayPort IN / ⑯ DisplayPort OUT

DisplayPort video input / output.

⑰ RJ-45

LAN control function from control center.



① MAIN POWER SWITCH

Switch the main power on/off.

② AC IN

AC power input from the wall outlet.

③ RS232C IN / ④ RS232C OUT

RS232C network input / output for the loop-through function.

⑤ IR IN / ⑥ IR OUT

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

NOTES:

- This display's remote control sensor will stop working if the jack [IR IN] is connected.
- To remotely control your A/V device via this display, refer to page 18 for **IR Pass Through** connection.

⑦ AUDIO IN

Audio input for VGA source (3.5mm stereo phone).

⑧ USB PORT B

Reserve for Touch model.

⑨ HDMI1 IN / ⑩ HDMI2 IN

HDMI video/audio input.

⑪ DVI IN

DVI-I video input.

⑫ DVI OUT

DVI or VGA video output.

⑬ AUDIO OUT

Audio output to external AV device.

⑭ USB PORT

Connect to USB storage for Android ADB Firmware update.

NOTE: It's for updating firmware only.

⑮ DisplayPort IN / ⑯ DisplayPort OUT

DisplayPort video input / output.

⑰ RJ-45

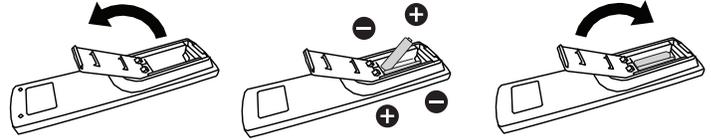
LAN control function from control center.

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.

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.

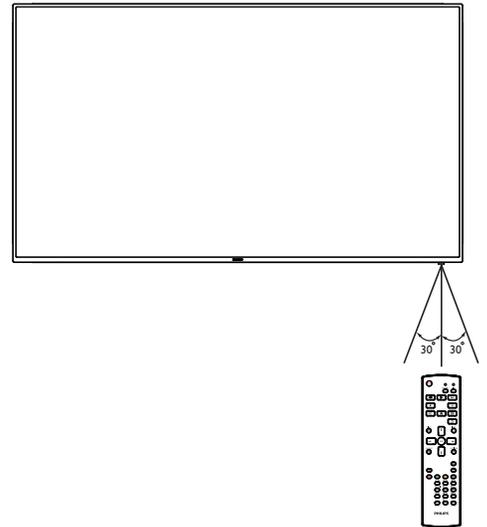
2.2.3. Operating range of the remote control

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°.

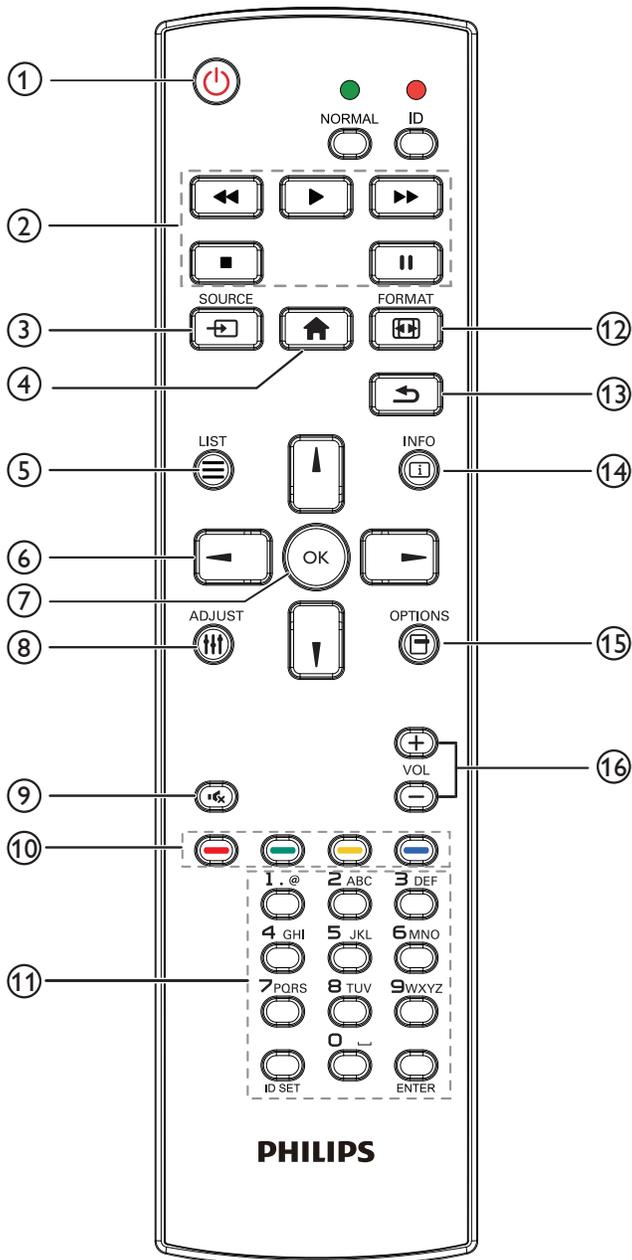
NOTE:

1. 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. Push out the lens to have better remote control performance and easy to observe the light information of power status.
3. Pull back the lens before mounting the display for video wall application.
4. Pull/Push the lens until hearing the click sound.



2.3. Remote Control

2.3.1. General functions



① **[POWER] POWER button**

Turn the power On/Off.

② **[PLAY] buttons**

Control playback of media files.(for Media Input only)

Freeze feature

Pause: hot key for freezing all inputs content.

Play: hot key for unfreezing all input content.

③ **[SOURCE] SOURCE button**

Root Menu: Go to the OSD of Video source.

④ **[HOME] HOME button**

Root Menu: Go to the OSD of Main Menu.

Others: Exit from the OSD.

⑤ **[LIST] 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] 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] ADJUST button**

Go to the OSD of Auto Adjust (forVGA only).

⑨ **[MUTE] MUTE button**

Sound mute on or off.

⑩ **[COLOR] COLOR buttons**

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

[GREEN] Hot key 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] FORMAT button**

Change Image Zoom Mode [Full][4:3][1:1][16:9][21:9][Custom].

⑬ **[BACK] BACK button**

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

⑭ **[INFO] INFO button**

Show Information OSD.

⑮ **[OPTIONS] OPTIONS button**

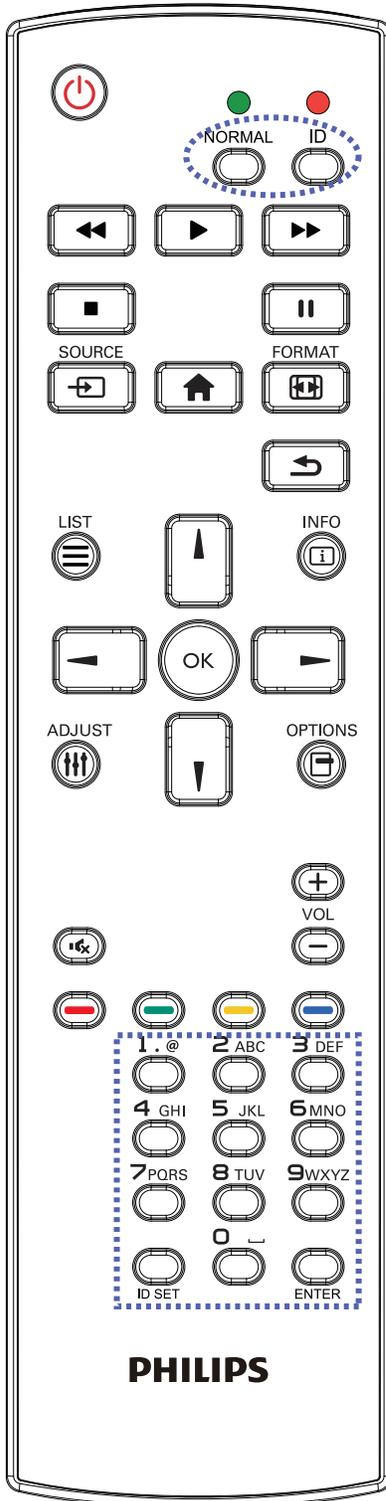
Reserved.

⑯ **[VOLUME] VOLUME button**

Adjust volume level.

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.

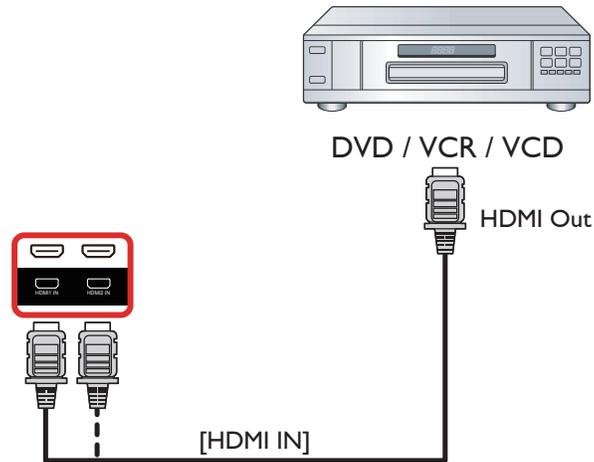
NOTE:

- 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.

3. Connecting External Equipment

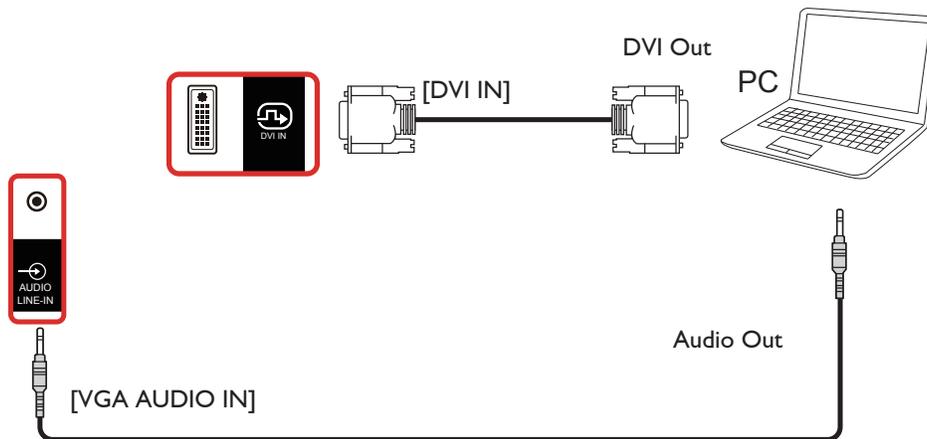
3.1. Connecting External Equipment (DVD/VCR/VCD)

3.1.1. Using HDMI video input

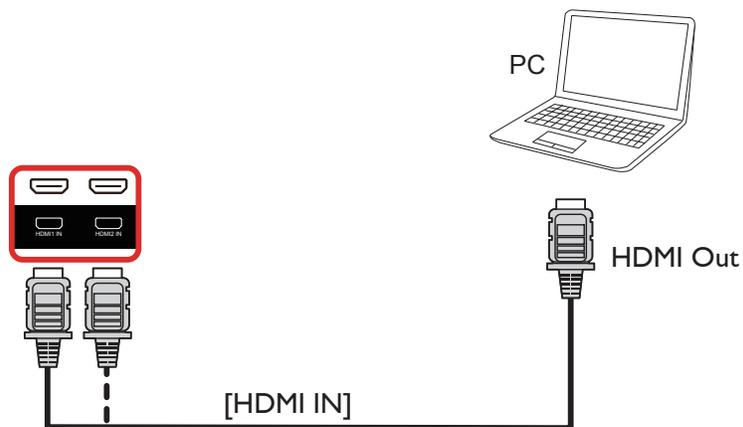


3.2. Connecting a PC

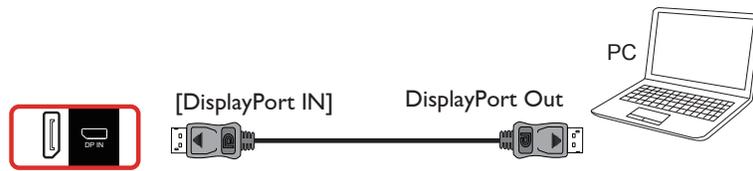
3.2.1. Using DVI input



3.2.2. Using HDMI input

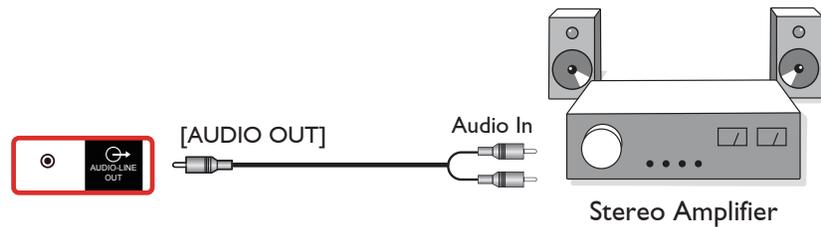


3.2.3. Using DisplayPort input



3.3. Connecting Audio Equipment

3.3.1. Connecting an external audio device

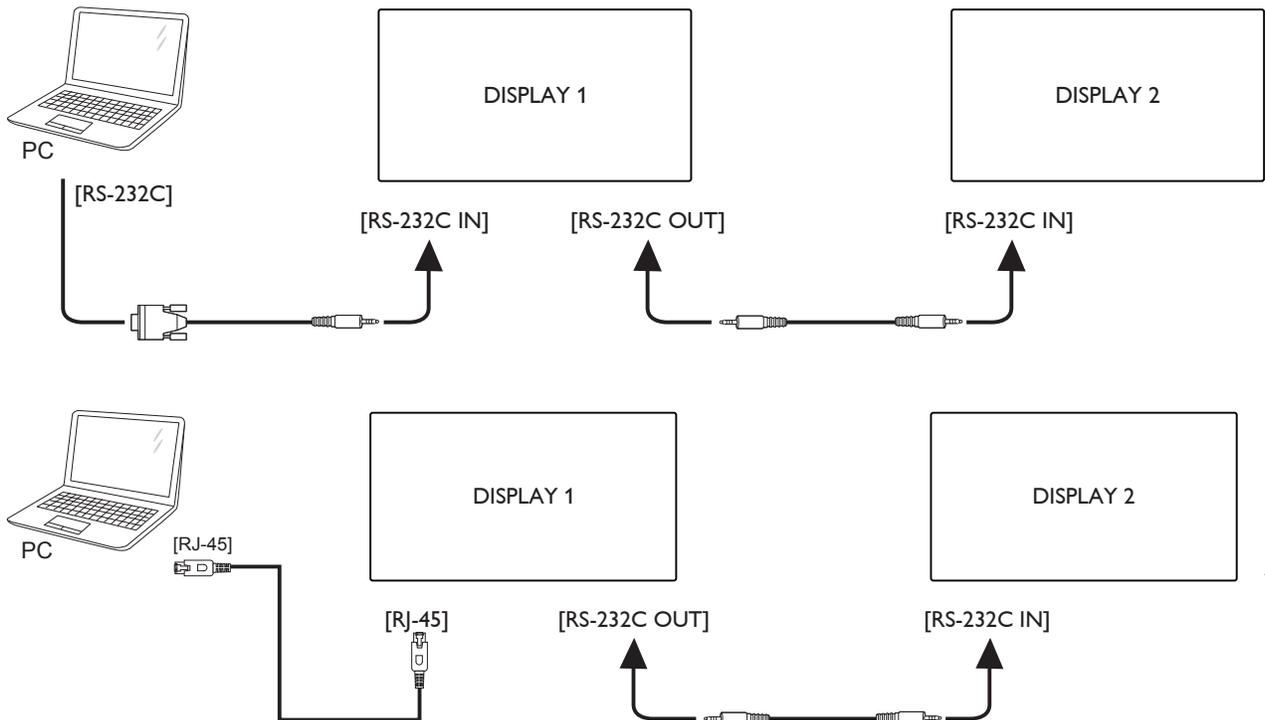


3.4. Connecting Multiple Displays in a Daisy-chain Configuration

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

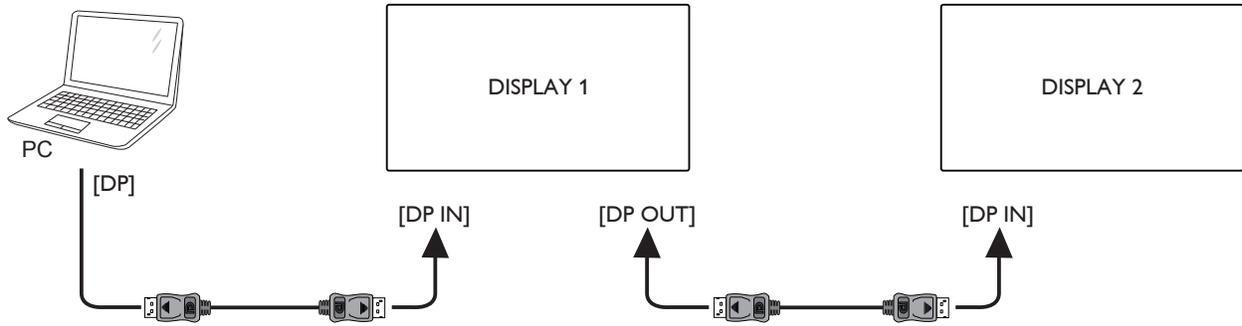
3.4.1. Display control connection

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

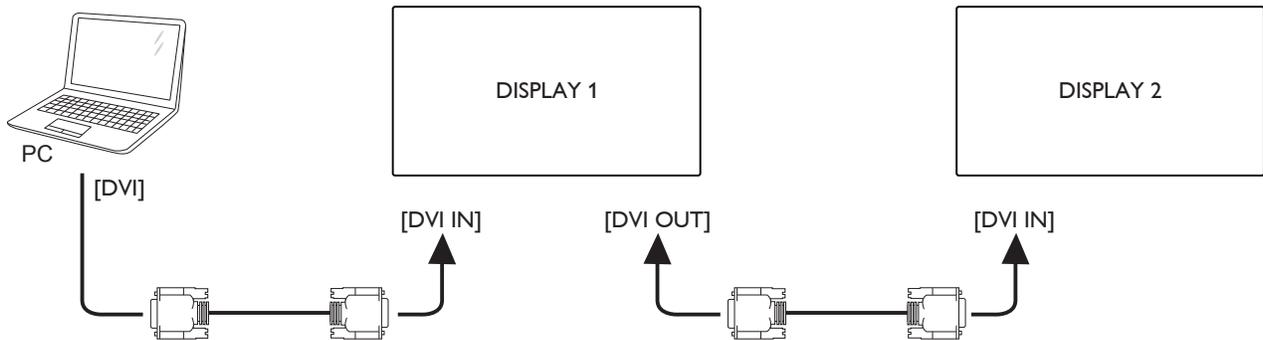


3.4.2. Digital video connection

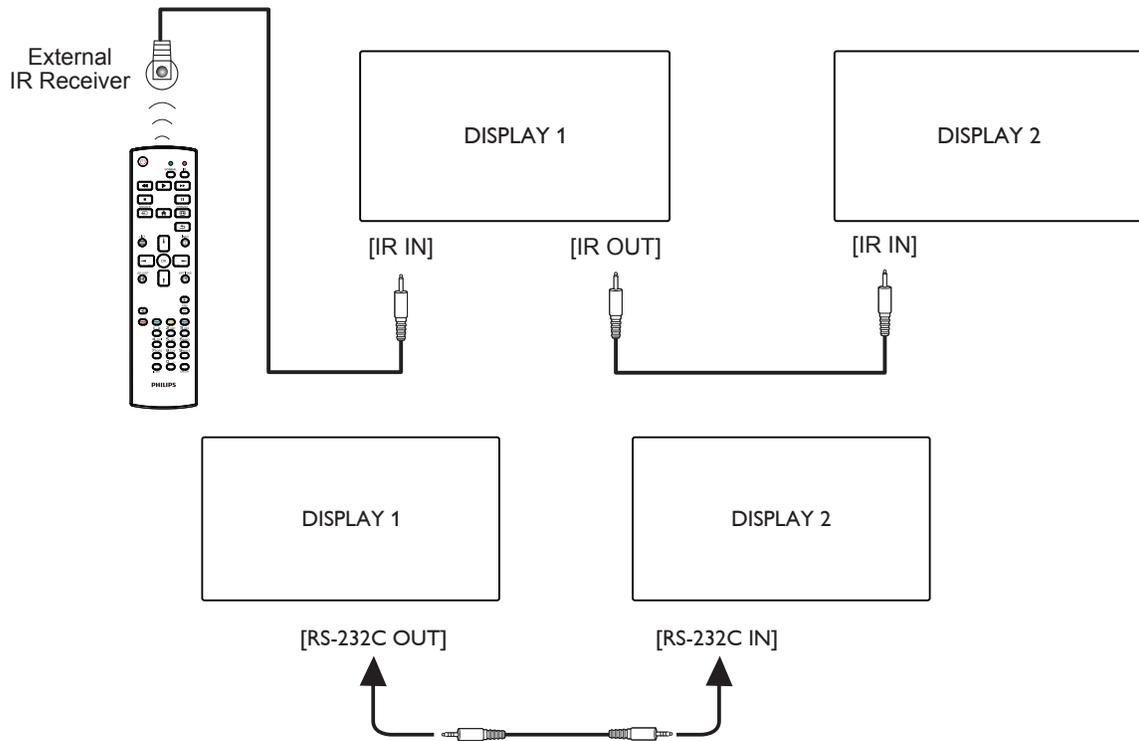
Connect the [DP OUT] connector of DISPLAY 1 to the [DP IN] connector of DISPLAY 2.



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



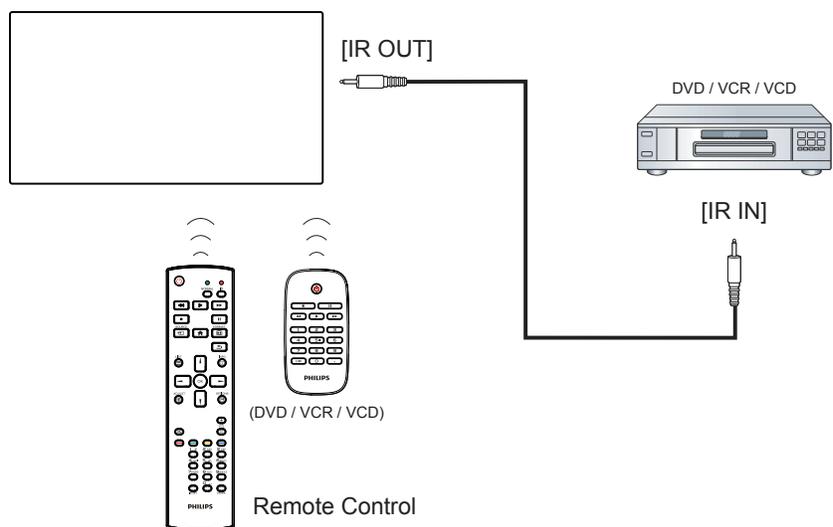
3.5. IR connection



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



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 [M] or [N] 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:

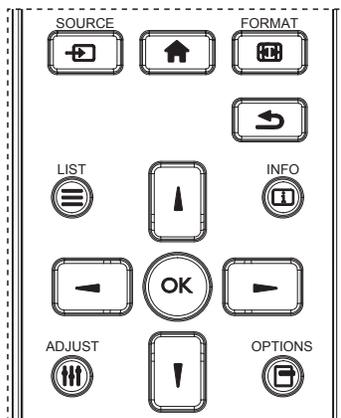
1. Press [FORMAT] button to select a picture format.
 - PC mode: {Full} / {4:3} / {Real} / {21:9} / {Custom}.
 - Video mode: {Full} / {4:3} / {Real} / {21:9} / {Custom}.

5. OSD Menu

An overall view 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 [HOME] button on the remote control to display the OSD menu.
2. Press [M] or [N] button to choose the item you want to adjust.
3. Press [OK] or [LEFT] button to enter the submenu.
4. In the submenu, press [M] or [N] button to toggle among items, press [LEFT] or [RIGHT] button to adjust settings. If there is a submenu, press [OK] or [LEFT] button to enter the submenu.
5. Press [RETURN] button to return to the previous menu, or press [HOME] button to exit the OSD menu.

NOTES:

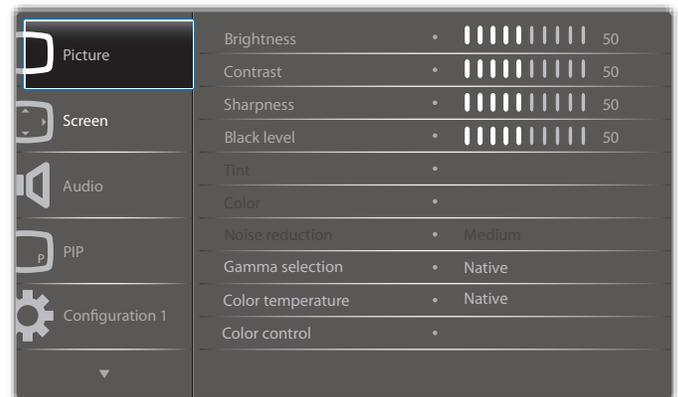
- When there is no OSD menu on the screen, press [M] to display the menu of {Smart picture}.
- When there is no OSD menu on the screen, press [N] to display the menu of {Audio source}.

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 choose the item you want to adjust.
3. Press [+] button to enter the submenu.
4. In the submenu, press [▲] or [▼] button to toggle among 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 press [MENU] button several times to exit the OSD menu.

5.2. OSD Menu Overview

5.2.1. Picture menu



Brightness(Picture)

Adjust the overall image and background screen brightness(backlight).

Contrast

Adjust the image contrast ratio for the input signal.

Sharpness

This function is digitally capable to keep crisp image at any timings. It is adjustable to get a distinct image or a soft one as you prefer and set independently for each picture mode.

Black level

Adjust the image brightness for the background.

NOTE: sRGB picture mode is standard and cannot be changed.

Tint(Hue)

Adjust the tint of the screen.

Press + button the flesh tone color becomes greenish.

Press - button the flesh tone color becomes purplish.

NOTE: VIDEO mode only.

Color(Saturation)

Adjust the color of the screen.

Press + button to increase color depth.

Press - button to decrease color depth.

NOTE: VIDEO mode only

Noise Reduction

Adjust the noise reduction level.

Gamma selection

Select a display gamma. It refers to the brightness performance curve of signal input. Choose from {Native} / {2.2} / {2.4} / {s gamma} / {D-image}.

NOTE: sRGB picture mode is standard and cannot be changed.

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.

CCT	10000° K	9300 ° K	7500 ° K	6500 ° K	5000 ° K	4000 ° K	3000 ° K
X	0.279 ± 0.030	0.283 ± 0.030	0.299 ± 0.030	0.313 ± 0.030	0.346± 0.030	0.382± 0.030	0.440± 0.030
Y	0.292 ± 0.030	0.298 ± 0.030	0.315 ± 0.030	0.329 ± 0.030	0.359± 0.030	0.384± 0.030	0.403± 0.030

Color control

The color levels of red, green, and blue are adjusted by the color bars.
R: Red gain, G: Green gain, B: Blue gain.

Smart picture

PQ setting

PC mode: {Standard} / {Highbright} / {sRGB}.

Video mode: {Standard} / {Highbright} / {Cinema}.

Smart Contrast

Auto detect black data and white data on content and set suitable backlight.

Surface Ratio	Backlight Setting
5%-90%	(MaxBacklight-MinBacklight)* Surface Ratio/100
<5%	Min Backlight
>90%	Max Backlight

Smart power

Smart Power control is not relative to brightness control:

- Initial setting Brightness
70 (in the range from 0-100)
Power consumption 70% of maximum power consumption
- Smart Power
OFF: no adaptation
MEDIUM: 80% of power consumption relative to current settings
HIGH: 65% of power consumption relative to current settings
- Panel saving/Brightness ON: 40% of maximum power consumption
The controls settings should only be visible on its own controls. It should not have secondary effects on other controls (brightness setting changes when smart power setting has changed).

Overscan

Change the display area of the image.

ON: Set to display area about 95%.

OFF: Set to display area about 100%.

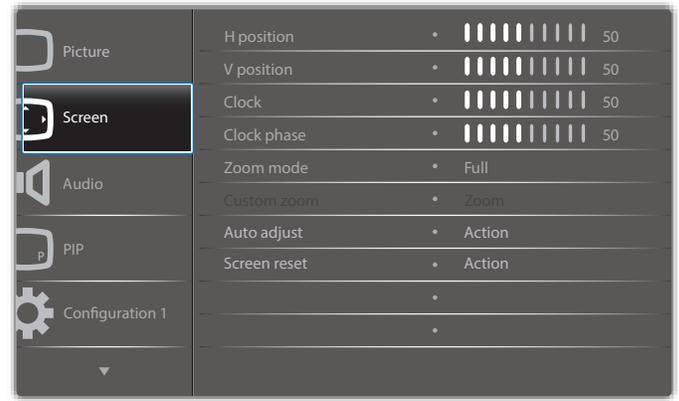
Picture reset

Reset all settings in the Picture menu.

Select "Yes" and press "SET" button to restore to factory preset data.

Press "EXIT" button to cancel and then return to the previous menu.

5.2.2. Screen menu



H position

Control Horizontal Image position within the display area of the LCD.

Press + button to move screen to the right.

Press - button to move screen to the left.

V position

Control Vertical Image position within the display area of the LCD.

Press + button to move screen upward.

Press - button to move screen downward.

Clock

Press + button to expand the width of image on the screen to the right.

Press - button to narrow the width of image on the screen to the left.

NOTE:VGA input only.

Clock phase

Improves focus, clarity and image stability by increasing or decreasing this setting.

NOTE:VGA input only

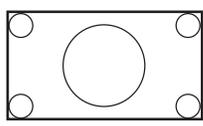
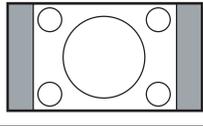
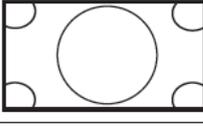
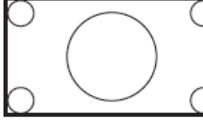
Zoom mode

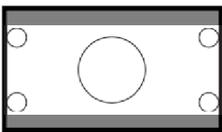
PC mode: {Full} / {4:3} / {1:1} / {16:9}/ {21:9}/ {Custom}.

Video mode: {Full} / {4:3} / {1:1} / {16:9}/ {21:9}/ {Custom}.

*Zoom mode setting is defined by input. If input in multi-windows, the setting will apply for windows with the same input.

The INFO OSD will show the latest setting.

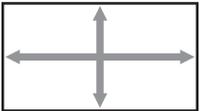
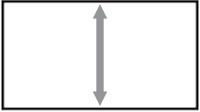
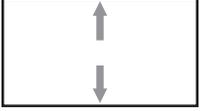
	Full This mode restores the correct proportions of pictures transmitted in 16:9 using the full screen display.
	4:3 The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture..
	1:1 This mode displays the image pixel-by-pixel on screen without scaling the original image size.
	16:9 The picture is reproduced in 16:9 format and a black band at the top and bottom.

	21:9 The picture is reproduced in 21:9 format and a black band at the top and bottom.
	Custom Choose to apply the custom zoom settings in the Custom Zoom submenu.

Custom zoom

You can use this function to further customize the zoom settings to suit the image you want to display.

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

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

Auto adjust

Press "Set" to detect and adjust H position, V position, Clock, Phase automatically.

Screen reset

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

Select "Yes" and press "SET" button to restore the factory preset data.

Press "EXIT" button to cancel and then return to the previous menu.

5.2.3. Audio menu

Picture	Balance	•		50
Screen	Treble	•		50
Audio	Bass	•		50
PIP	Volume	•		30
Configuration 1	Audio out(line out)	•		30
	Maximum volume	•		100
	Minimum volume	•		0
	Mute	•	Off	
	Audio source	•	Analog	
	Sync.Volume	•	Off	



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 to increase or decrease the audio output level.

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 from being played too loudly.

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.

Analog: audio from audio input

Digital : audio from HDMI/DVI audio.

Displayport: audio from DP.

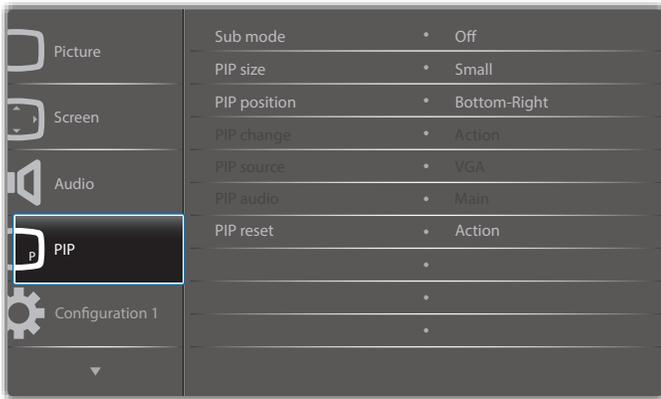
Sync. Volume

Enable/disable audio out (line out) volume adjustability to sync with internal speakers volume, but PD Internal speaker sound will be forced to be mute.

Audio reset

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

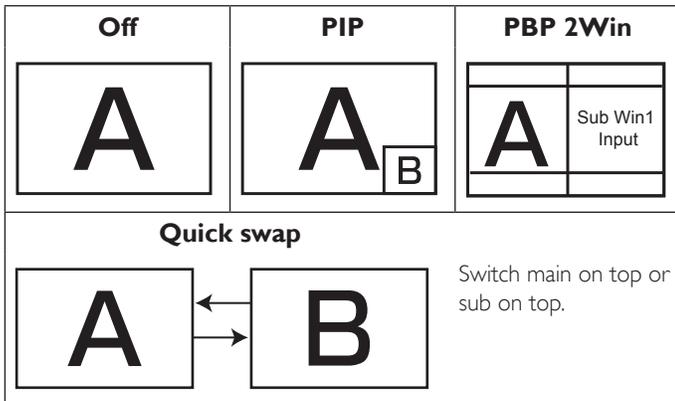
5.2.4. PIP menu



Sub mode

Select the sub mode.

Choose from: {Off} / {PIP} / {PBP} / {Quick swap} / {Custom}.



PIP size

Select the size of the sub picture in the PIP (Picture-in-Picture) mode.

Choose from: {Small} / {Medium} / {Large}.

PIP position

Select the position of the sub picture in the PIP (Picture-in-Picture) mode.

Choose from: {Bottom-Right} / {Bottom -Left} / {Top-Right} / {Top-Left}.

PIP change

Exchange Main and PIP / PBP / Quick swap input signal.

PIP source

Select the input signal for the sub picture.

PIP audio

Select the audio source in the Sub mode.

- {Main} - Select audio from the main picture
- {Sub} - Select audio from the sub picture.

PIP reset

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

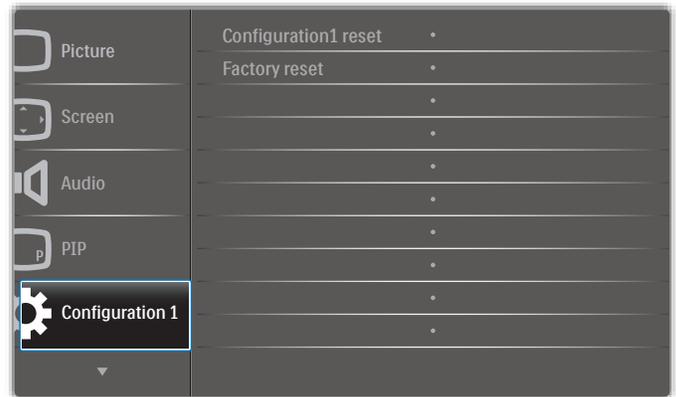
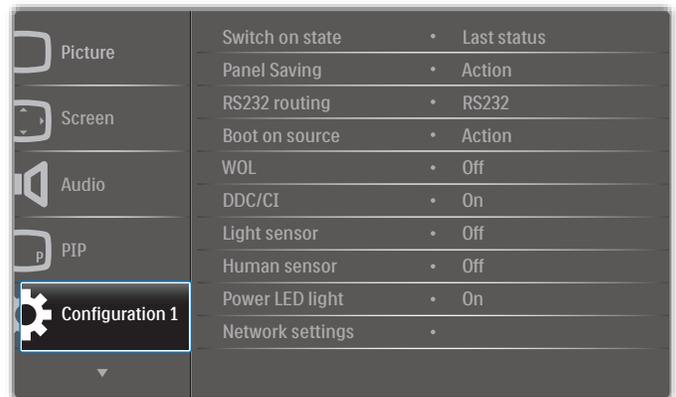
- The PIP function is available only for certain signal source combinations as shown in the table below.

	HDMI1	HDMI2	DVI	DisplayPort	VGA	Custom
HDMI1	○	×	×	○	○	×
HDMI2	×	○	×	○	○	×
DVI	×	×	○	○	○*	×
DisplayPort	○	○	○	○	○	○
VGA	○	○	○*	○	○	○
Custom	×	×	×	○	○	○

(○: PIP function available, ×: PIP function unavailable)

- The availability of the PIP function will also depend on the resolution of the input signal being used.

5.2.5. Configuration1 menu



Switch on state

Select the display status used for the next time you connect the power cord.

- {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 an appropriate level. The Brightness setting in the Picture menu will be unavailable when selected.
- **{Pixel shift}** - Select the time interval (**{Auto}** / **{10 ~ 900}** Seconds / **{Off}**) for the display to slightly expand the image size and shift the position of pixels in four directions (up, down, left, or right).

RS232 routing

Select the network control port.

Choose from: **{RS232}** / **{LAN ->RS232}**.

Boot on source

Choose to select source when boot up.

Input: select input source when bootup.

WOL

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

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

DDC/CI

Choose to turn on or off the DDC/CI communication function.

Select **{On}** for normal use.

Light sensor (require Philips accessory CRD41 External Sensor Box)

Choose to turn on or off backlight adjustment according to environment brightness.

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

Human sensor (require Philips accessory CRD41 External Sensor Box)

The Human sensor can detect if people approach the display or not.

The display will turn off backlight if it detects nothing in setting time.

The display will return to backlight on when people approach the display.

The options are:

- **{Off}** (Default), **{10 Min.}**, **{20 Min.}**, **{30 Min.}**, **{40 Min.}**, **{50 Min.}**, **{60 Min.}**

Power LED light

Choose to set power indication LED on or off.

Choose **{On}** for normal use.

Network settings

- DHCP Enable -> Cannot modify IP address/Subnet mask/Default gateway
- DHCP Disable-> Can manually input IP address/Subnet mask/Default gateway.

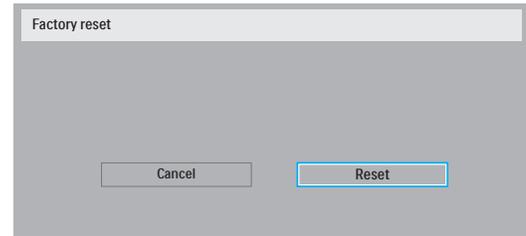
Configuration1 reset

Reset all settings in **Configuration1** menu to the factory preset values.

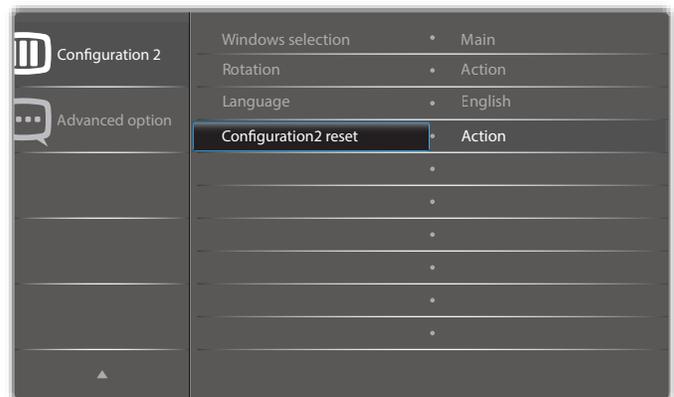
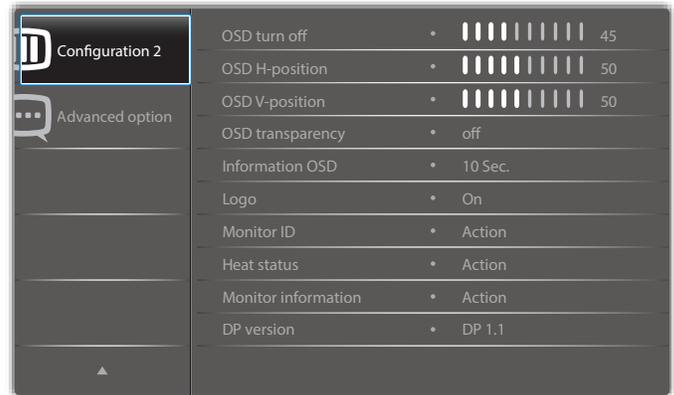
Factory reset

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

Press **[←]** or **[→]** button to select **{Reset}**, and press **[OK]** button to do the reset.



5.2.6. Configuration2 menu



OSD turn off

Set the period of time the OSD (on-screen display) menu stays on the screen.

The options are: **{0 ~ 120}** seconds.

***{0}** does not disappear automatically.

OSD H-position

Adjust the horizontal position of the OSD menu.

OSD V-position

Adjust the vertical position of the OSD menu.

OSD Transparency

Adjust OSD transparency.

- **{Off}** - Transparency off.
- **{1-100}** - Transparency level 1-100.

Information OSD

Set the period of time the information OSD is displayed on the upper right corner of the screen. The information OSD will display when input signal is changed.

The information OSD will remain on the screen with **{Off}** selection.

The options are: **{1 ~ 60}** seconds.

Logo

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

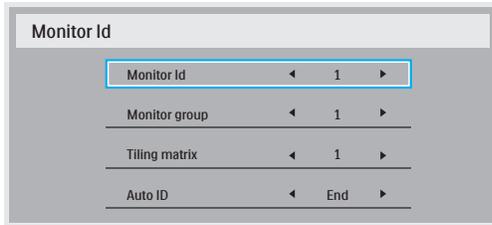
The options are:

- {Off} (Default)
- {On}

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 this display are connected. Monitor ID number range is between 1 to 255.

The option are: {Monitor group} / {Tiling matrix} / {Auto ID}



- {Monitor group}

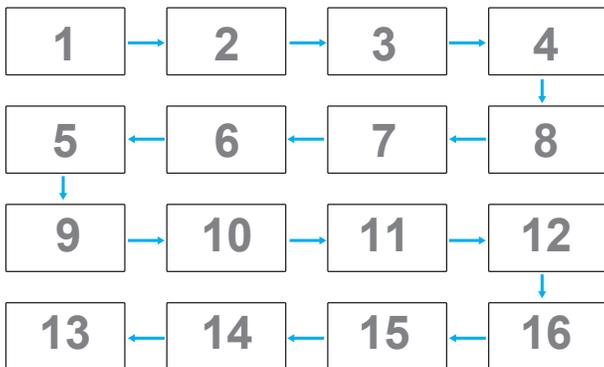
The options are: {Off} / {1-254}

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

- {Tiling matrix}

Tiling matrix number range is between 1 to 15. 1 is default setting. The {Auto ID} setup function enables setting up {Monitor ID} of connected machine according to {Tiling matrix} settings.

Example: Tiling matrix sets as 4



- {Auto ID}

The option are: {Start} / {End}. The default is {End}.

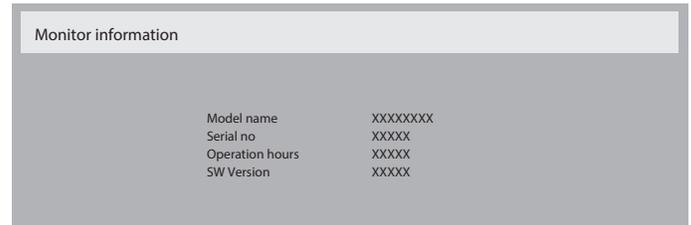
- Switch to Start option to set up IDs of machines backward from current one.
- Once the setup is completed, the option exits to End automatically.
- To use this function, serial connect all machines with RS-232 cable and set their Control ports to RS-232 too.

Heat status

This function allows you to check the thermal status at any time.

Monitor information

Shows information about your display, including model number, serial number, operating hours and software version.



DP version

DisplayPort support mode.

The options are:

- {DP 1.1} (Default) : DP 1.1 single stream(clone mode)
- {DP 1.2 SST}: DP 1.2 Single stream(clone mode)
- {DP 1.2 MST}: DP 1.2 Multi-Stream

*NOTE:

1. The DP version must be set the same for all daisy chain displays.
2. For 3840x2160, the dot clock timing should be 533MHz.
3. DP 1.1 not support 4K/60Hz timing.

Window selection

Select the window for adjusting setting. The selected window will be highlight green border.

Window selection will set to Main after power on.

The options are:

- {Main}(Default), {PIP}
- [—] Hot key for Window selection function.

Rotation

Set the rotation of Main/Sub/OSD

Auto Rotate :	Off/On	Default : Off
OSD Rotate :	Landscape/Portrait	Default : Landscape
Image Rotate:		
All :	Off/On	Default : Off
Main :	Off/On	Default : Off
Sub :	Off/On	Default : Off

Auto Rotate: {Off}, {On} when value is On, automatically detect whether the PD rotation, Off is set by OSD.

OSD Rotate: {Off}, {On} when value is on, OSD rotate 90 °, Off is restored.

All: {Off}, {On} when value is on, all Window screen rotate 90 °, Off the reference set individual window.

Main: {Off}, {On} when value is onn, Main window screen rotate 90 °, Off is restored.

Sub: {Off}, {On} when value is on, Sub1 Window screen rotate 90 °, Off is restored.

* When the Main / Sub source is the same, rotation is given priority to with Sub.

* Not supported De-Interlacing function in rotation mode.

Language

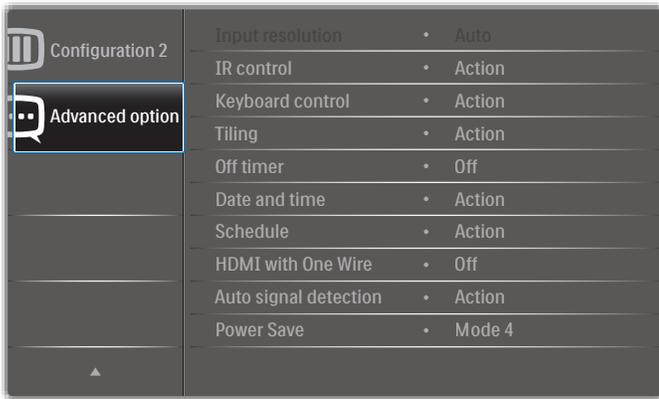
Select the language used in the OSD menu.

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/ Svenska/Suomi/Norsk/Nederlands.

Configuration2 reset

Reset all settings in Configuration2 menu to the factory preset values.

5.2.7. Advanced option menu



Input resolution

Set the resolution of the VGA input. This is only required when the display is unable to detect the VGA input resolution correctly.

NOTE: This item is functional for **VGA** input only.

The options are:

- {1024x768 / 1280x768 / 1360x768 / 1366x768}
- {1400x1050 / 1680x1050}
- {1600x1200 / 1920x1200}
- {Auto}: Determines the resolution automatically.

The selected settings will become effective after turning off the power and turning it on again.

IR control

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

- {Normal} - 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 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 the 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 [i] INFO button on the remote control for 6 (six) seconds.

Keyboard control

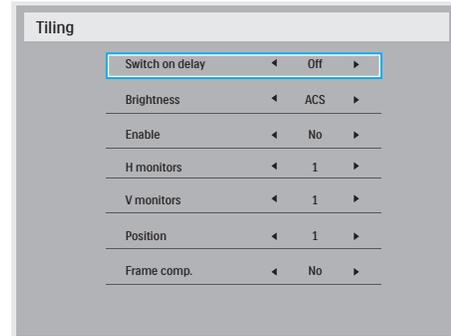
Choose to enable or disable the display keyboard (control buttons) function.

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

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 [+] and [A] buttons and hold down continuously for more than 3 seconds.

Tiling

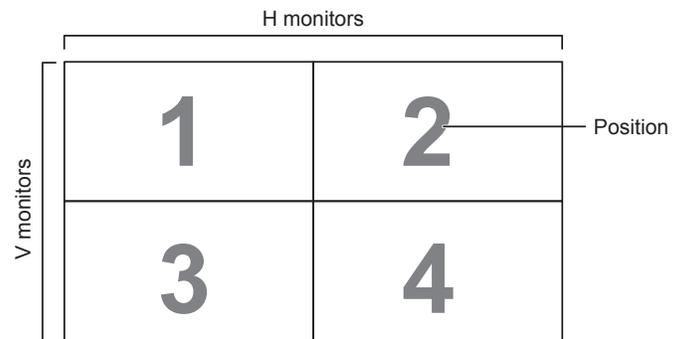
With this function you can create a single large-screen matrix (video wall) that consists of up to 225 sets of this display (up to 15-sets on the vertical and 15-sets on the horizontal sides). This function requires a daisy-chain connection.



Example: 2 x 2 screen matrix (4 displays)

H monitors = 2 displays

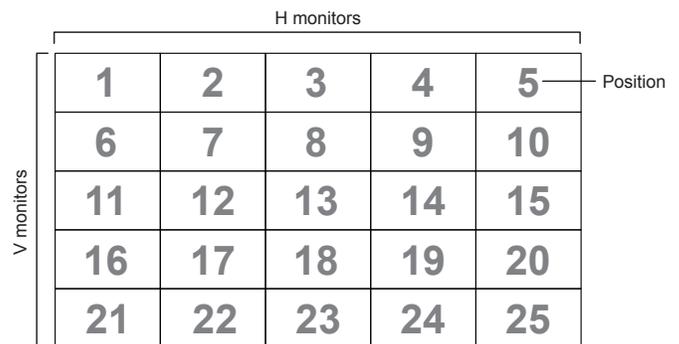
V monitors = 2 displays



Example: 5 x 5 screen matrix (25 displays)

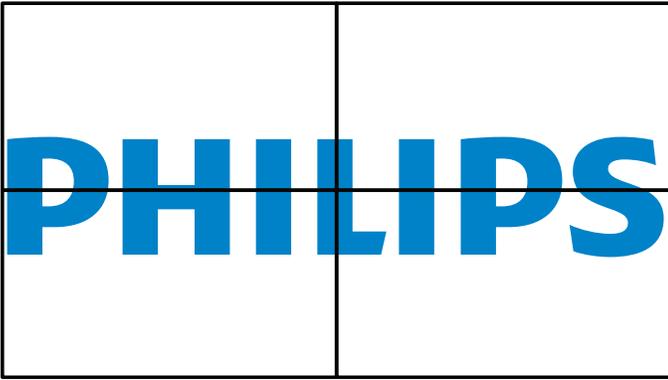
H monitors = 5 displays

V monitors = 5 displays

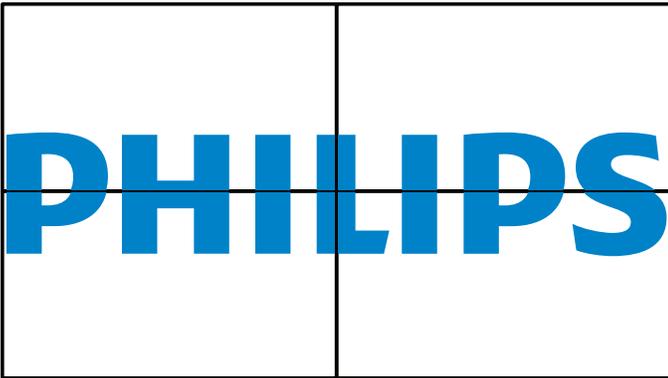


- {H monitors} - Select the number of displays on the horizontal side.
- {V monitors} - Select the number of displays on the vertical side.
- {Position} - Select the position of this display in the screen matrix.
- {Frame comp.} - Choose to turn the frame compensation function on or off. If selected {Yes}, the display will adjust the image to compensate for the width of the display bezels in order to accurately display the image.

Frame compensation - Yes



Frame compensation - No



- **{Enable}** - Choose to enable or disable the Tiling function. If enabled, the display will apply the settings in **{H monitors}**, **{V monitors}**, **{Position}**, and **{Frame comp.}**.
- **{Switch on delay}** - Set the power-on delaying time (in seconds). The default option **{Auto}** allows a sequential powering-on for each display by their ID number when multiple displays are connected. The options are: **{Off/Auto/2-255}**
- **Brightness: {Normal}/{ACS}**

{Normal}: Apply OSD brightness value (backlight)

{ACS}: Apply brightness value (backlight) which is adjusted by MIC tool. The default value before adjustment is the same as OSD brightness value, e.g., 70)

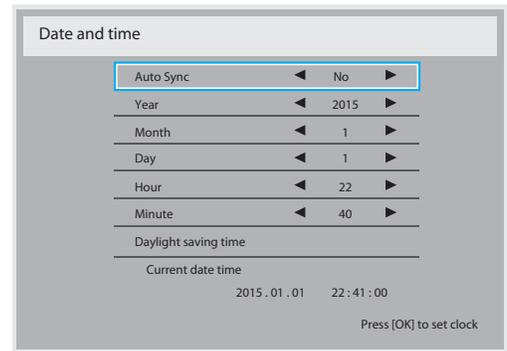
Some brightness (backlight) settings cannot be adjusted by OSD. Please refer to Picture Menu Backlight setting priority.

Off Timer

Set automatically power off time (in hours).

Date and time

Adjust the current date and time for the display's internal clock.



1. Press **[OK]** button to enter the submenu.
2. Press **[A]** or **[V]** button to toggle between **{Year}**, **{Month}**, **{Day}**, **{Hour}**, **{Minute}**, and **{Daylight saving time}**.
3. Press **[←]** or **[→]** button to adjust all settings except **{Daylight saving time}**.
4. Press **[OK]** button to enter the **{Daylight saving time}** submenu.
5. Press **[←]** or **[→]** button to select item, press **[A]** or **[V]** button to adjust.

The Daylight saving time definition and behavior:

The current implementation of daylight saving is a reminder tool for the customer which doesn't know how to adjust the clock for daylight saving on and off. It does not adjust the real time clock automatically. Problem is that there are no stable rules per region, or country when to adjust the clock. To solve this the user must be able to set the daylight saving start and stop date. When daylight saving correction is on (user selectable) then the real time clock should be adjusted at the moment in time set in the daylight saving on and off date. At daylight start date the clock should be put forward 1 hour at 2 o'clock. At daylight stop date the clock should be put back 1 hour at 2 o'clock.

The existing daylight on/off menu item should be replaced with the following menu structure:

- Menu item **<Daylight saving setup>** opens submenu containing the following items:
- Menu item **<Daylight-saving start date>** Selection item **<1st, 2nd, 3rd, 4th, last>** Sunday of selection item **<1-12 month>**
- Menu item **<Daylight-saving stop date>** Selection item **<1st, 2nd, 3rd, 4th, last>** Sunday of selection item **<1-12 month>**
- optional
- Menu item **<Correction time>** Selection item **<0.5, 1.0, 1.5, 2.0>** hour
- Menu item **<Daylight saving correction>** Selection item **<on, off>**

when "daylight saving" is "on" the real time clock would have been adjusted automatically for winter and summer time when passing the critical moment in time (eg march 29, 2009, 02.00 o'clock: time will be set 1 hour later or October 25, 2009, 02.00 o'clock: time will be set 1 hour earlier)

Schedule

This function allows you to program up to 7 (seven) different scheduled time intervals for the display to activate.

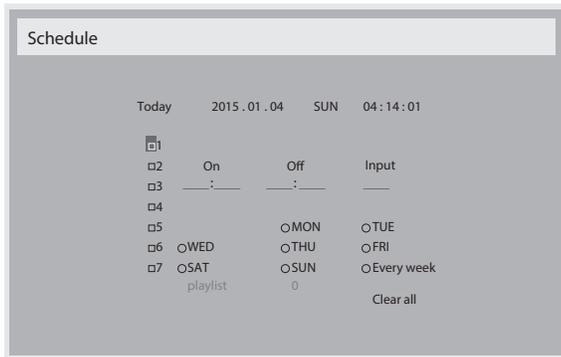
You can select:

- The time for the display to turn on and turn off.
- The days in a week for the display to activate.

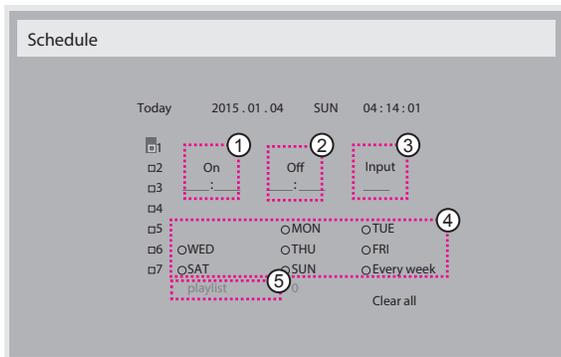
- Which input source the display will use for each scheduled activation period.

NOTE: We recommend you to set up current date and time in the **{Date and time}** menu before using this function.

1. Press **[OK]** or **[←]** button to enter the submenu.



2. Press **[▲]** or **[▼]** button to select a schedule item (item number 1 ~ 7), and then press **[OK]** button to mark it the item number:



3. Press **[←]** or **[→]** button to select the schedule:
 - ① **Power-on** schedule: Press **[▲]** or **[▼]** button to set the hour and minute for the display to turn on.
 - ② **Power-off** schedule: Press **[▲]** or **[▼]** button to set the hour and minute for the display to turn off.

Select or leave an empty "___" for both the hour and minute slot if you do not want to use this power-on or power-off schedule.

 - ③ **Input-source** selection: Press **[▲]** or **[▼]** button to select an input source. If no input source is selected, the input source will remain the same as last selected.
 - ④ **Date** schedule: Press **[←]** button to select which day in a week this schedule item will be take effect, and then press the **[OK]** button.
 - ⑤ When **Input-source** select to **USB**, enable to access **playlist** setting:
4. For additional schedule settings, press **[↻]**, then repeat the steps above. A check mark in the box next to the number of the schedule item indicates that the selected schedule is in effect.

NOTES:

- If the schedules overlap, the scheduled power-on time takes priority over scheduled power-off time.
- If there are two schedule items programmed for the same time, the highest numbered schedule takes priority. For example, if schedule items #1 and #2 both set the display to power on at 7:00 AM and off at 5:00 PM, then only schedule item # 2 will take effect.

HDMI with One Wire

CEC control.

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

Auto signal detection

Choose to let the display detect and display available signal sources automatically.

- **{Off}** - Once a signal is connected, it can only be selected manually.

If the selected input is no signal, set the display to display the image automatically according to the search order of each option.

The options are: **{All}** / **{Failover}**

- **{All}**: DP -> HDMI1 -> HDMI2 -> DVI -> VGA.
- **{Failover}**
 - Failover 1: User-defined setting. Default:HDMI 1.
 - Failover 2: User-defined setting. Default:HDMI 1.
 - Failover 3: User-defined setting. Default:HDMI 1.
 - Failover 4: User-defined setting. Default:HDMI 1.
 - Failover 5: User-defined setting. Default:HDMI 1.
 - Failover 6: User-defined setting. Default:HDMI 1..

Power Save

Power save modes

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

DC off -> Power off. LED: Red.

Power Save -> Power off, LED: Red

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

DC off -> Power off, LED: Red.

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

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

DC off -> Back light off, LED: Red

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

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

DC off -> Back light off, LED: Red

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

<p><u>Mode 3</u></p> <p>DC OFF:</p> <p>Backlight Off only</p> <p>Power Save:</p> <p>Backlight Off only</p>	<p><u>Mode 1(default)</u></p> <p>DC OFF:</p> <p>Power Off</p> <p>Power Save:</p> <p>Power Off</p>
<p><u>Mode 4</u></p> <p>DC OFF:</p> <p>Backlight Off only</p> <p>Power Save:</p> <p>No signal(Backlight On)</p>	<p><u>Mode 2</u></p> <p>DC OFF:</p> <p>Power Off</p> <p>Power Save:</p> <p>Power Saving</p>

DC off/on: Press power button by RC

Scalar FW Update

Update scalar FW by USB.

Advanced option reset

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

1. Press [OK] or [↵] button to enter the submenu.
2. Press [←] or [→] button to select {Reset} and press the [OK] button to restore settings to factory preset values.
3. Press the [↶] button or select {Cancel} and press the [OK] button to cancel and then return to the previous menu.

6. 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	1400x1050	82.278	74.867
38	CVT Red. Blanking	1600x900	55.54	60.000
39	VESA	1600x1200	75	60
40	CVT1.76MW	1680x1050	65.29	59.954
41	CVT1.76MW-R	1680x1050	64.674	59.883
42	CVT 2.3MA-R	1920x1080	66.587	59.934
43	VESA Standard VDMTREV	1920x1080	67.5	60.000
44	CVT1960H	1920x1080	67.1584	59.963
45	VSC1960H	1920x1080	67.08	60
46	CVT 2.3MA-R	1920x1200	74.038	59.950

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	50Hz	576i	except DVI
7		576p	
8		720p	
9		1080i	
10		1080p	

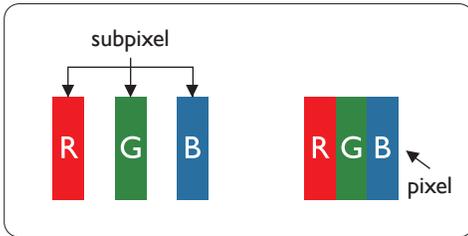
- The PC text quality is optimum in FHD 1920 × 1080, 60Hz.
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal frequency-select 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.
- YCbCr 444 BT2020 Non-const is not supported.

7. 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.

7.1. Pixels and Sub-Pixels



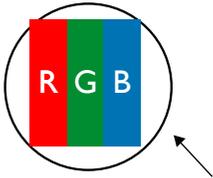
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

7.2. 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"?

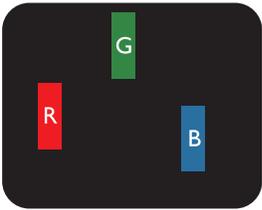
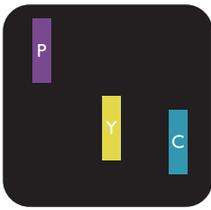
One or more defective, adjacent sub-pixel are defined as one "dot". The no. of defective sub-pixels are not relevant to define a defective dot. This means that a defective dot can consist of one, two or three defective sub-pixels which can be dark or lit.



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

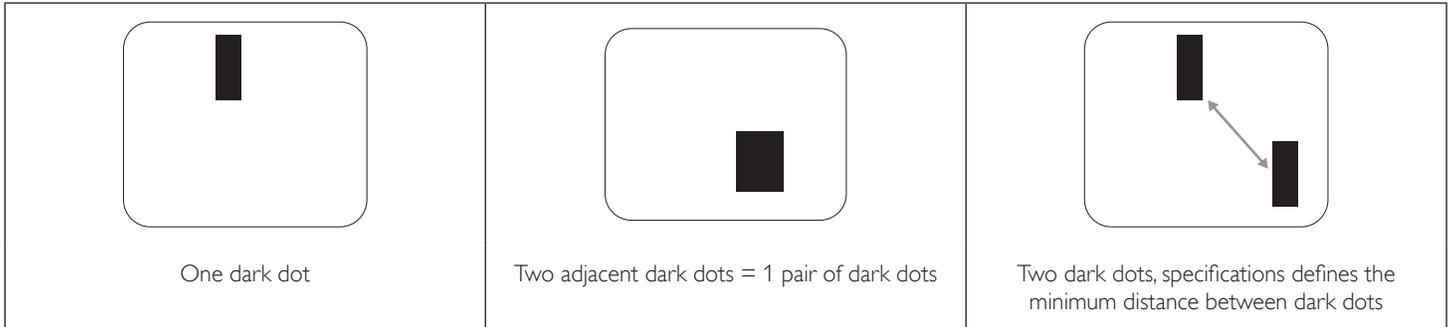
7.3. Bright Dot Defects

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

 <p>One lit red, green or blue sub pixel</p>	 <p>Two adjacent lit sub pixels: Red + Blue = Purple Red + Green = Yellow Green + Blue = Cyan (Light Blue)</p>	 <p>Three adjacent lit sub pixels (one white pixel)</p>
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7.4. 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:



7.5. 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

7.6. 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

7.7. 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

8. Cleaning and Troubleshooting

8.1. Cleaning

Caution When Using the Display

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

Front Panel Cleaning Instructions

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

Cabinet Cleaning Instructions

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

8.2. Troubleshooting

Symptom	Possible Cause	Remedy
No picture is displayed	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. The signal cable is not connected properly. 2. The input signal is beyond the capabilities of the display. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Make sure that both video inputs and sound inputs are connected correctly. 2. Press [+] or [-] button to hear sound. 3. Switch MUTE off by using the [MUTE] button. 4. Connect external speakers and adjust the volume to a suitable level.
Some picture elements do not light up	Some pixels of the display are off.	This display is designed using an extremely high level of precision technology; however, sometimes some pixels of the display may not display. This is not a malfunction..
After-Images can still be seen on the display after the display is powered off. (Examples of still pictures include logos, video games, computer images, and images displayed in 4:3 normal mode)	A still picture is displayed for an over extended period of time	Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain on the display.

<p>How to setup the settings in the menu to control all the monitors at the same time and individually via RC?</p>	<p>Daisy chained by RS232 and no IR cable</p>	<p>1.The first display sets as "Primary" on OSD (Advanced option/IR control item), others set as "Secondary".</p> <p>2.The setup OSD will show on top left side of the display.(Toggle MENU will show again if it disappear)</p> <p>3. Default setting: ID NO: 0, GP NO: 0, this setting can control all displays by IR.</p> <p>The "+", "-" can change "ID NO" to control signal display by "Monitor ID".</p> <p>The "UP", "DOWN" can change "GP NO" to control multi-display by "Group ID".</p> <p>*The first display is always controlled by IR.</p>
<p>How is the RC working?</p>	<p>Daisy chain: no connection of RS232 and IR cable</p>	<p>No setting is required. Connect with IR cables and control by IR.</p> <p>*This may cause out-of-synchronism phenomenon. It is suggested to use the above settings with RS-232 cable.</p>

9. Technical Specifications

Display:

Item	Specifications			
	32BDL4031D	43BDL4031D	49BDL4031D	55BDL4031D
Screen Size (Active Area)	800.1 mm / 31.5 inches	1080 mm / 42.5 inches	1232 mm / 48.5 inches	1387 mm / 54.6 inches
Aspect Ratio	16:9	16:9	16:9	16:9
Number of pixels	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)
Pixel pitch	0.36375 (H) × 0.36375 (V) [mm]	0.4902 (H) × 0.4902 (V) [mm]	0.55926 (H) × 0.55926 (V) [mm]	0.630 (H) × 0.630 (V) [mm]
Displayable colors	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors
Brightness (typical)	450 cd/m ²	450 cd/m ²	450 cd/m ²	450 cd/m ²
Contrast ratio (typical)	1100:1	1100:1	1100:1	1100:1
Viewing angle	178 degrees	178 degrees	178 degrees	178 degrees

In/Out Terminals:

Item		Specifications
Speaker Output	Internal Speakers	10W (L) + 10W (R) [RMS]/8Ω 82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	3.5mm phone jack × 1	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	3.5mm phone jack × 1	0.5V [rms] (Normal) / 2 Channel (L+R)
RS232	2.5mm Phone jack × 2	RS232 in / RS232 out
RJ-45	RJ-45 Jack × 1 (8 pin)	100 baseT
HDMI Input	HDMI Jack × 2 (Type A) (19 pin)	Digital RGB:TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 × 2160/30 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
Displayport in/out	Displayport Jack × 2 (20 pin)	Digital RGB:TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 × 2160/60 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 × 1080/60 Hz (WUXGA)
DVI-I (DVI-D & VGA) Output	DVI-I Jack × 1 (29 pin)	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 × 1080/60 Hz (WUXGA)
USB Input	USB2.0 TypeA ×1 USB3.0 TypeA ×1	USB2.0 USB3.0

General:

Item	Specifications			
	32BDL4031D	43BDL4031D	49BDL4031D	55BDL4031D
Power Input	100 - 240V~, 50 - 60Hz	100 - 240V~, 50 - 60Hz	100 - 240V~, 50 - 60Hz	100 - 240V~, 50 - 60Hz
Power Consumption (Max)	110 W	120 W	130 W	150 W
Power Consumption (typ.)	60 W	65 W	75 W	85 W
Power Consumption (Standby & Off)	<0.5 W	<0.5 W	<0.5 W	<0.5 W
Dimensions (Without Stand) [W x H x D]	724.8 x 424.3 x 64.1 mm	965.0 x 559.3 x 45.5 mm	1097.6 x 633.9 x 45.5 mm	1233.4 x 710.3 x 45.5 mm
Weight (Without Stand)	6.15 Kg	10.4 Kg	14.8 Kg	18.0 Kg
Weight (With Stand)	8.25 Kg	14.5 Kg	18.9 Kg	22.1 Kg
Gross Weight	8.50 Kg	14.7 Kg	20.0 Kg	25.4 Kg
Energy Efficiency Class	B	A	A	A ⁺
Visible Screen Size	800.1 mm / 31.5 inches	1080 mm / 42.5 inches	1232 mm / 48.5 inches	1387 mm / 54.6 inches
On Mode Power Consumption (W)	55 W	59 W	69 W	85 W
Annual Energy Consumption (kWh)	81 kWh	86 kWh	101 kWh	124 kWh
Standby Power Consumption (W)	0.50 W	0.50 W	0.50 W	0.50 W
Off Mode Power Consumption (W)	0 W	0 W	0 W	0 W
Display Resolution (Pixels)	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Network Standby (W)	2 W	2 W	2 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



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